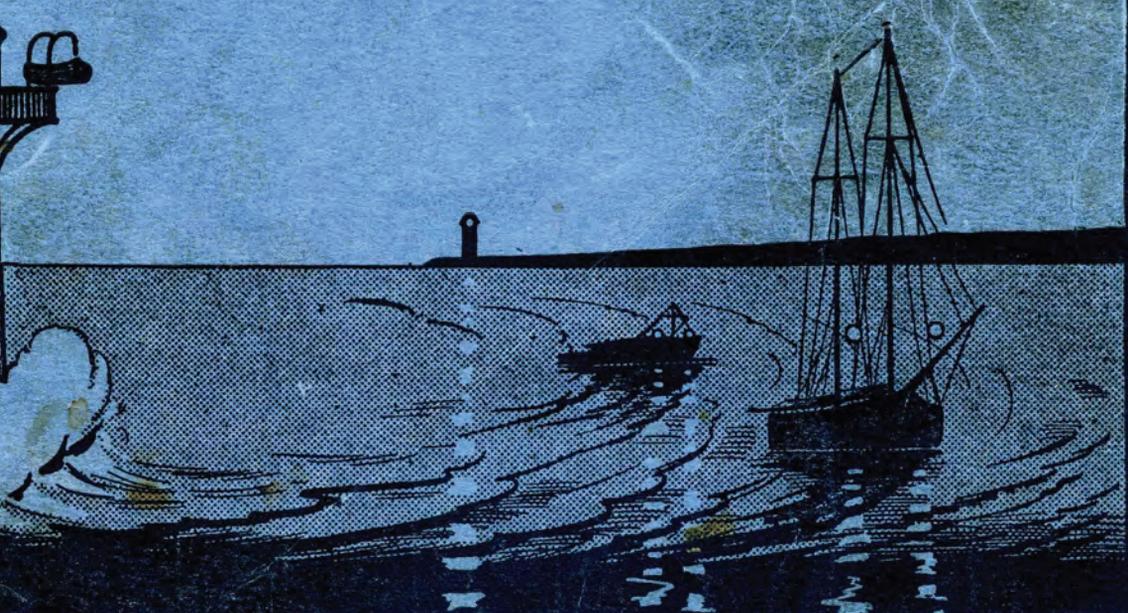




# PERKO

**CATALOG 75**  
**1936**



**Perkins Marine Lamp & Hardware Corp.**  
1943 Pitkin Avenue      Brooklyn, N. Y.



# Perkins Marine Lamp And Hardware Corp.

(Incorporated 1917)

1943 Pitkin Ave., Brooklyn, N. Y.

Manufacturers of

Running Lights, Searchlights, Binnacles, Steering Wheels, Stoves, Gear Pumps,  
Air Whistles, Toilets, Lavatories, Yacht Blocks, Brass and  
Galvanized Marine Hardware and Sheet Metal Specialties  
of Every Description for All Types of Boats from  
Canoes to Ocean Liners

## Catalog No. 75

1936



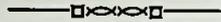
### Branch Offices

231 SANSOME ST.  
SAN FRANCISCO, CAL.  
1027 MAGAZINE ST.  
NEW ORLEANS, LA.

P. O. BOX 1257  
TAMPA, FLORIDA

202 TAFT BLDG.  
SEATTLE, WASH.

## FOREWORD AND GENERAL INFORMATION

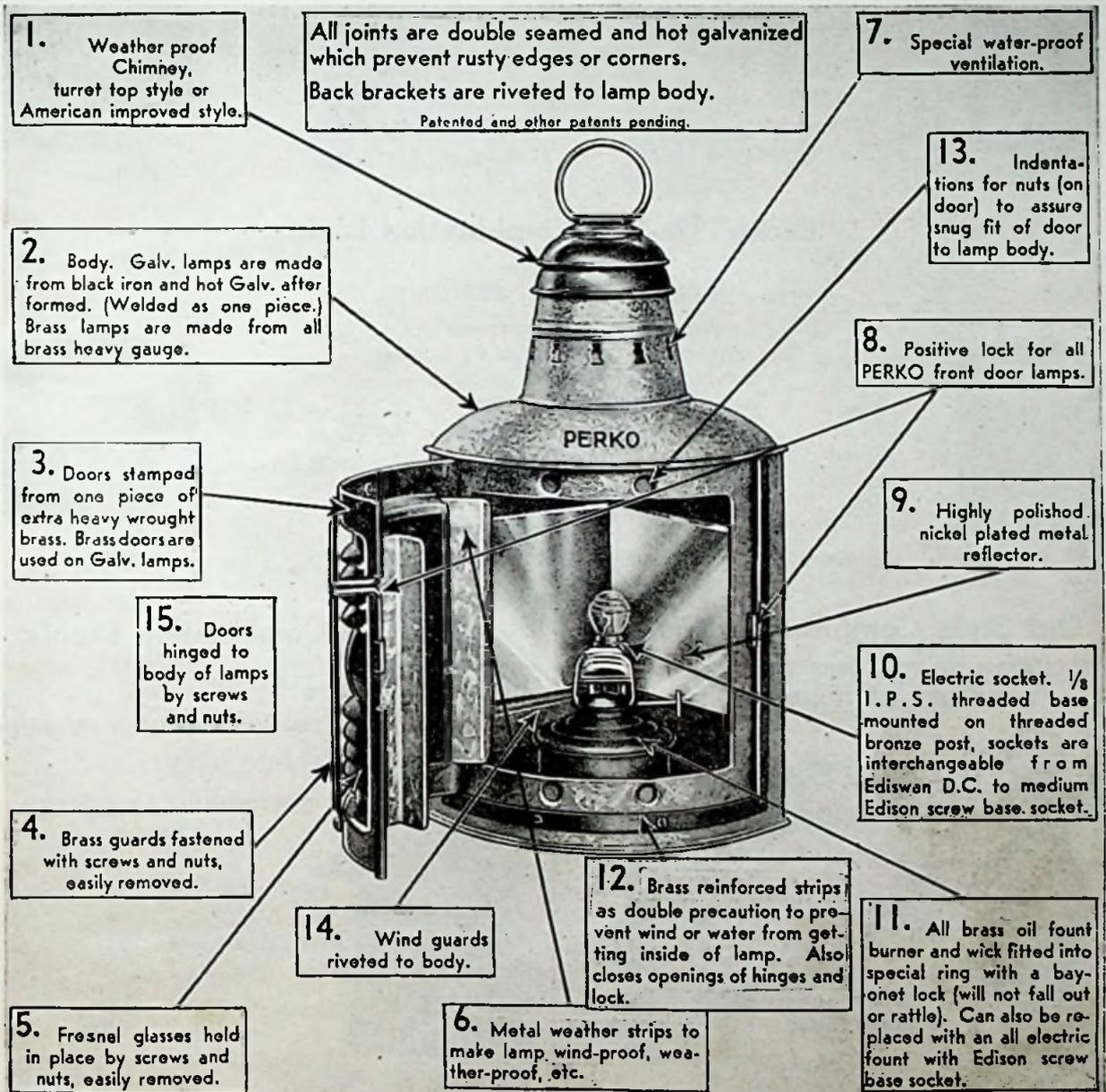


This catalog presents our full line of marine equipment to date, and has been arranged for convenient reference by grouping the material according to its application in the marine field. We have added a number of new items to our line, and this catalog contains approximately thirty pages more than our 1935 issue. We have made tremendous strides in the marine equipment field, and are not exaggerating when we claim that we are the fastest growing manufacturing organization in that field. The "PERKO" trade mark is now known throughout the world in maritime circles, and this expansion would not have been possible if we had not adhered strictly to our most stringent rule of high quality and quick service, and we guarantee to continue that course.

|                          |  |
|--------------------------|--|
| PRICES<br>AND TERMS      | Prices in this catalog are subject to change without notice and are all F. O. B. New York, unless quoted otherwise. Terms are 30 days net; 2% if payment is sent 10 days from date of invoice.   |
| GUARANTEE                | Every item bearing our trade-mark is guaranteed free from defects at time of shipment. In case of defect, adjustments will and repairs have not been attempted by other than our own gladly be made, provided the material is returned to our factory workmen. |
| RETURN<br>GOODS          | Material made to order is not returnable. Stock material is only returnable when permission has been granted by us, and is subject to a 10% handling charge.   |
| WEIGHTS                  | The weights given in this catalog are not guaranteed, but have been carefully determined and should be sufficient for general purposes.  |
| RATING                   | Orders from firms unknown to us and having no satisfactory commercial rating must be accompanied by cash or satisfactory references. C. O. D. shipments will be made if a 25% deposit is sent with order.  |
| SHIPPING<br>INSTRUCTIONS | Customers should send specific shipping instructions. But if this is not done, we will use our own judgment in selecting route.  |
| EXPORT<br>ORDERS         | We are thoroughly familiar with the proper methods of handling orders and shipments to all parts of the world, and guarantee to do so to your satisfaction.  |



A Diagram That Shows a Few of the Many Reasons Why "Perko" De-Lite Lights Are the Most Practical and Desirable of All Marine Running Lights



"PERKO" DE-LITE LIGHTS ARE PATENTED AND OTHER PATENTS PENDING  
NONE GENUINE WITHOUT THE "PERKO" TRADE MARK



**"Perko" De-Lite Combination Lights**

TURRET TOP  
FOR CLASS ONE BOATS—LESS THAN 26 FEET IN LENGTH  
OIL AND ELECTRIC

Green Lens for Starboard, Red Lens for Port

Height, less ring, 9 3/8 inches

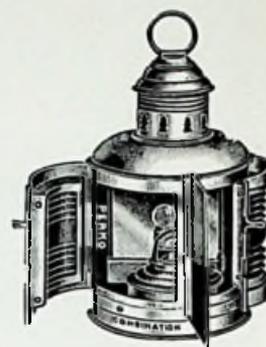
Measurements of base, 5 inches x 5 1/2 inches

Size of lens, 3 3/8 inches x 3 3/8 inches

Weight, 3 pounds



(Closed)



(Opened)

FIG. 0-1

|                    |                           |                          |                            |
|--------------------|---------------------------|--------------------------|----------------------------|
| Galvanized<br>Each | Polished<br>Brass<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each |
| \$5.00             | \$6.50                    | \$7.50                   | \$10.00                    |

**"Perko" De-Lite Combination Lights**

FLAT TOP  
CLASS 1—OIL AND ELECTRIC

Height, less ring, 6 1/2 inches

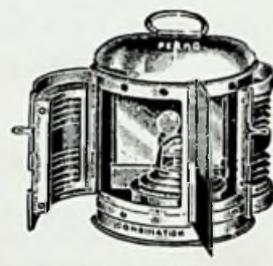
Measurements of base, 5 inches x 5 1/2 inches

Size of lens, 3 3/8 inches x 3 3/8 inches

Weight, 2 1/2 pounds



(Closed)



(Opened)

FIG. 0-10

|                    |                           |                          |                            |
|--------------------|---------------------------|--------------------------|----------------------------|
| Galvanized<br>Each | Polished<br>Brass<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each |
| \$5.00             | \$6.50                    | \$7.50                   | \$10.00                    |

**Old Style Combination Lights**

FOR CLASS 1 BOATS—LESS THAN 26 FT. LONG  
WITH RED AND GREEN LENSES



Fig. 1

Height less Ring, 9 inches.

Meas. of Base, 4 3/4 x 4 1/2 inches.

Size of Lenses, 3 3/8 x 3 3/8 inches.

Weight, 3 3/8 pounds.

|                   |                    |                           |
|-------------------|--------------------|---------------------------|
|                   | Galvanized<br>Each | Polished<br>Brass<br>Each |
| Oil or Elec. Only | \$4.25             | \$5.75                    |
| Oil and Electric  | 4.50               | 6.00                      |

**Old Style Combination Lights**

FLAT TOP  
FOR CLASS 1 BOATS—LESS THAN 26 FT. LONG  
ELECTRIC ONLY  
WITH RED AND GREEN  
LENSES

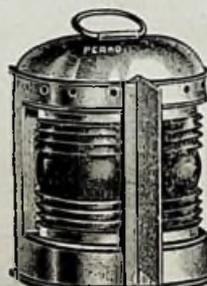


Fig. 3

Height less Ring, 6 1/4 inches.  
Meas. of Base, 4 3/4 x 4 1/2 inches.  
Size of Lenses, 3 3/8 x 3 3/8 inches.  
Weight, 2 pounds.

|                    |                           |
|--------------------|---------------------------|
| Galvanized<br>Each | Polished<br>Brass<br>Each |
| \$4.25             | \$5.75                    |

EXTRACT FROM MOTOR BOAT LAW IN EFFECT APRIL 7TH, 1930

(a) Every motor boat of class 1 shall carry the following lights:

First. A white light aft to show all around the horizon.

Second. A combined lantern in the fore part of the vessel and lower than the white light aft showing green to starboard and red to port, so fixed as to throw the light from right ahead to two points abaft the beam on their respective sides.



## "Perko" Delite Stern Lights

TURRET TOP  
FOR CLASS 1 BOATS—LESS THAN 26 FEET LONG



Fig. 0-2

CLEAR LENS



Fig. 735

Heavy guards are fastened to body by bolts, easily removed to replace broken lens.

| Height<br>Less Ring<br>Inches | Diam.<br>Base<br>Inches | Size of<br>Lens<br>Inches | Weight<br>Each<br>Pounds |
|-------------------------------|-------------------------|---------------------------|--------------------------|
| 8 5/8                         | 4 1/2                   | 3 3/8 x 3 1/2             | 2                        |

### OIL OR ELECTRIC ONLY

| Galv.<br>Each | Polished<br>Brass<br>Each | Polished<br>Copper<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each |
|---------------|---------------------------|----------------------------|--------------------------|----------------------------|
| \$3.25        | \$4.50                    | \$8.00                     | \$5.00                   | \$6.00                     |

### OIL AND ELECTRIC COMBINED

| Galv.<br>Each | Polished<br>Brass<br>Each | Polished<br>Copper<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each |
|---------------|---------------------------|----------------------------|--------------------------|----------------------------|
| \$3.50        | \$4.75                    | \$8.25                     | \$5.25                   | \$6.25                     |

With Red, Green, or Blue Lens add \$1.00 each.  
With medium screw sockets only, use same price as oil and electric.

## "Perko" Delite Anchor Lights

TURRET TOP  
FOR CLASS 2 AND 3 BOATS  
26 TO 65 FEET LONG INCLUSIVE



Fig. 0-6

CLEAR LENS

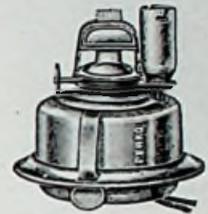


Fig. 736

Heavy guards are fastened to body by bolts, easily removed to replace broken lens.

| Height<br>Less Ring<br>Inches | Diam.<br>Base<br>Inches | Size of<br>Lens<br>Inches | Weight<br>Each<br>Pounds |
|-------------------------------|-------------------------|---------------------------|--------------------------|
| 11 3/4                        | 5 5/8                   | 4 1/4 x 4 1/4             | 3                        |

### OIL OR ELECTRIC ONLY

| Galv.<br>Each | Polished<br>Brass<br>Each | Polished<br>Copper<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each |
|---------------|---------------------------|----------------------------|--------------------------|----------------------------|
| \$4.25        | \$6.25                    | \$9.50                     | \$6.75                   | \$8.00                     |

### OIL AND ELECTRIC COMBINED

| Galv.<br>Each | Polished<br>Brass<br>Each | Polished<br>Copper<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each |
|---------------|---------------------------|----------------------------|--------------------------|----------------------------|
| \$4.50        | \$6.50                    | \$9.75                     | \$7.00                   | \$8.25                     |

With Red, Green, or Blue Lens add \$1.50 each.  
With medium screw sockets only, use same price as oil and electric.

## 10 Day Anchor Lights

OIL BURNING—IMPROVED



Fig. 596



Fig. 596-A

Guaranteed to burn at least ten days when a good grade of kerosene oil is used. Fount is the swivel type with heavy handle on bottom for turning, folds flush with bottom. Heavy brass hinge hasp prevents fount from turning or falling from the light, solid brass founts are furnished with both the galvanized and brass lights.

| Extreme<br>Height<br>Inches | Diameter<br>Fount<br>Inches | Size of Lens<br>Inches | Net<br>Weight<br>Lbs. |
|-----------------------------|-----------------------------|------------------------|-----------------------|
| 14                          | 7                           | 4 1/4 x 4 1/4          | 4                     |

### CLEAR LENS

| Galvanized<br>Each | Polished Brass<br>Each |
|--------------------|------------------------|
| \$10.50            | \$12.50                |
| 7.00               | 7.00                   |
| 7.00               | 8.00                   |

Fig. 596, Lamp Complete \$10.50  
Fig. 596A, Fount Complete 7.00  
Lamp Only Without Fount 7.00

With Red, Green, or Blue Lens add \$1.50 each.  
For Burners and Chimneys only, see Page 42.

## 30 Day Anchor Light

ELECTRIC—DRY BATTERIES  
POLISHED COPPER



Fig. 13

Uses four ordinary 1 1/2 volt dry cell batteries, enclosed in a water and air tight container sealed with a gasket and bolts.

A guaranteed 1,000 hour heavy duty bulb is furnished as regular equipment, including a watertight toggle switch.

Made of heavy gauge material and is guaranteed to stay lit for 25 to 30 consecutive days without attention.

| Extreme<br>Height<br>Inches | Diameter<br>Base<br>Inches | Size of<br>Lens<br>Inches | Weight<br>Pounds |
|-----------------------------|----------------------------|---------------------------|------------------|
| 16 1/2                      | 6 3/4                      | 4 1/4 x 4 1/4             | 5 1/2            |

### CLEAR LENS

| Polished Copper<br>Each | Bulbs Only<br>Each |
|-------------------------|--------------------|
| \$15.00                 | \$.50              |

With Red, Green, or Blue Lens add \$1.50 each.  
Prices do not include Batteries.

### "Perko" De-Lite Side Lights

TURRET TOP  
FOR CLASS 2 BOATS—26 FEET OR OVER AND LESS THAN 40 FEET IN LENGTH  
OIL AND ELECTRIC

Furnished in pairs—one green light for Starboard and one red light for Port



(Closed)

Height, less ring, 10½ inches  
Measurements of base, 5¼ inches x 5¼ inches  
Size of lens, 4¼ inches x 4¾ inches  
Net weight, per pair, 6¼ pounds

FIG. 0-4

| Galvanized Iron Per Pair | Polished Brass Per Pair | Nickel Plated Per Pair | Chromium Plated Per Pair |
|--------------------------|-------------------------|------------------------|--------------------------|
| \$8.00                   | \$10.50                 | \$12.50                | \$16.50                  |



(Opened)

### "Perko" De-Lite Bow Lights

TURRET TOP  
CLASS 2—OIL AND ELECTRIC

Extreme height, less ring, 10½ inches  
Size of lens, 4¼ inches x 6½ inches  
Measurements of base, 5 inches x 5½ inches  
Weight, each, 3 pounds

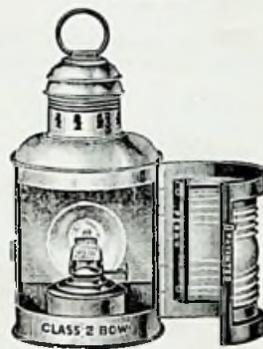
FIG. 0-5



(Closed)

With clear lens  
With colored lens

| Galvanized Iron Each | Polished Brass Each | Nickel Plated Each | Chromium Plated Each |
|----------------------|---------------------|--------------------|----------------------|
| \$4.00               | \$5.25              | \$6.25             | \$8.25               |
| 5.00                 | 6.25                | 7.25               | 9.25                 |



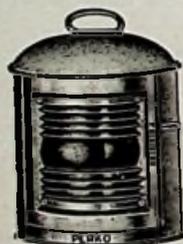
(Opened)

### "Perko" De-Lite Side Lights

FLAT TOP  
CLASS 2—OIL AND ELECTRIC

Extreme height, less ring, 7¼ inches  
Measurements of base, 5½ inches x 5½ inches  
Size of lens, 4¼ inches x 4¾ inches  
Net weight, per pair, 5½ pounds

FIG. 0-40



(Closed)

| Galvanized Iron Per Pair | Polished Brass Per Pair | Nickel Plated Per Pair | Chromium Plated Per Pair |
|--------------------------|-------------------------|------------------------|--------------------------|
| \$8.00                   | \$10.50                 | \$12.50                | \$16.50                  |



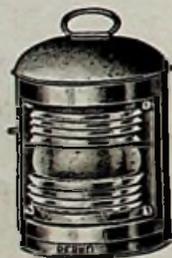
(Opened)

### "Perko" De-Lite Bow Lights

FLAT TOP  
CLASS 2—OIL AND ELECTRIC

Extreme height, less ring, 7¾ inches  
Measurements of base, 5 inches x 5½ inches  
Size of lens, 4¼ inches x 6½ inches  
Net weight, each, 2¾ pounds

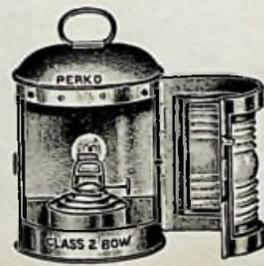
FIG. 0-50



(Closed)

With clear lens  
With colored lens

| Galvanized Iron Each | Polished Brass Each | Nickel Plated Each | Chromium Plated Each |
|----------------------|---------------------|--------------------|----------------------|
| \$4.00               | \$5.25              | \$6.25             | \$8.25               |
| 5.00                 | 6.25                | 7.25               | 9.25                 |



(Opened)

Every motor boat of class 2 shall carry the following lights:

First. A bright white light in the fore part of the vessel as near the stem as practicable, so fixed as to throw the light ten points on each side of the vessel, the fresnel lens shall not be less than 19 square inches.

Second. A white light aft to show all around the horizon.

Third. On the starboard side a green light and on the port side a red light, both to throw a light from right ahead to two points abaft the beam, the fresnel lens to be not less than 16 square inches.



## "Perko" De-Lite Side Lights

TURRET TOP

FOR CLASS 3 BOATS—40 FEET OR OVER AND NOT MORE THAN 65 FEET IN LENGTH

OIL AND ELECTRIC

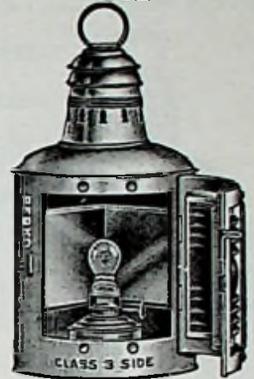


(Closed)

Size of lens, 5 1/4 inches x 5 5/8 inches  
 Height, less rings, 12 1/4 inches  
 Measurements of base, 5 5/8 inches x 5 5/8 inches  
 Weight, per pair, 8 pounds

FIG. 0-8

| Galvanized Iron Per Pair | Polished Brass Per Pair | Nickel Plated Per Pair | Chromium Plated Per Pair |
|--------------------------|-------------------------|------------------------|--------------------------|
| \$10.50                  | \$14.70                 | \$16.70                | \$23.00                  |



(Opened)

## "Perko" De-Lite Bow Lights

TURRET TOP

CLASS 3—OIL AND ELECTRIC

Size of lens, 5 1/4 inches x 7 3/4 inches  
 Height, less ring, 12 1/4 inches  
 Measurements of base, 5 1/2 inches x 6 1/2 inches  
 Weight, each, 4 pounds

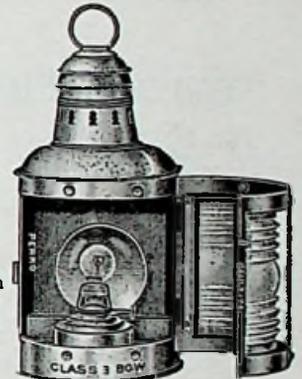
FIG. 0-9

| Galvanized Iron Each | Polished Brass Each | Nickel Plated Each | Chromium Plated Each |
|----------------------|---------------------|--------------------|----------------------|
| \$5.25               | \$7.35              | \$8.35             | \$11.50              |
| 6.25                 | 8.35                | 9.35               | 12.50                |

With clear lens  
 With colored lens



(Closed)



(Opened)

## "Perko" De-Lite Side Lights

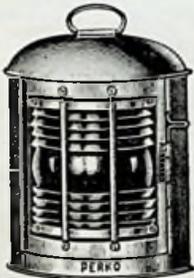
FLAT TOP

CLASS 3—OIL AND ELECTRIC

Size of lens, 5 1/4 inches x 5 5/8 inches  
 Height, less ring, 8 1/2 inches  
 Measurements of base, 5 5/8 inches x 5 5/8 inches  
 Weight, per pair, 7 pounds

FIG. 0-80

| Galvanized Iron Per Pair | Polished Brass Per Pair | Nickel Plated Per Pair | Chromium Plated Per Pair |
|--------------------------|-------------------------|------------------------|--------------------------|
| \$10.50                  | \$14.70                 | \$16.70                | \$23.00                  |



(Closed)



(Opened)

## "Perko" De-Lite Bow Lights

FLAT TOP

CLASS 3—OIL AND ELECTRIC

Size of lens, 5 1/4 inches x 7 3/4 inches  
 Height, less ring, 8 1/2 inches  
 Measurements of base, 5 1/2 inches x 6 1/2 inches  
 Weight, each, 4 pounds

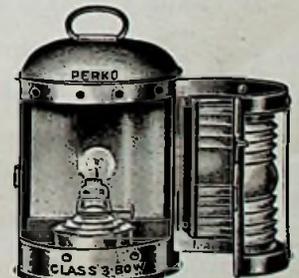
FIG. 0-90

| Galvanized Iron Each | Polished Brass Each | Nickel Plated Each | Chromium Plated Each |
|----------------------|---------------------|--------------------|----------------------|
| \$5.25               | \$7.35              | \$8.35             | \$11.50              |
| 6.25                 | 8.35                | 9.35               | 12.50                |

With clear lens  
 With colored lens



(Closed)



(Opened)

Every motor boat of class 3 shall carry the following lights:

First. A bright white light in the fore part of the vessel as near the stem as practicable, so fixed as to throw the light ten points on each side of the vessel, the fresnel lens to be not less than 31 square inches.

Second. A white light aft to show all around the horizon.

Third. On the starboard side a green light and on the port side a red light, both to throw a light from right ahead to two points abaft the beam, the fresnel lens to be not less than 25 square inches.



### Old Style Class 2 Side Lights

FOR BOATS 26 to 39 FEET LONG INCLUSIVE



Fig. 17

Size of Lenses,  $4\frac{1}{4} \times 4\frac{1}{4}$ "  
 Extreme Height,  $10\frac{1}{2}$ "  
 Measure of Base,  $4\frac{1}{4} \times 5\frac{1}{4}$ "  
 Weight, per pair,  $5\frac{1}{2}$  lbs.

|                   | Galvanized<br>Per pair | Polished<br>Brass<br>Per pair |
|-------------------|------------------------|-------------------------------|
| Oil or Elec. Only | \$6.50                 | \$9.00                        |
| Oil and Electric  | 7.00                   | 9.50                          |

### Old Style Class 2 Bow Lights

FOR BOATS 26 to 39 FEET LONG INCLUSIVE



Fig. 18

Size of Lens,  $4\frac{1}{4} \times 6\frac{1}{2}$ "  
 Extreme Height,  $10\frac{1}{2}$ "  
 Measurement of Base,  $4\frac{1}{2} \times 5"$   
 Weight Each, 3 lbs.

WITH CLEAR LENS

|                   | Galvanized<br>Each | Polished<br>Brass<br>Each |
|-------------------|--------------------|---------------------------|
| Oil or Elec. Only | \$3.25             | \$4.50                    |
| Oil and Electric  | 3.50               | 4.75                      |

With Red, Green, or Blue Lens  
 Add \$1.00 Each

### Old Style Class 3 Side Lights

FOR BOATS 40 TO 65 FEET LONG INCLUSIVE

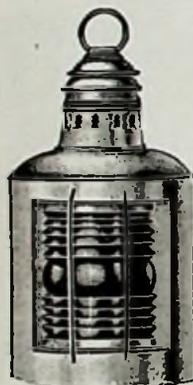


Fig. 19

Size of Lenses,  $5\frac{1}{4} \times 5\frac{3}{8}$ "  
 Extreme Height,  $12\frac{1}{2}$ "  
 Meas. of Base,  $5 \times 6\frac{1}{4}$ "  
 Weight, per Pair,  $7\frac{1}{2}$  lbs.

|                   | Galvanized<br>Per pair | Polished<br>Brass<br>Per pair |
|-------------------|------------------------|-------------------------------|
| Oil or Elec. Only | \$9.00                 | \$13.20                       |
| Oil and Electric  | 9.50                   | 13.70                         |

### Old Style Class 3 Bow Lights

FOR BOATS 40 TO 65 FEET LONG INCLUSIVE



Fig. 20

Size of Lens,  $5\frac{1}{4} \times 5\frac{3}{8}$ "  
 Extreme Height,  $12\frac{1}{2}$ "  
 Meas. of Base,  $9\frac{1}{4} \times 6"$   
 Weight Each,  $4\frac{1}{2}$  lbs.

WITH CLEAR LENS

|                      | Galvanized<br>Each | Polished<br>Brass<br>Each |
|----------------------|--------------------|---------------------------|
| Oil or Electric Only | \$4.50             | \$6.60                    |
| Oil and Electric     | 4.75               | 6.85                      |

With Red, Green, or Blue Lens  
 Add \$1.50 Each

### Old Style Stern Lights

FOR CLASS 1 BOATS—LESS THAN 26 FT. LONG



Fig. 9

Size of Lens,  $3\frac{3}{8} \times 3\frac{1}{2}$ "  
 Extreme Height, 9"  
 Diameter of Base,  $4\frac{1}{2}$ "  
 Weight Each, 2 lbs.

CLEAR LENS

|                   | Galvanized<br>Each | Polished<br>Brass<br>Each |
|-------------------|--------------------|---------------------------|
| Oil or Elec. Only | \$3.25             | \$4.50                    |
| Oil and Electric  | 3.50               | 4.75                      |

With Red, Green, or Blue Lens  
 Add \$1.00 Each

### Old Style Class 2 and 3 Anchor Lights

WITH HINGED BOTTOM

FOR BOATS 26 TO 65 FEET LONG INCLUSIVE



Fig. 10

CLEAR LENS

Size of Lens,  $4\frac{1}{4} \times 4\frac{1}{4}$ "  
 Extreme Height,  $12\frac{3}{8}$ "  
 Diameter of Base,  $5\frac{3}{8}$ "  
 Weight Each, 4 lbs.

CLEAR LENS

|                   | Galvanized<br>Each | Polished<br>Brass<br>Each |
|-------------------|--------------------|---------------------------|
| Oil or Elec. Only | \$4.25             | \$6.25                    |
| Oil and Electric  | 4.50               | 6.50                      |

With Red, Green, or Blue Globes  
 Add \$1.50 Each

Entire page with medium screw sockets only, same price as oil and electric.



**Old Style Class 2 Side Lights**

FLAT TOP

FOR BOATS 26 TO 39 FEET LONG INCLUSIVE

OIL ONLY OR OIL AND ELECTRIC

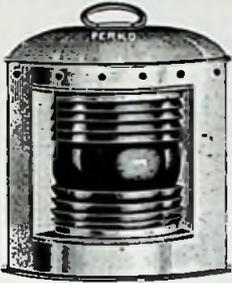


Fig. 4

Size of Lenses,  $4\frac{1}{4} \times 4\frac{1}{4}$ "  
 Extreme Height,  $7\frac{1}{4}$ "  
 Measure of Base,  $4\frac{3}{4} \times 5\frac{1}{2}$ "  
 Weight, per Pair,  $5\frac{1}{2}$  lbs.

|               |            |          |
|---------------|------------|----------|
|               | Galvanized | Polished |
|               | Brass      | Brass    |
|               | Per Pair   | Per Pair |
| Oil or Elec.  | \$6.50     | \$9.00   |
| Oil and Elec. | 7.00       | 9.50     |

**Old Style Class 2 Bow Lights**

FLAT TOP

FOR BOATS 26 TO 39 FEET LONG INCLUSIVE

OIL ONLY OR OIL AND ELECTRIC



Fig. 5

Size of Lens,  $4\frac{1}{4} \times 6\frac{1}{2}$ "  
 Extreme Height,  $7\frac{1}{4}$ "  
 Measurement of Base,  $4\frac{1}{2} \times 5$ "  
 Weight Each, 3 lbs.

|                  |            |          |
|------------------|------------|----------|
|                  | Galvanized | Polished |
|                  | Each       | Brass    |
|                  | Each       | Each     |
| Oil or Elec.     | \$3.25     | \$4.50   |
| Oil and Electric | 3.50       | 4.75     |

With Red, Green, or Blue Lens  
 Add \$1.00 Each

**Old Style Class 3 Side Lights**

FLAT TOP

FOR BOATS 40 TO 65 FEET LONG INCLUSIVE

OIL ONLY OR OIL AND ELECTRIC

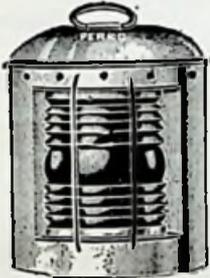


Fig. 6

Size of Lenses,  $5\frac{1}{4} \times 5\frac{3}{8}$ "  
 Extreme Height,  $8\frac{1}{2}$ "  
 Meas. of Base,  $5 \times 6\frac{1}{4}$ "  
 Weight, per Pair,  $7\frac{1}{2}$  lbs.

|               |            |          |
|---------------|------------|----------|
|               | Galvanized | Polished |
|               | Brass      | Brass    |
|               | Per Pair   | Per Pair |
| Oil or Elec.  | \$9.00     | \$13.20  |
| Oil and Elec. | 9.50       | 13.70    |

**Old Style Class 3 Bow Lights**

FLAT TOP

FOR BOATS 40 TO 65 FEET LONG INCLUSIVE

OIL ONLY OR OIL AND ELECTRIC



Fig. 7

Size of Lens,  $5\frac{1}{4} \times 5\frac{1}{2}$ "  
 Extreme Height,  $8\frac{1}{2}$ "  
 Meas. of Base,  $9\frac{1}{4} \times 6$ "  
 Weight Each,  $4\frac{1}{2}$  lbs.

|                  |            |          |
|------------------|------------|----------|
|                  | Galvanized | Polished |
|                  | Each       | Brass    |
|                  | Each       | Each     |
| Oil or Elec.     | \$4.50     | \$6.60   |
| Oil and Electric | 4.75       | 6.85     |

With Red, Green, or Blue Lens  
 Add \$1.50 Each

**Old Style Stern Lights**

FLAT TOP—CLEAR LENS

FOR CLASS 1 BOATS—LESS THAN 26 FEET LONG



Fig. 11

Size of Lens,  $3\frac{3}{8} \times 3\frac{1}{2}$ "  
 Extreme Height, 6"  
 Diameter Base,  $4\frac{1}{2}$ "  
 Weight Each,  $1\frac{1}{2}$  lbs.

|                      |                |
|----------------------|----------------|
| <b>ELECTRIC ONLY</b> |                |
| Galvanized           | Polished Brass |
| Each                 | Each           |
| \$3.25               | \$4.50         |

With Red, Green, or Blue Lens  
 Add \$1.00 Each

NOTE—We will furnish this light for oil burning if desired at same prices but it is not guaranteed to give good results.

**Old Style Class 2 and 3 Anchor Lights**

FLAT TOP—CLEAR LENS

FOR BOATS 26 TO 65 FEET LONG INCLUSIVE  
 OIL ONLY OR OIL AND ELECTRIC



Fig. 12

Size of Lens,  $4\frac{1}{4} \times 4\frac{1}{4}$ "  
 Extreme Height, 9"  
 Diameter Base,  $5\frac{3}{8}$ "  
 Weight Each, 3 lbs.

|                  |            |          |
|------------------|------------|----------|
|                  | Galvanized | Polished |
|                  | Each       | Brass    |
|                  | Each       | Each     |
| Oil or Elec.     | \$4.25     | \$6.25   |
| Oil and Electric | 4.50       | 6.50     |

With Red, Green, or Blue Lens  
 Add \$1.50 Each

Entire page with medium screw sockets only, same price as oil and electric.



**COMBINATION LIGHTS—ELECTRIC**  
FOR OUTBOARD MOTOR BOATS AND SMALL RUNABOUTS  
UP TO 16 FEET LONG INCLUSIVE

**Wrought Brass Type**  
FOR PERMANENT MOUNTING

Complete with red and green fresnel lenses and double contact electric socket.



Fig. 485

| Height Overall Inches | Diam. Body Inches | Diam. Base Inches  | Size Lens Inches | Weight Lbs.          |
|-----------------------|-------------------|--------------------|------------------|----------------------|
| 4½                    | 2½                | 2                  | 2½ x 3           | 1                    |
| Polished Brass Each   |                   | Nickel Plated Each |                  | Chromium Plated Each |
| \$2.60                |                   | \$2.85             |                  | \$4.00               |

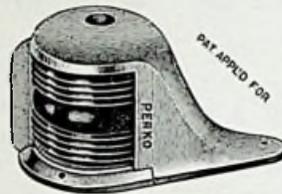
**Streamline Pattern**

WITH REBULBING FEATURE

CAST BRONZE, NICKEL SILVER AND ALUMINUM

It is not necessary to remove lamp from deck to change the bulb. Our rebulbing feature, as illustrated, makes it easy, as a few turns of a coin or screw driver inserted in slot removes plug to which electric socket is attached. Socket is set in swivel holder, wires will not twist while unscrewing. Plug is flush with back of lamp when closed.

Complete with red and green fresnel lenses and double contact electric socket.



Rear view showing method of changing bulb

Fig. 512

| Height Inches        | Base Inches        | Lens Inches          | Flagpole Socket Inch | Weight Lbs.            |
|----------------------|--------------------|----------------------|----------------------|------------------------|
| 3¾                   | 3¾ x 5¾            | 2½ x 3               | ¾                    | 1¾                     |
| Polished Bronze Each | Nickel Plated Each | Chromium Plated Each | Nickel Silver Each   | Polished Aluminum Each |
| \$5.50               | \$6.00             | \$7.00               | \$6.00               | \$5.50                 |

**Wrought Brass Type**  
FOR TEMPORARY MOUNTING  
WITH REMOVABLE BRACKET

Quickly removed from deck without necessity of removing screws from deck. Complete with red and green fresnel lenses and double contact electric socket.

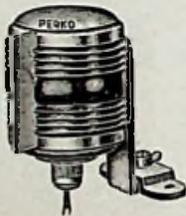


Fig. 486

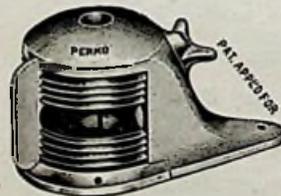
| Height Inches       | Diam. Inches | Lens Inches        | Weight Lbs.          |
|---------------------|--------------|--------------------|----------------------|
| 4                   | 2½           | 2½ x 3             | 1                    |
| Polished Brass Each |              | Nickel Plated Each | Chromium Plated Each |
| \$3.25              |              | \$3.50             | \$4.75               |

**Streamline Pattern**

WITH CLEAT AND REBULBING FEATURE

CAST BRONZE, NICKEL SILVER AND ALUMINUM

Same as Fig. 512, except for cleat on back to which electric socket is attached. Can be used as a bitt, as rope cannot slip over top of lamp.



Rear view showing method of changing bulb

Fig. 536

| Height Inches       | Base Inches          | Lens Inches        | Flagpole Socket Inch | Weight Lbs.            |
|---------------------|----------------------|--------------------|----------------------|------------------------|
| 3¾                  | 3¾ x 5¾              | 2½ x 3             | ¾                    | 1¾                     |
| Foundry Finish Each | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each | Polished Aluminum Each |
| \$4.00              | \$5.00               | \$5.50             | \$6.50               | \$5.00                 |

| Height Inches        | Base Inches        | Lens Inches          | Flagpole Socket Inches | Length Cleat Inches    | Wt. Lbs. |
|----------------------|--------------------|----------------------|------------------------|------------------------|----------|
| 3¾                   | 3¾ x 5¾            | 2½ x 3               | ¾                      | 2½                     | 2        |
| Polished Bronze Each | Nickel Plated Each | Chromium Plated Each | Nickel Silver Each     | Polished Aluminum Each |          |
| \$5.50               | \$6.00             | \$7.00               | \$6.00                 | \$5.50                 |          |



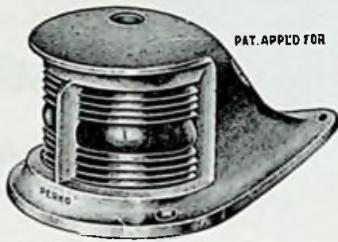
**COMBINATION LIGHTS—ELECTRIC**

FOR LARGER OUTBOARD MOTOR BOATS, RUNABOUTS AND SMALL CRUISERS  
FROM 16 TO 25 FEET LONG INCLUSIVE

**Streamline Pattern**

WITH REBULBING FEATURE  
FOR RUNABOUTS 16 TO 20 FEET LONG  
CAST BRONZE AND NICKEL SILVER

Contains our famous rebulbing feature, as illustrated on Fig. 512. Complete with red and green lenses and double contact electric socket.



PAT. APPLIED FOR



Rear view showing method of changing bulb

Fig. 598

| Height Inches        | Base Inches        | Lens Inches        | Flagpole Socket Inch | Weight Lbs. |
|----------------------|--------------------|--------------------|----------------------|-------------|
| 3 3/4                | 4 7/8 x 8          | 2 1/2 x 3          | 1                    | 2 1/2       |
| Polished Bronze Each | Nickel Plated Each | Nickel Silver Each | Chromium Plated Each |             |
| \$6.50               | \$7.00             | \$7.00             | \$9.00               |             |

**Streamline Pattern**

WITH REBULBING FEATURE  
FOR RUNABOUTS AND CRUISERS  
18 TO 25 FEET LONG  
CAST BRONZE AND NICKEL SILVER

Contains our popular flush type rebulbing feature, absolutely watertight.

A few turns of a coin or screw driver in slot brings out socket allowing instant removal of bulb.

IT IS NOT NECESSARY TO TAKE LIGHT OFF DECK TO CHANGE BULB.

Equipped with red and green fresnel lenses and double contact electric socket. Socket in top of light for flagpole, 1 or 1 1/4 inches diameter.



PAT. APPLIED FOR

Fig. 559

| Height Inches        | Base Inches        | Lens Inches        | Weight Lbs.          |
|----------------------|--------------------|--------------------|----------------------|
| 4 3/4                | 8 3/4 x 5 1/2      | 3 3/8 x 3 3/8      | 4 3/4                |
| Polished Bronze Each | Nickel Plated Each | Nickel Silver Each | Chromium Plated Each |
| \$11.50              | \$12.00            | \$12.00            | \$14.50              |

**Streamline Pattern**

WITHOUT REBULBING FEATURE  
FOR RUNABOUTS 16 TO 20 FEET LONG  
CAST BRONZE AND NICKEL SILVER

Same style and size as Fig. 598, except that bulb is changed by removing lamp from the deck.



Fig. 606

|                      |                    |                      |                    |
|----------------------|--------------------|----------------------|--------------------|
| Polished Bronze Each | Nickel Plated Each | Chromium Plated Each | Nickel Silver Each |
| \$6.00               | \$6.50             | \$8.50               | \$6.50             |

**Post Pattern**

FOR RUNABOUTS AND CRUISERS  
18 TO 25 FEET LONG  
CAST BRONZE

Complete with red and green fresnel lenses and double contact electric socket.



Fig. 490

| Height Inches        | Diameter Base Inches | Lens Inches          | Flagpole Socket Inches | Weight Pounds |
|----------------------|----------------------|----------------------|------------------------|---------------|
| 6                    | 3 1/2                | 3 3/8 x 3 3/8        | 5/8                    | 2 3/4         |
| Polished Bronze Each | Nickel Plated Each   | Chromium Plated Each |                        |               |
| \$5.00               | \$5.50               | \$6.50               |                        |               |

**Flat Back Pattern**

FOR CRUISERS 18 TO 25 FEET LONG  
CAST BRONZE

Complete with red and green fresnel lenses and double contact electric socket.



Fig. 597

| Height Inches        | Width Inches       | Base Inches          | Lens Inches   | Weight Lbs. |
|----------------------|--------------------|----------------------|---------------|-------------|
| 4                    | 4 3/4              | 3 x 4 3/4            | 3 3/8 x 3 3/8 | 2 3/4       |
| Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |               |             |
| \$6.00               | \$6.50             | \$8.50               |               |             |

## COMBINATION LIGHTS AND BITTS—ELECTRIC

FOR ALL CLASSES OF BOATS 12 TO 39 FEET LONG INCLUSIVE

### Round Pattern

FOR OUTBOARD MOTOR BOATS AND  
RUNABOUTS  
CAST BRONZE AND NICKEL SILVER

Body cast in one piece with threaded top for changing bulbs or lenses. Made in two sizes—No. 1 for outboard motor boats, No. 2 for runabouts 15 to 20 feet long.



Closed

Fig. 384



Open for Rebulbing

| Nos. | Height Inches | Diam. Base Inches | Size Lens Inches | Flagpole Socket Inches | Weight Each Lbs. |
|------|---------------|-------------------|------------------|------------------------|------------------|
| 1    | 3 3/4         | 4                 | 2 1/2 x 3        | 5/8                    | 2                |
| 2    | 5             | 5 1/4             | 3 3/8 x 3 3/8    | 1 1/4                  | 3 1/2            |

| Nos. Each | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each | Nickel Silver Each |
|-----------|----------------------|--------------------|----------------------|--------------------|
| 1         | \$5.00               | \$5.50             | \$6.50               | \$5.50             |
| 2         | 6.50                 | 7.00               | 9.00                 | 7.00               |

### Bitt Pattern

FOR RUNABOUTS AND CRUISERS  
16 TO 25 FEET LONG  
WITH REBULBING FEATURE  
CAST BRONZE AND NICKEL SILVER

One solid casting throughout. A good substantial bitt. Contains our patented rebulbing feature, as illustrated.

IT IS NOT NECESSARY TO REMOVE LAMP FROM DECK TO CHANGE BULB.

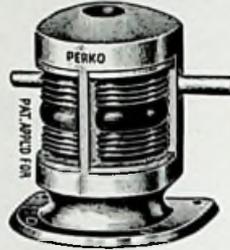
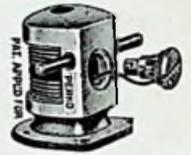


Fig. 510



Rear view showing method of changing bulb

| Height Inches | Base Inches   | Lens Inches | Flagpole Socket Inches | Weight Lbs. |
|---------------|---------------|-------------|------------------------|-------------|
| 5 1/2         | 4 3/4 x 4 3/4 | 2 1/2 x 3   | 7/8                    | 4           |

| Polished Bronze Each | Nickel Plated Each | Chromium Plated Each | Nickel Silver Each |
|----------------------|--------------------|----------------------|--------------------|
| \$8.00               | \$9.00             | \$11.00              | \$9.00             |

### Combination Post Light and Riding Bitt

FOR CLASS 1 BOATS—18 TO 25 FEET LONG  
CAST BRONZE AND NICKEL SILVER

Body cast in one solid piece with threaded top for changing bulb or lens. Large thread allows easy removal and replacing of top. Lens fastened by cast wedge, which insures a good water-tight fit. Flagpole socket in top, red and green fresnel lenses and double contact electric socket.

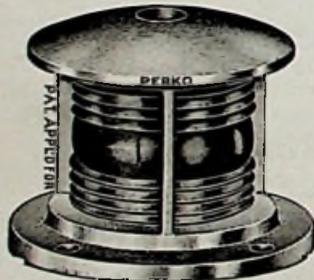


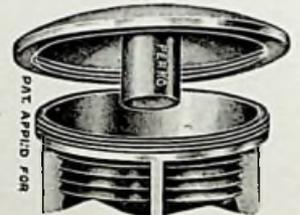
Fig. 502  
Closed

| Height Inches | Diam. Base Inches | Size Lens Inches | Flagpole Socket Inches | Weight Lbs. |
|---------------|-------------------|------------------|------------------------|-------------|
| 4 3/4         | 6 1/2             | 3 3/8 x 3 3/8    | 1 or 1 1/4             | 5 1/2       |

| Polished Bronze Each | Nickel Plated Each | Chromium Plated Each | Nickel Silver Each |
|----------------------|--------------------|----------------------|--------------------|
| \$12.00              | \$13.00            | \$15.00              | \$13.00            |

Furnished with standard screw electric sockets at above prices if desired.



Open for Rebulbing

### Bow Post Light and Riding Bitt

FOR CLASS 2 BOATS—26 TO 39 FEET LONG  
CAST BRONZE AND NICKEL SILVER

Same general construction as Fig. 502 above. Serves purpose as a bow light and good substantial riding bitt combined, as body and base are one heavy casting with heavy guards which protect lens from breakage. Equipped with clear fresnel lens and double contact electric socket.

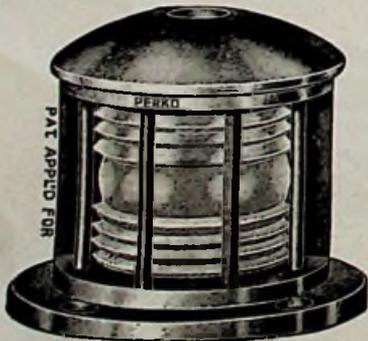


Fig. 503

| Height Inches | Diam. Base Inches | Size Lens Inches | Flagpole Socket Inches | Weight Pounds |
|---------------|-------------------|------------------|------------------------|---------------|
| 6 1/2         | 7 1/4             | 4 1/4 x 6 1/2    | 1 1/4                  | 8             |

| Polished Bronze Each | Nickel Plated Each | Chromium Plated Each | Nickel Silver Each |
|----------------------|--------------------|----------------------|--------------------|
| \$12.00              | \$13.00            | \$15.00              | \$13.00            |

Furnished with standard screw electric sockets at above prices if desired.

## Streamline Side Lights

FOR CLASSES 1, 2 AND 3 BOATS  
CAST BRONZE AND NICKEL SILVER

With our popular rebulbing feature which makes it unnecessary to remove light from the boat to change bulb.

Furnished in pairs, with red and green fresnel lenses and double contact electric sockets.

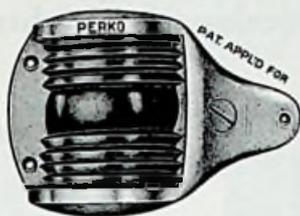


Fig. 563

| Class | Height Inches | Length Inches | Size Lens Inches | Weight Per Pair Lbs. |
|-------|---------------|---------------|------------------|----------------------|
| 1     | 4 1/8         | 6             | 3 3/8 x 3 3/8    | 3                    |
| 2     | 5 1/8         | 7 1/2         | 4 1/4 x 4 3/4    | 5                    |
| 3     | 6             | 9 1/4         | 5 1/4 x 5 3/8    | 7                    |

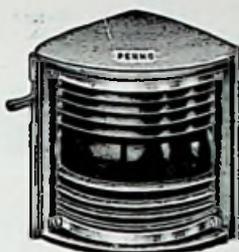
| Class | Polished Bronze Per Pair | Nickel Plated Per Pair | Nickel Silver Per Pair | Chromium Plated Per Pair |
|-------|--------------------------|------------------------|------------------------|--------------------------|
| 1     | \$10.00                  | \$11.00                | \$11.00                | \$13.50                  |
| 2     | 12.00                    | 13.00                  | 13.00                  | 16.00                    |
| 3     | 18.00                    | 20.00                  | 20.00                  | 22.50                    |

## De-Lite Side Lights

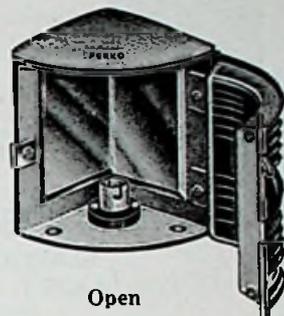
WITH FRONT DOORS  
FOR CLASSES 2 AND 3 BOATS  
CAST BRONZE AND NICKEL SILVER

A quick change of bulb or lens is assured. Lenses are fastened in doors by brass straps and machine screws, doors have positive latch which cannot work loose due to vibration or wind.

Furnished in pairs, with red and green fresnel lenses and double contact or standard screw sockets.



Closed



Open

Fig. 504

| Class | Height Inches | Angle Inches  | Lens Inches   | Weight Per Pair Lbs. |
|-------|---------------|---------------|---------------|----------------------|
| 2     | 5 1/2         | 3 3/4 x 3 3/4 | 4 1/4 x 4 3/4 | 6 1/2                |
| 3     | 6             | 4 x 4         | 5 1/4 x 5 3/8 | 8                    |

| Class | Polished Bronze Per Pair | Nickel Plated Per Pair | Chromium Plated Per Pair | Nickel Silver Per Pair |
|-------|--------------------------|------------------------|--------------------------|------------------------|
| 2     | \$10.00                  | \$11.00                | \$14.00                  | \$11.00                |
| 3     | 13.00                    | 14.00                  | 17.00                    | 14.00                  |

Double contact sockets furnished unless otherwise specified

## Streamline Bow Lights

WITH REBULBING FEATURE

FOR CLASSES 1, 2 AND 3 BOATS  
CAST BRONZE AND NICKEL SILVER

Furnished with clear fresnel lens and double contact electric socket.



Fig. 561

| Class | Height Inches | Base Inches   | Lens Inches   | Weight Pounds | Flagpole Socket Inches |
|-------|---------------|---------------|---------------|---------------|------------------------|
| 1     | 4 3/8         | 5 x 8 1/2     | 3 1/8 x 3 1/2 | 4             | 3/4                    |
| 2     | 5             | 5 3/4 x 9 3/8 | 4 1/4 x 6 1/2 | 4 3/4         | 1 or 1 1/4             |
| 3     | 6 3/8         | 6 3/8 x 13    | 5 1/4 x 7 3/4 | 8 3/4         | 1 or 1 1/4             |

| Class | Polished Bronze Each | Nickel Plated Each | Nickel Silver Each | Chromium Plated Each |
|-------|----------------------|--------------------|--------------------|----------------------|
| 1     | \$ 9.00              | \$10.00            | \$10.50            | \$12.00              |
| 2     | 11.00                | 12.00              | 12.50              | 14.00                |
| 3     | 16.00                | 17.50              | 18.00              | 20.00                |

## De-Lite Bow Lights

WITH FRONT DOORS  
FOR CLASSES 2 AND 3 BOATS  
CAST BRONZE AND NICKEL SILVER

Same construction as Fig. 504 above. Furnished with clear fresnel lens and double contact or standard screw socket.



Fig. 505

| Class | Height Inches | Width Inches | Lens Inches   | Weight Lbs. |
|-------|---------------|--------------|---------------|-------------|
| 2     | 5 1/2         | 5 1/2        | 4 1/4 x 6 1/2 | 3 1/4       |
| 3     | 6 1/2         | 6            | 5 1/4 x 7 3/4 | 4 1/4       |

| Class | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each | Nickel Silver Each |
|-------|----------------------|--------------------|----------------------|--------------------|
| 2     | \$5.00               | \$5.50             | \$7.00               | \$5.50             |
| 3     | 6.50                 | 7.00               | 8.50                 | 7.00               |

Double contact sockets furnished unless otherwise specified

With Red or Green Lens, Class 2 and 3, add \$1.00 Each



## Royal Combination Lights

HEAVY GALVANIZED IRON AND BRASS  
ELECTRIC ONLY

FOR CLASS 1 BOATS

Made of heavy gauge material, flat back and double contact electric socket. Can be stored in very small space.

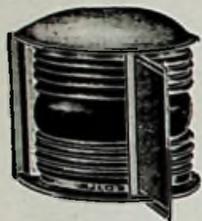


Fig. 89

| Height Inches | Width Inches | Size Lens Inches | Weight Lbs. |
|---------------|--------------|------------------|-------------|
| 3 3/4         | 4 1/4        | 3 3/8 x 3 3/8    | 1 1/4       |

| Galvanized Iron Each | Polished Brass Each | Nickel Plated Each |
|----------------------|---------------------|--------------------|
| \$3.00               | \$3.50              | \$4.00             |

## Royal Side Lights

ELECTRIC ONLY

FOR CLASS 1, 2 AND 3 BOATS

Same construction as above.



Fig. 91

| Class   | Height Inches | Size Lens Inches | Weight per Pair Lbs. |
|---------|---------------|------------------|----------------------|
| Class 1 | 4             | 3 3/8 x 3 3/8    | 1 1/2                |
| Class 2 | 5             | 4 1/4 x 4 1/4    | 2                    |
| Class 3 | 6             | 5 1/4 x 5 1/4    | 3                    |

| Class   | Galvanized Iron Per Pair | Polished Brass Per Pair | Nickel Plated Per Pair |
|---------|--------------------------|-------------------------|------------------------|
| Class 1 | \$4.00                   | \$6.00                  | \$7.00                 |
| Class 2 | 4.00                     | 6.00                    | 7.00                   |
| Class 3 | 6.00                     | 8.00                    | 9.00                   |

## Royal Bow Lights

ELECTRIC ONLY

FOR CLASS 1, 2 AND 3 BOATS

Same construction as above.



Fig. 92

| Class   | Height Inches | Size Lens Inches | Weight Each Lbs. |
|---------|---------------|------------------|------------------|
| Class 1 | 4             | 3 1/4 x 5 1/4    | 1                |
| Class 2 | 5             | 4 1/4 x 6 1/4    | 1 1/2            |
| Class 3 | 6             | 5 1/4 x 7 1/4    | 2                |

| Class   | Galvanized Iron Each | Polished Brass Each | Nickel Plated Each |
|---------|----------------------|---------------------|--------------------|
| Class 1 | \$2.00               | \$3.00              | \$3.50             |
| Class 2 | 2.00                 | 3.00                | 3.50               |
| Class 3 | 3.00                 | 4.00                | 4.50               |

## Royal Stern Lights

ELECTRIC ONLY

FOR CLASS 1, 2 AND 3 BOATS



Fig. 90

| Class        | Height Inches | Size Lens Inches | Weight Each Lbs. |
|--------------|---------------|------------------|------------------|
| Class 1      | 4 1/2         | 3 3/8 x 3 3/8    | 1 1/4            |
| Class 2 or 3 | 5 1/2         | 4 1/4 x 4 1/4    | 2                |

| Class        | Galvanized Iron Each | Polished Brass Each | Nickel Plated Each |
|--------------|----------------------|---------------------|--------------------|
| Class 1      | \$2.50               | \$3.50              | \$4.50             |
| Class 2 or 3 | 3.50                 | 4.50                | 5.50               |

## New Battery Lights

To meet the demand for self-contained marine running lights to eliminate the necessity of operation of the regular storage battery, especially in the case of non-auxiliary sail boats where the carrying of a heavy storage battery is not desired or practical.

The interior of the light is arranged to receive two ordinary flashlight type dry cells, no wiring or fuss of any kind necessary.

A sliding door on the back permits easy access to the interior for battery or bulb replacement.

A screw switch for turning light on or off is also furnished.

## Combination Lights

FOR CLASS 1 BOATS



Fig. 1010



Back view with Door removed

| Galvanized Each | Polished Brass Each | Nickel Plated Each | Height Inches | Width Inches | Size Lens Inches |
|-----------------|---------------------|--------------------|---------------|--------------|------------------|
| \$4.00          | \$4.50              | \$5.00             | 3 3/4         | 4 1/4        | 3 3/8 x 3 3/8    |

With Cast Bronze Bracket for deck mounting similar to that used on Fig. 486, add \$1.00 each.

## Side Lights

FOR CLASS 1 AND 2 BOATS

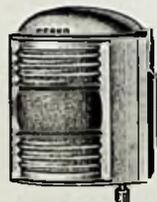
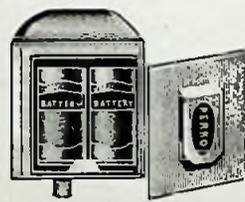


Fig. 1011



Back view with Door removed

| Class | Galvanized Per pair | Polished Brass Per pair | Nickel Plated Per pair | Height Inches | Size Lens Inches |
|-------|---------------------|-------------------------|------------------------|---------------|------------------|
| 1     | \$6.50              | \$8.00                  | \$9.00                 | 4             | 3 3/8 x 3 3/8    |
| 2     | 6.80                | 8.50                    | 9.50                   | 5             | 4 1/4 x 4 3/4    |

## Bow Lights

FOR CLASS 1 AND 2 BOATS



Fig. 1012



Back view with Door removed

| Class | Galvanized Each | Polished Brass Each | Nickel Plated Each | Height Inches | Size Lens Inches |
|-------|-----------------|---------------------|--------------------|---------------|------------------|
| 1     | \$3.25          | \$4.00              | \$4.50             | 4             | 3 1/4 x 5 1/8    |
| 2     | 3.40            | 4.25                | 4.75               | 5             | 4 1/4 x 6 1/2    |

All Above Prices Do Not Include Batteries



## Pole Lights

### WROUGHT BRASS

All with screw type fresnel ball globes, double contact electric sockets and 5 feet of rubber covered waterproof cable. Opening in globes is 1½ inch which will admit a 50 C. P. bulb.



Fig. 482

WITH 2½ INCH GLOBE  
FOR SOLID POLE  
CABLE THROUGH SIDE

| Height Overall Inches | Inside Diam. Neck Inches | Weight Oz.           |
|-----------------------|--------------------------|----------------------|
| 5                     | ¾                        | 12                   |
| Polished Brass Each   | Nickel Plated Each       | Chromium Plated Each |
| \$2.25                | \$2.50                   | \$3.00               |



Fig. 491

WITH 2½ INCH GLOBE  
FOR HOLLOW POLE  
CABLE THROUGH BOTTOM

| Height Overall Inches | Inside Diam. Neck Inches | Weight Oz.           |
|-----------------------|--------------------------|----------------------|
| 5                     | ¾                        | 12                   |
| Polished Brass Each   | Nickel Plated Each       | Chromium Plated Each |
| \$2.25                | \$2.50                   | \$3.00               |

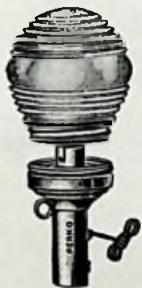


Fig. 508

WITH 3 INCH GLOBE  
FOR SOLID POLE  
CABLE THROUGH SIDE

| Height Overall Inches | Inside Diam. Neck Inches | Weight Lbs.          |
|-----------------------|--------------------------|----------------------|
| 5¾                    | ¾                        | 1                    |
| Polished Brass Each   | Nickel Plated Each       | Chromium Plated Each |
| \$2.25                | \$2.50                   | \$3.00               |



Fig. 483

WITH 3 INCH GLOBE  
FOR HOLLOW POLE  
CABLE THROUGH BOTTOM

| Height Overall Inches | Inside Diam. Neck Inches | Weight Lbs.          |
|-----------------------|--------------------------|----------------------|
| 5¾                    | ¾                        | 1                    |
| Polished Brass Each   | Nickel Plated Each       | Chromium Plated Each |
| \$2.25                | \$2.50                   | \$3.00               |

## Pole Lights

### CAST BRONZE

All furnished complete with fresnel ball globe, double contact socket and 5 feet of rubber covered waterproof cable. Screw type globes on Fig. 498 and 484, large opening to admit a 50 C. P. bulb.



Fig. 601

JUNIOR PATTERN  
FOR SOLID POLE  
CABLE THROUGH SIDE  
Globe with brass ferrule, cut threads, opening will admit a 3 or 6 C. P. bulb.

| Outside Diam. Globe Inches | Height Overall Inches | Inside Diam. Neck Inches | Weight Oz. |
|----------------------------|-----------------------|--------------------------|------------|
| 1¾                         | 4¼                    | ½                        | 4          |
| Polished Bronze Each       | Nickel Plated Each    | Chromium Plated Each     |            |
| \$2.00                     | \$2.25                | \$2.75                   |            |



Fig. 600

JUNIOR PATTERN  
FOR HOLLOW POLE  
CABLE THROUGH BOTTOM  
Globe with brass ferrule, cut threads opening will admit a 3 or 6 C. P. bulb.

| Outside Diam. Globe Inches | Height Overall Inches | Inside Diam. Neck Inches | Weight Oz. |
|----------------------------|-----------------------|--------------------------|------------|
| 1¾                         | 4¼                    | ½                        | 4          |
| Polished Bronze Each       | Nickel Plated Each    | Chromium Plated Each     |            |
| \$2.00                     | \$2.25                | \$2.75                   |            |



Fig. 498

HEAVY PATTERN  
FOR SOLID POLE  
CABLE THROUGH SIDE  
WITH 2½ OR 3 INCH GLOBE

| Outside Diam. Globe Inches | Height Overall Inches | Inside Diam. Neck Inches | Weight Lbs.          |
|----------------------------|-----------------------|--------------------------|----------------------|
| 2½ or 3                    | 5                     | ¾                        | 1                    |
| Foundry Finish Bronze Each | Polished Bronze Each  | Nickel Plated Each       | Chromium Plated Each |
| \$2.75                     | \$3.50                | \$3.75                   | \$4.75               |



Fig. 484

HEAVY PATTERN  
FOR HOLLOW POLE  
CABLE THROUGH BOTTOM  
WITH 2½ OR 3 INCH GLOBE

| Outside Diam. Globe Inches | Height Overall Inches | Inside Diam. Neck Inches | Weight Lbs.          |
|----------------------------|-----------------------|--------------------------|----------------------|
| 2½ or 3                    | 5                     | ¾                        | 1                    |
| Foundry Finish Bronze Each | Polished Bronze Each  | Nickel Plated Each       | Chromium Plated Each |
| \$2.75                     | \$3.50                | \$3.75                   | \$4.75               |

## Flag Pole Lights

ELECTRIC ONLY—SOLID MAHOGANY POLE

This pole is turned from one solid piece of mahogany and drilled through center for electric wire. Natural finish, varnished, equipped with pole light. Fig. 491, 2½ or 3 inch globe, double contact electric socket. All wired ready for use. Double contact connection plug on end of wire. Threaded base of globe allows easy change of bulb. Brass ferrule on base of pole to prevent splitting or swelling.



Fig. 492

| Length Overall Inches | Diameter Base Inches |
|-----------------------|----------------------|
| 20                    | 1¼                   |
| 24                    | 1¼                   |
| 30                    | 1¼                   |
| 36                    | 1¼                   |
| 42                    | 1¼                   |
| 48                    | 1¼                   |
| 60                    | 1¼                   |
| 72                    | 1¼                   |

| Length Overall Inches | Polished Brass Each | Nickel Plated Each | Chromium Plated Each |
|-----------------------|---------------------|--------------------|----------------------|
| 20                    | \$6.00              | \$6.25             | \$7.25               |
| 24                    | 6.25                | 6.50               | 7.50                 |
| 30                    | 6.35                | 6.60               | 7.60                 |
| 36                    | 6.50                | 6.75               | 7.75                 |
| 42                    | 6.60                | 6.85               | 7.85                 |
| 48                    | 6.75                | 7.00               | 8.00                 |
| 60                    | 7.00                | 7.25               | 8.25                 |
| 72                    | 7.50                | 7.75               | 8.75                 |

NOTE—Furnished with wire outlet in side of pole instead of bottom if desired.  
2½ inch globes furnished unless 3 inch is specified.

## Pole Light Assembly

COMPLETE WITH FLAG POLE SOCKET AND ELECTRIC CONNECTIONS IN POLE AND SOCKET

Insert pole in socket and electric connection is complete. No wires exposed, no springs to corrode. A real positive hook-up, unaffected by water or corrosion, connection only is shown on page 51, Fig. 404. Female end of connector is mortised into base of pole, male end fastened securely in flag pole socket. Brass ferrule on base of pole, brass light on top as Fig. 491.



Fig. 590

| Length Overall Inches | Diam. Base of Pole Inches |
|-----------------------|---------------------------|
| 20                    | 1¼                        |
| 24                    | 1¼                        |
| 30                    | 1¼                        |
| 36                    | 1¼                        |
| 42                    | 1¼                        |
| 48                    | 1¼                        |
| 60                    | 1¼                        |
| 72                    | 1¼                        |

| Length Overall Inches | Polished Brass Each | Nickel Plated Each | Chromium Plated Each |
|-----------------------|---------------------|--------------------|----------------------|
| 20                    | \$8.00              | \$ 9.00            | \$10.25              |
| 24                    | 8.25                | 9.25               | 10.50                |
| 30                    | 8.50                | 9.50               | 10.75                |
| 36                    | 8.75                | 9.75               | 11.00                |
| 42                    | 8.85                | 9.85               | 11.10                |
| 48                    | 9.00                | 10.00              | 11.25                |
| 60                    | 9.25                | 10.25              | 11.50                |
| 72                    | 9.50                | 10.50              | 11.75                |

Can be furnished with cast bronze top. Fig. 498, add \$1.00 to above prices.

## Flag Pole Light

CAST BRONZE TOP—MAHOGANY POLE

Same pole as Fig. 492, except that top is of cast bronze with 2½ or 3 inch globe, threaded base. Complete with brass ferrule and connector.



Fig. 537

| Length Overall Inches | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |
|-----------------------|----------------------|--------------------|----------------------|
| 20                    | \$7.25               | \$7.60             | \$ 8.75              |
| 24                    | 7.50                 | 7.85               | 9.00                 |
| 30                    | 7.60                 | 7.98               | 9.10                 |
| 36                    | 7.75                 | 8.10               | 9.25                 |
| 42                    | 7.85                 | 8.20               | 9.35                 |
| 48                    | 8.00                 | 8.35               | 9.50                 |
| 60                    | 8.25                 | 8.60               | 9.75                 |
| 72                    | 8.75                 | 9.10               | 10.25                |

NOTE—2½ inch globes furnished unless 3 inch is specified. Furnished with wire outlet in side or bottom of pole. For information on light only, refer to Fig. 498.

## Pole Light Assembly

COMPLETE WITH FANCY FLAG POLE SOCKET AND ELECTRIC CONNECTIONS IN POLE AND SOCKET

Same as Fig. 590 above, equipped with fancy flag pole socket, 1¼ inch diameter.



Fig. 591

| Length Overall Inches | Polished Brass Each | Nickel Plated Each | Chromium Plated Each |
|-----------------------|---------------------|--------------------|----------------------|
| 20                    | \$ 8.50             | \$ 9.50            | \$11.00              |
| 24                    | 8.75                | 9.75               | 11.25                |
| 30                    | 9.00                | 10.00              | 11.50                |
| 36                    | 9.25                | 10.25              | 11.75                |
| 42                    | 9.35                | 10.35              | 11.85                |
| 48                    | 9.50                | 10.50              | 12.00                |
| 60                    | 9.75                | 10.75              | 12.25                |
| 72                    | 10.00               | 11.00              | 12.50                |

2½ inch globes furnished unless 3 inch globe is specified.

Colored globes (red, green or blue) desired on any of the above pole lights, add \$ .50 to above prices.



### Pole Light Assembly

COMPLETE WITH STREAMLINE FLAG POLE SOCKET AND ELECTRIC CONNECTIONS IN POLE AND SOCKET

Same hook-up as Fig. 590, equipped with streamline flag pole socket, 1 1/4 inch diameter.



Fig. 481

| Length Overall Inches | Pol. Brass Each | Nickel Plated Each | Chromium Plated Each |
|-----------------------|-----------------|--------------------|----------------------|
| 20                    | \$ 8.70         | \$ 9.70            | \$11.50              |
| 24                    | 8.95            | 9.95               | 11.75                |
| 30                    | 9.20            | 10.20              | 12.00                |
| 36                    | 9.45            | 10.45              | 12.25                |
| 42                    | 9.55            | 10.55              | 12.35                |
| 48                    | 9.70            | 10.70              | 12.50                |
| 60                    | 9.95            | 10.95              | 12.75                |
| 72                    | 10.20           | 11.20              | 13.00                |

2 1/2 inch globes furnished unless 3 inch is specified.

### Flag Pole Light

WITH 2 1/2 INCH GLOBE—HOLLOW BRASS POLE FOR OUTBOARD MOTOR BOATS AND RUNABOUTS

Complete with cast bronze flag pole socket, wired ready for use, wires concealed in pole.



Fig. 538

| Length Overall Inches | Polished Brass Each | Nickel Plated Each | Chromium Plated Each | Outside Diam. Pole Inches | Weight Lbs. |
|-----------------------|---------------------|--------------------|----------------------|---------------------------|-------------|
| 24                    | \$4.25              | \$4.75             | \$5.75               | 7/8                       | 1 1/4       |
| 30                    | 4.75                | 5.25               | 6.75                 | 7/8                       | 1 1/2       |

### Flag Pole Lights

ELECTRIC ONLY—MAHOGANY POLE FOR OUTBOARD MOTOR BOATS AND SMALL RUNABOUTS

An extra small size fresnel globe, 1 1/8 inch diameter, just large enough to admit a 3 c. p. electric bulb. Fitted on our high grade solid mahogany flag pole, which is drilled through center for wires.



Fig. 602

| Length Overall Inches | Diam. Base Inches | Weight Oz. |
|-----------------------|-------------------|------------|
| 24                    | 3/4               | 8          |
| 30                    | 3/4               | 9          |

| Height Inches | Polished Brass Each | Nickel Plated Each | Chromium Plated Each | Nickel Silver Each |
|---------------|---------------------|--------------------|----------------------|--------------------|
| 24            | \$4.00              | \$4.50             | \$5.00               | \$4.50             |
| 30            | 4.25                | 4.75               | 5.25                 | 4.75               |

For information on light fixture only, refer to Fig. 600.

### Junior Pole Light Assembly

ELECTRIC CONNECTIONS IN POLE AND SOCKET HOLLOW BRASS POLE—CAST BRONZE SOCKET



Fig. 846

For outboard motor boats and small runabouts

No wires to bother with when pole is removed; insert pole in socket with a half turn which makes contact and locks pole in socket. All double contact connections.

| Length Pole Inches | Polished Brass Each | Nickel Plated Each | Chromium Plated Each | Diam. Globe Inches | Size Socket Inches |
|--------------------|---------------------|--------------------|----------------------|--------------------|--------------------|
| 24                 | \$5.00              | \$5.50             | \$6.50               | 1 3/8              | 3/4                |
| 30                 | 5.50                | 6.00               | 7.00                 | 1 3/8              | 3/4                |

### Flag Pole Lights

ELECTRIC ONLY—HOLLOW BRASS POLE

With 1 3/8 inch fresnel globe, hollow brass pole, wiring concealed inside pole, and cast bronze flag pole socket complete ready for installation.



Fig. 603

| Length Overall Inches | Outside Diam. Pole Inches | Weight Oz. |
|-----------------------|---------------------------|------------|
| 24                    | 1 1/8                     | 12         |
| 30                    | 1 1/8                     | 16         |

| Length Inches | Polished Brass Each | Nickel Plated Each | Chromium Plated Each |
|---------------|---------------------|--------------------|----------------------|
| 24            | \$4.00              | \$4.50             | \$5.50               |
| 30            | 4.25                | 4.75               | 6.25                 |

### Mahogany Flag Poles

Turned from solid seasoned mahogany. Natural finish—varnished. Diameter base 1 1/4 inches.



Fig. 496

| Length Overall Inches | Weight Oz. | Price Each |
|-----------------------|------------|------------|
| 18                    | 2 1/2      | \$1.00     |
| 20                    | 3          | 1.20       |
| 24                    | 3 1/2      | 1.40       |
| 30                    | 4          | 2.00       |
| 36                    | 4 3/4      | 2.40       |
| 42                    | 5 1/4      | 2.60       |
| 48                    | 6          | 2.80       |

Can be furnished with 1 inch base if specified.

With brass or nickel plated ferrule—add \$ .25 to above prices.

### Stern Lights

BRASS

Made of heavy brass tubing with cast bronze base, 2½ or 3 inch fresnel ball globe, threaded base, double contact electric socket.



Fig. 422

| Height Overall Inches | Diam. Base Inches   | Diam. Globe Inches | Weight Oz.           |
|-----------------------|---------------------|--------------------|----------------------|
| 7                     | 2½                  | 2½ or 3            | 12                   |
| Plain Brass Each      | Polished Brass Each | Nickel Plated Each | Chromium Plated Each |
| \$2.75                | \$3.00              | \$3.25             | \$4.50               |

Can be had in any height from 4 inches up. For each additional inch above the standard height add 20c. 2½ inch globes furnished unless 3 inch are requested.

With red, green or blue globe, add \$ .50 each

### Stern Lights

CAST BRONZE

All cast bronze with 2½ or 3 inch fresnel ball globe, threaded base, double contact electric socket.



Fig. 506

| Height Overall Inches | Diam. Base Inches    | Diam. Globe Inches | Weight Oz.           |
|-----------------------|----------------------|--------------------|----------------------|
| 6½                    | 1½                   | 2½ or 3            | 18                   |
| Plain Bronze Each     | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |
| \$3.50                | \$4.00               | \$4.25             | \$5.50               |

With red, green or blue globe, add \$ .50.

2½ inch globes furnished unless 3 inch are requested.

### Stern Lights

CAST BRONZE



Fig. 375

Equipped with 360 degree fresnel lens and double contact electric socket. Any height desired can be secured by placing required length of 1 inch brass pipe at joint marked A. These parts have standard 1 inch pipe thread.

| Height Inches     | Diam. Base Inches    | Diam. Body Inches  | Size Lens Inches     | Weight Lbs. |
|-------------------|----------------------|--------------------|----------------------|-------------|
| 7                 | 3½                   | 3½                 | 3¾ x 3½              | 2¾          |
| Plain Bronze Each | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |             |
| \$6.50            | \$7.00               | \$8.00             | \$9.00               |             |

With red, green or blue lens, add \$1.00 each.

Furnished with standard screw socket at above prices if desired.



Fig. 521

Equipped with 360 degree clear fresnel lens and double contact electric socket. Extra long neck.

| Height Inches     | Diam. Body Inches    | Size Lens Inches   | Inside Diam. Neck Inches | Weight Lbs. |
|-------------------|----------------------|--------------------|--------------------------|-------------|
| 6¾                | 3½                   | 3¾ x 3½            | 1¼ or 1½                 | 2           |
| Plain Bronze Each | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each     |             |
| \$6.00            | \$6.50               | \$7.50             | \$8.50                   |             |

With red, green or blue lens, add \$1.00 each. Furnished with standard screw sockets at above prices if desired.

### Stern Lights

WITH THREADED BASE GLOBE

CAST BRONZE

Equipped with clear fresnel lens and double contact or standard screw electric sockets.



Fig. 112

| Height Overall Inches | Diam. Base Inches    | Size of Globe Inches | Weight Lbs.          |
|-----------------------|----------------------|----------------------|----------------------|
| 8¾                    | 3½                   | 5x3½                 | 6.00                 |
| Plain Bronze Each     | Polished Bronze Each | Nickel Plated Each   | Chromium Plated Each |
| \$4.00                | \$4.50               | \$5.00               | \$6.00               |

With red, green or blue globe, add \$1.00 Each

### Mast Lights

WITH THREADED BASE GLOBE

CAST BRONZE

Equipped with clear fresnel lens and double contact or standard screw electric socket.



Fig. 113

| Height Overall Inches | For Mast Inches      | Size of Globe Inches | Weight Lbs.          |
|-----------------------|----------------------|----------------------|----------------------|
| 9                     | 2½                   | 5x3½                 | 6.50                 |
| Plain Bronze Each     | Polished Bronze Each | Nickel Plated Each   | Chromium Plated Each |
| \$4.50                | \$5.50               | \$6.50               | \$7.50               |

With red, green or blue globe, add \$1.00 Each

## Yard Arm Light

CAST BRONZE

Threaded base fresnel ball globe, cast bronze body and base for mounting on yard arm or mast truck. Standard screw electric socket.



Fig. 565

| Diam. Globe Inches   | Height Overall Inches | Size Base Inches     | Weight Lbs. |
|----------------------|-----------------------|----------------------|-------------|
| 4 1/4                | 5 3/4                 | 2 3/8 x 1 5/8        | 1 3/4       |
| Polished Bronze Each | Nickel Plated Each    | Chromium Plated Each |             |
| \$5.00               | \$5.50                | \$7.00               |             |

Furnished with 2 inch diameter round base if desired.

Furnished without base but having a 1/2 inch pipe thread for mounting on pipe—deduct \$.50 each from above prices—specify Fig. 564 when ordering.

## Mast Truck and Yardarm Fixture

CAST BRONZE



Fig. 104

Threaded base, fresnel ball globe, cast bronze fittings, standard Edison socket (medium screw base). Water-tight stuffing gland on side for wiring, two lugs on bottom for fastening to truck or yardarm, rubber gasket between globe and support. Absolutely water-tight.

| Height Overall Inches | Height Globe Inches  | Width to Ends of Lugs Inches | Inside Diam. Globe Inches | Weight Lbs. |
|-----------------------|----------------------|------------------------------|---------------------------|-------------|
| 5 5/8                 | 2 7/8                | 4 1/4                        | 2 1/4                     | 2           |
| Plain Bronze Each     | Polished Bronze Each | Nickel Plated Each           | Chromium Plated Each      |             |
| \$4.00                | \$5.00               | \$5.50                       | \$7.00                    |             |

With colored globe (red, green or blue), add \$1.00 each

## Special Mast Light

MEDIUM SCREW SOCKET—PORCELAIN BASE  
CAST BRONZE—THREADED GLOBE



Fig. 488



Fig. 489

Especially designed for use with tubular bulb, medium screw base.

Fig. 488 has 1/2 inch female pipe thread in base for mounting on pipe.

Fig. 489 has flat base not threaded but drilled for mounting on mast truck.

| Plain Bronze Each | Polished Bronze Each | Height Overall Inches | Diam. Base Inches | Size Globe Inches | Opening In globe Inches |
|-------------------|----------------------|-----------------------|-------------------|-------------------|-------------------------|
| \$2.50            | \$3.00               | 6                     | 2 3/4             | 5 1/2 x 2 3/4     | 1 1/8                   |

With Red, Green or Blue Globe add ..... \$ .50 Each  
Extra Clear Globes ..... .80 Each

## Mast Light

CAST BRONZE



Fig. 103

Threaded base, fresnel ball globe, cast bronze support and fittings, standard Edison socket (medium screw base). Globe is large enough to take 110 volt, 25 watt lamp. Base of light is threaded for 1/2 inch pipe, standard thread. Rubber gasket insures water-tight fitting.

| Height Overall Inches | Height Globe Inches  | Outside Diam. Globe Inches | Inside Diam. Globe Inches | Weight Lbs. |
|-----------------------|----------------------|----------------------------|---------------------------|-------------|
| 5 5/8                 | 2 7/8                | 3                          | 2 1/4                     | 2           |
| Plain Bronze Each     | Polished Bronze Each | Nickel Plated Each         | Chromium Plated Each      |             |
| \$4.00                | \$5.00               | \$5.50                     | \$7.00                    |             |

With colored globe (red, green or blue), add \$1.00 each

## Special Pole Light

MEDIUM SCREW SOCKET—PORCELAIN BASE  
CAST BRONZE—THREADED GLOBE

Has 1/2 inch female pipe thread in base. Globe will accommodate up to 75 watt bulb.



Fig. 309

| Height Overall Inches | Size Globe Inches | Opening In globe Inches | Plain Bronze Each | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |
|-----------------------|-------------------|-------------------------|-------------------|----------------------|--------------------|----------------------|
| 6 1/2                 | 5 x 3 1/2         | 2 3/4                   | \$4.00            | \$5.00               | \$6.00             | \$7.00               |



Fig. 470

Complete with switch, double contact electric socket, fresnel ball globe, hexagon nut fitted to base threaded 1/4 inch, 1/4 inch, or 3/8 inch iron pipe size. Designed for mounting on pipe to be used as flag pole light. 2 1/2 inch globe furnished unless 3 inch is specified.

When ordering, please specify size of thread. 1/2 inch shipped unless otherwise specified.

| Diam. Globe Inches | Height Overall Inches | Weight Oz. | Polished Brass Each | Nickel Plated Each | Chromium Plated Each |
|--------------------|-----------------------|------------|---------------------|--------------------|----------------------|
| 2 1/2 or 3         | 4 1/2                 | 10         | \$2.75              | \$3.00             | \$3.75               |



## 225 Degree or 20 Points of Compass MASTHEAD, TOWING OR RANGE LIGHTS American Improved Style

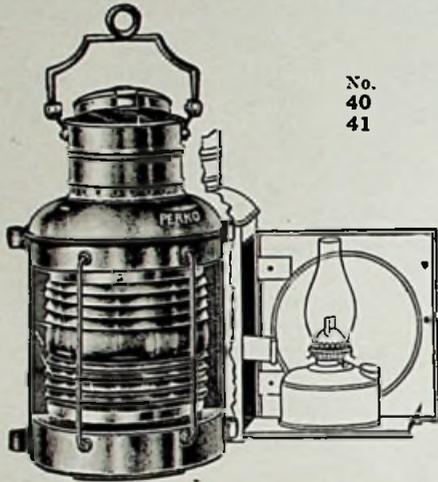


Fig. 981

OIL ONLY—OIL AND ELECTRIC OR ELECTRIC ONLY

| No. | Size of Lens                  |                                | Extreme Height<br>Less Handle<br>Inches | Size<br>Base<br>Inches          | Centers<br>of Lugs<br>Inches   |
|-----|-------------------------------|--------------------------------|---|---------------------------------|--------------------------------|
|     | Height<br>Inches              | Circum.<br>Inches              |   |                                 |                                |
| 40  | 6 <sup>3</sup> / <sub>8</sub> | 12 <sup>7</sup> / <sub>8</sub> | 14 <sup>1</sup> / <sub>2</sub>          | 7x7 <sup>1</sup> / <sub>2</sub> | 8 <sup>1</sup> / <sub>2</sub>  |
| 41  | 7                             | 17 <sup>1</sup> / <sub>4</sub> | 18 <sup>1</sup> / <sub>4</sub>          | 9x9 <sup>3</sup> / <sub>4</sub> | 10 <sup>3</sup> / <sub>4</sub> |

PRICE EACH—CLEAR LENS

| No. | Galvanized<br>Iron | Polished<br>Brass | Polished<br>Copper |
|-----|--------------------|-------------------|--------------------|
| 40  | \$24.00            | \$28.00           | \$31.00            |
| 41  | 27.50              | 33.50             | 39.50              |

FOR COMBINATION OIL AND ELECTRIC EQUIPMENT

For oil and one light electric equipment, add \$2.50 each.

For oil and two light electric equipment, add \$3.00 each.

For construction of this light and for Side, Bow and Anchor Lights to match see Page 24.

### Turret Top Style

OIL ONLY—OIL AND ELECTRIC OR ELECTRIC ONLY



Fig. 982

| No. | Size of Lens                  |                                | Extreme Height<br>Less Ring<br>Inches | Size<br>Base<br>Inches           |
|-----|-------------------------------|--------------------------------|---------------------------------------|----------------------------------|
|     | Height<br>Inches              | Circum.<br>Inches              |                                       |                                  |
| 42  | 6 <sup>3</sup> / <sub>8</sub> | 12 <sup>7</sup> / <sub>8</sub> | 15                                    | 7x 7 <sup>3</sup> / <sub>4</sub> |
| 43  | 7                             | 17 <sup>1</sup> / <sub>4</sub> | 18                                    | 9x10                             |

PRICE EACH—CLEAR LENS

| No. | Galvanized<br>Iron | Polished<br>Brass | Polished<br>Copper |
|-----|--------------------|-------------------|--------------------|
| 42  | \$15.50            | \$21.00           | \$27.00            |
| 43  | 20.50              | 27.50             | 33.50              |

FOR COMBINATION OIL AND ELECTRIC EQUIPMENT

No. 42—For oil and one light electric equipment, add \$1.50 each

No. 43—For oil and one light electric equipment, add \$2.00 each. Oil and two light electric equipment, add \$2.50 each.

For construction of this light and for Side, Bow and Anchor Lights to match see Page 22.

### Flat Top Electric Style ELECTRIC ONLY



Fig. 983

| No. | Size of Lens                  |                                | Extreme Height<br>Less Handle<br>Inches | Size<br>Base<br>Inches           | Centers<br>of Lugs<br>Inches  |
|-----|-------------------------------|--------------------------------|---|----------------------------------|-------------------------------|
|     | Height<br>Inches              | Circum.<br>Inches              |   |                                  |                               |
| 44  | 6 <sup>3</sup> / <sub>8</sub> | 12 <sup>7</sup> / <sub>8</sub> | 11                                      | 7x 7 <sup>3</sup> / <sub>4</sub> | 8 <sup>3</sup> / <sub>8</sub> |
| 45  | 7                             | 17 <sup>1</sup> / <sub>4</sub> | 13 <sup>1</sup> / <sub>2</sub>          | 9x10                             | 11                            |

PRICE EACH—CLEAR LENS

| No. | Galvanized<br>Iron | Polished<br>Brass | Polished<br>Copper |
|-----|--------------------|-------------------|--------------------|
| 44  | \$15.50            | \$21.00           | \$27.00            |
| 45  | 20.50              | 27.50             | 33.50              |

For construction of this light and for Side, Bow and Anchor Lights to match see Page 26.

FOR NEW STYLE 3 WIRE SOCKET AND SPECIAL 2 FILAMENT BULB, SEE PAGE 21.

# 135 Degree Stern Lights Or 16 Points of Compass

American Improved Style

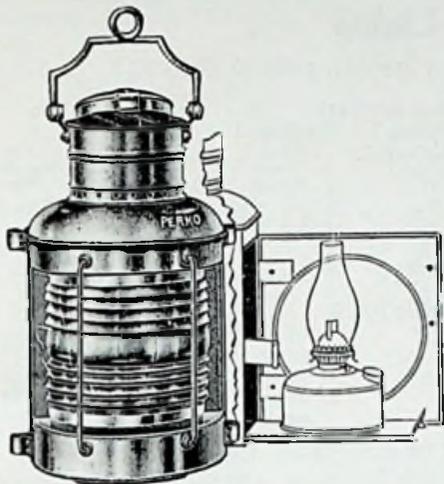


Fig. 984

Turret Top Style

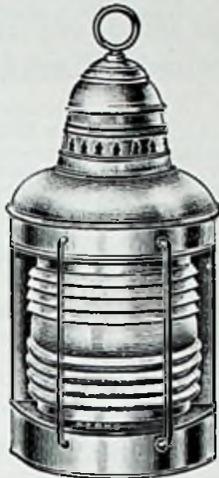


Fig. 985

Flat Top Electric Style



Fig. 986

FOR PRICES AND SIZES

FOR PRICES AND SIZES

FOR PRICES AND SIZES

No. 46—See Fig. 981, Lamp No. 40  
47—See Fig. 981, Lamp No. 41

No. 48—See Fig. 982, Lamp No. 42  
49—See Fig. 982, Lamp No. 43

No. 50—See Fig. 983, Lamp No. 44  
51—See Fig. 983, Lamp No. 45

No. 46, 48 and 50—Size of Lens  
No. 47, 49 and 51—Size of Lens

|        |         |
|--------|---------|
| Height | Circum. |
| 6 3/8  | x 6 3/8 |
| 7      | x 9 1/2 |

THE ABOVE LIGHTS ARE THE SAME CONSTRUCTION AS THOSE ILLUSTRATED ON PAGE 20 EXCEPT THAT THE LENS SHOWS A 135 DEGREE RADIUS OF LIGHT OR 16 POINTS OF THE COMPASS

## New Double Filament Bulbs DESIGNED FOR USE IN MARINE LAMPS 120 Volts—Mogul Base for Three Wire System



Bulb  
Fig. 532

|                         |        |
|-------------------------|--------|
| Bulb only—50-50 watts   | Each   |
| Bulb only—100-100 watts | \$4.80 |
| Socket only             | 5.00   |
|                         | 1.50   |

|                     |        |
|---------------------|--------|
| Height Bulb Overall | Inches |
| Diameter Bulb       | 5      |
|                     | 3 1/8  |



Porcelain Socket  
Fig. 533

LAMPS ARE ALWAYS PROPERLY FOCUSED, ELIMINATES THE METHOD OF USING TWO SEPARATE BULBS IN TWO LIGHT ELECTRIC INSTALLATIONS WHICH COULD NOT BE FOCUSED AND THEREFORE REDUCED THE LIGHT EFFICIENCY A GREAT DEAL.

These bulbs were recently developed for us by the General Electric Co. for use in the marine field. They are entirely new and have been badly needed. They contain a double filament in one bulb for use on a three wire tell tale system, so that when one filament burns out, it will be indicated on the tell tale panel. The remaining filament is immediately "switched" into use and as the single bulb is in the focal center of the fresnel lens maximum efficiency of the lamps is always obtained.

Can be furnished with lights on pages 20 to 31 inclusive.

### Turret Top Running Lights

Made of extra heavy metal. Galvanized lights are made of black steel and hot galvanized after they are formed. All have heavy wire guards and are furnished complete with burner, wick and brackets. Brass or copper lamps are highly polished. Solid brass screw oil or electric founts for these lights are shown on page 39, Fig. Nos. 282, 288, 289, 335.



Fig. 21

### Side Lights

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

| Lamp Nos. | Size of Lens  |             | Extreme Height Inches | Height of Frame Inches | Size Base Inches | Weight per Pair Lbs. | For Size Boat Feet |
|-----------|---------------|-------------|-----------------------|------------------------|------------------|----------------------|--------------------|
|           | Height Inches | Clr. Inches |                       |                        |                  |                      |                    |
| 8         | 5½            | 6¼          | 15½                   | 9½                     | 6½ x 7½          | 12                   | 65 to 75           |
| 9         | 5½            | 8½          | 16                    | 10½                    | 6½ x 8           | 15                   | 76 to 95           |
| 10        | 6¼            | 9           | 17½                   | 11½                    | 7½ x 9           | 17                   | 96 to 125          |
| 11        | 7½            | 11½         | 21¼                   | 13¼                    | 9½ x 12          | 29                   | 126 & up           |

#### PRICE PER PAIR

| Nos. | Galvanized |  | Brass   |  | Copper  |
|------|------------|--|---------|--|---------|
|      |            |  |         |  |         |
| 8    | \$18.00    |  | \$30.00 |  | \$42.00 |
| 9    | 20.00      |  | 35.00   |  | 46.00   |
| 10   | 22.00      |  | 37.00   |  | 50.00   |
| 11   | 34.00      |  | 50.00   |  | 60.00   |

FOR COMBINATION OIL AND ELECTRIC EQUIPMENT

Nos. 8, 9, 10—For oil and one light electric equipment, add \$3.00 per pair to above prices.

No. 11—For oil and one light electric equipment, add \$4.00 per pair. Oil and two light electric equipment, add \$5.00 per pair to above prices.

### 180 Degree Bow Lights

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

| Lamp Nos. | Size of Lens  |             | Extreme Height Inches | Height of Frame Inches | Size Base Inches | Weight Each Lbs. | For Size Boat Feet |
|-----------|---------------|-------------|-----------------------|------------------------|------------------|------------------|--------------------|
|           | Height Inches | Clr. Inches |                       |                        |                  |                  |                    |
| 14        | 5½            | 8¾          | 16½                   | 10½                    | 7 x 7            | 8                | 65 to 95           |
| 15        | 6¾            | 9½          | 17                    | 11                     | 7½ x 7           | 9                | 96 to 125          |
| 16        | 7             | 12½         | 21¼                   | 13¼                    | 9 x 9½           | 14               | 126 & up           |

#### PRICE EACH—CLEAR LENS

| Nos. | Galvanized |  | Brass   |  | Copper  |
|------|------------|--|---------|--|---------|
|      |            |  |         |  |         |
| 14   | \$12.00    |  | \$18.00 |  | \$23.00 |
| 15   | 13.50      |  | 19.00   |  | 25.00   |
| 16   | 18.00      |  | 25.00   |  | 31.00   |

WITH RED, GREEN OR BLUE LENSES

|    |         |         |         |
|----|---------|---------|---------|
| 14 | \$15.00 | \$21.00 | \$26.00 |
| 15 | 17.00   | 22.50   | 28.50   |
| 16 | 23.00   | 30.00   | 36.00   |

FOR COMBINATION OIL AND ELECTRIC EQUIPMENT

No. 14 and 15—For oil and one light electric equipment, add \$1.50 each to above prices.

No. 16—For oil and one light electric equipment, add \$2.00 each. Oil and two light electric equipment, add \$2.50 each to above prices.



Fig. 22

### Anchor or Riding Lights

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

| Lamp Nos. | Size of Lens  |              | Extreme Height Inches | Height of Frame Inches | Diam. of Base Inches | Weight Each Lbs. | For Size Boat Feet |
|-----------|---------------|--------------|-----------------------|------------------------|----------------------|------------------|--------------------|
|           | Height Inches | Diam. Inches |                       |                        |                      |                  |                    |
| 22        | 5¾            | 6            | 17                    | 11                     | 7½                   | 9                | 65 to 95           |
| 22½       | 6¾            | 6            | 18½                   | 12½                    | 7½                   | 10               | 96 to 125          |
| 23        | 7             | 8            | 21½                   | 14¼                    | 9½                   | 16               | 126 & up           |

#### PRICE EACH—CLEAR LENS

| Nos. | Galvanized |  | Brass   |  | Copper  |
|------|------------|--|---------|--|---------|
|      |            |  |         |  |         |
| 22   | \$12.00    |  | \$19.00 |  | \$25.00 |
| 22½  | 14.00      |  | 20.00   |  | 27.00   |
| 23   | 18.00      |  | 26.50   |  | 34.00   |

WITH RED, GREEN OR BLUE LENSES

|     |         |         |         |
|-----|---------|---------|---------|
| 22  | \$15.00 | \$22.00 | \$28.00 |
| 22½ | 17.50   | 23.50   | 30.50   |
| 23  | 23.00   | 31.50   | 39.00   |

FOR COMBINATION OIL AND ELECTRIC EQUIPMENT

No. 22 and 22½—For oil and one light electric equipment, add \$1.50 each to above prices.

No. 23—For oil and one light electric equipment, add \$2.00 each. For oil and two light electric equipment, add \$2.50 each to above prices.



Fig. 23



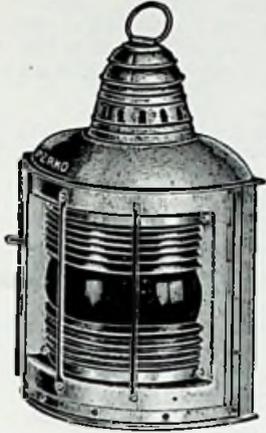
## "Perko" Turret Top De-Lite Running Lights

FOR TUG BOATS OR ANY VESSEL 96 TO 125 FEET IN LENGTH

The "Perko" front door motor boat lights have proven such a success that a demand has been created for the larger lights containing the same features. Front door stamped from one piece of brass for both the galvanized and brass lights. Copper lights have heavy sheet copper door. Lens and guards fastened with screws can easily be replaced, nickel plated brass reflector, brass oil fount leak-proof, electric socket set in back of oil fount and properly focused. Standard Edison socket (medium screw base).

PATENTED AND OTHER PATENTS PENDING

### De-Lite Side Lights



(Closed)  
Fig. 0-21

Furnished } Red for Port  
in Pairs } Green for Starboard

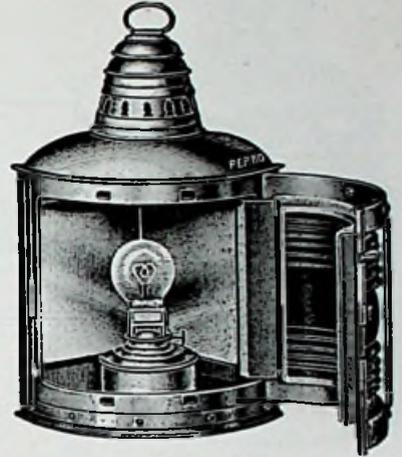
#### NO. 10 SIZE

Extreme height, 17½ inches  
Height of frame, 11½ inches  
Width, 7½ inches x 9 inches  
Size of lens, 6¾ inches x 9 inches  
Net weight, per pair, 17 pounds.

#### PRICE PER PAIR

|                  | Galvanized<br>Iron | Polished<br>Brass | Polished<br>Copper |
|------------------|--------------------|-------------------|--------------------|
| Oil or Electric  | \$22.00            | \$37.00           | \$50.00            |
| Oil and Electric | 25.00              | 40.00             | 53.00              |

For oil and two light electric equipment, add \$1.00 per pair to above prices on oil and electric.



(Opened)

### 180 Degree De-Lite Bow Lights

#### NO. 15 SIZE

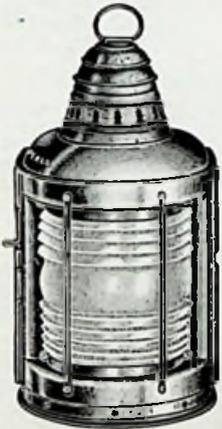
Extreme height, 17 inches  
Height of frame, 11 inches  
Width, 7½ inches x 7 inches  
Size of lens, 6¾ inches x 9½ inches  
Net weight, each, 9 pounds

#### PRICE EACH—CLEAR LENS

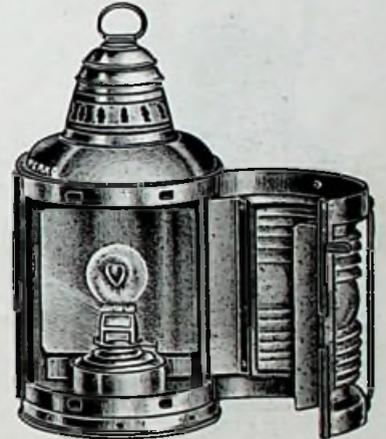
|                  | Galvanized<br>Iron | Polished<br>Brass | Polished<br>Copper |
|------------------|--------------------|-------------------|--------------------|
| Oil or Electric  | \$13.50            | \$19.50           | \$25.00            |
| Oil and Electric | 15.00              | 20.50             | 26.50              |

For oil and two light electric equipment, add \$ .50 each to above prices on oil and electric.

With red, green or blue lens, add \$3.50 each to above prices.



(Closed)  
Fig. 0-22



(Opened)

### De-Lite Anchor Lights

Furnished with fresnel lens, 360 degree, and the "Perko" 2 in 1 oil and electric fount, swivel type (patent applied for).

#### NO. 22½ SIZE

Extreme height, 18½ inches  
Height of frame, 12½ inches  
Diameter of base, 7½ inches  
Size of lens, 6¾ inches x 6 inches  
Net weight, each, 10 pounds

#### PRICE EACH—CLEAR LENS

|                  | Galvanized<br>Iron | Polished<br>Brass | Polished<br>Copper |
|------------------|--------------------|-------------------|--------------------|
| Oil or Electric  | \$14.00            | \$20.00           | \$27.00            |
| Oil and Electric | 15.50              | 21.50             | 28.50              |

With red, green or blue lens, add \$3.50 each to above prices.

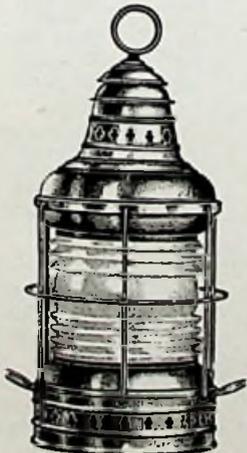


Fig. 0-23



Fig. 335

All the above lights are guaranteed to pass the requirements of the U. S. Steamboat Inspection Department.



### American Improved Running Lights

Made of extra heavy metal. Galvanized lights are made of black steel and hot galvanized after they are formed. Brass and copper lights are in natural finish, highly polished. Furnished complete with hinged back door, sliding fount, burner, wick and chimney.

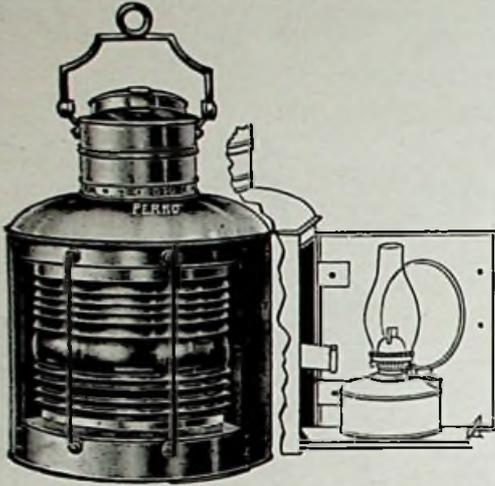


Fig. 24

### Side Lights

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

Furnished } Red for Port  
in Pairs } Green for Starboard

| Lamp Nos. | Size of Lens Height Inches | Size of Lens Cir. Inches | Extreme Height Inches | Height of Frame Inches | Width Inches   | Weight per Pair Lbs. | For Size Boat Feet |
|-----------|----------------------------|--------------------------|-----------------------|------------------------|----------------|----------------------|--------------------|
| 62        | 5 3/4                      | 8 1/2                    | 13 1/2                | 10 1/2                 | 6 1/2 x 7 3/4  | 18                   | 75 to 95           |
| 63        | 6 3/4                      | 9                        | 15                    | 11 3/4                 | 7 3/4 x 8 3/4  | 21                   | 96 to 125          |
| 64        | 7 1/2                      | 11 1/2                   | 18                    | 13 1/2                 | 9 1/2 x 11 1/2 | 36                   | 126 & up           |

#### PRICE PER PAIR

| Lamp Nos. | Galvanized Iron | Polished Brass | Polished Copper |
|-----------|-----------------|----------------|-----------------|
| 62        | \$36.00         | \$43.00        | \$56.00         |
| 63        | 38.00           | 45.00          | 60.00           |
| 64        | 48.00           | 66.00          | 74.00           |

FOR COMBINATION OIL AND ELECTRIC EQUIPMENT

For oil and one light electric equipment, add \$5.00 per pair to above prices.

For oil and two light electric equipment, add \$6.00 per pair to above prices.

### 180 Degree Bow Lights

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

| Lamp Nos. | Size of Lens Height Inches | Size of Lens Cir. Inches | Extreme Height Inches | Height of Frame Inches | Width Inches | Weight Each Lbs. | For Size Boat Feet |
|-----------|----------------------------|--------------------------|-----------------------|------------------------|--------------|------------------|--------------------|
| 76        | 5 1/2                      | 9 1/2                    | 14                    | 11                     | 7 x 7        | 10               | 65 to 95           |
| 77        | 6 3/4                      | 9 1/2                    | 15                    | 11 3/4                 | 7 x 7        | 11               | 96 to 125          |
| 78        | 7                          | 12 1/2                   | 18                    | 13 1/2                 | 9 x 9 1/2    | 17               | 126 & up           |

#### PRICE EACH—CLEAR LENS

| Lamp Nos. | Galvanized Iron | Polished Brass | Polished Copper |
|-----------|-----------------|----------------|-----------------|
| 76        | \$20.00         | \$24.00        | \$28.00         |
| 77        | 22.00           | 26.00          | 29.00           |
| 78        | 25.00           | 31.00          | 37.00           |

WITH RED, GREEN OR BLUE LENSES

|    |         |         |         |
|----|---------|---------|---------|
| 76 | \$23.00 | \$27.00 | \$31.00 |
| 77 | 25.50   | 29.50   | 32.50   |
| 78 | 30.00   | 36.00   | 42.00   |

FOR COMBINATION OIL AND ELECTRIC EQUIPMENT

For oil and one light electric equipment, add \$2.50 each to above prices.

For oil and two light electric equipment, add \$3.00 each to above prices.

### Anchor or Riding Lights

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

| Lamp Nos. | Size of Lens Height Inches | Size of Lens Diam. Inches | Extreme Height Inches | Height of Frame Inches | Diam. of Base Inches | Weight Each Lbs. | For Size Boat Feet |
|-----------|----------------------------|---------------------------|-----------------------|------------------------|----------------------|------------------|--------------------|
| 84        | 5 3/4                      | 6                         | 13 3/4                | 11 1/4                 | 7 3/4                | 10               | 65 to 95           |
| 85        | 6 3/4                      | 6                         | 15 3/4                | 12 1/4                 | 7 3/4                | 12               | 96 to 125          |
| 86        | 7                          | 8                         | 17                    | 13 3/4                 | 9 1/2                | 18               | 126 & up           |

#### PRICE EACH—CLEAR LENS

| Lamp Nos. | Galvanized Iron | Polished Brass | Polished Copper |
|-----------|-----------------|----------------|-----------------|
| 84        | \$14.00         | \$21.00        | \$28.00         |
| 85        | 15.00           | 22.00          | 29.00           |
| 86        | 22.00           | 32.00          | 36.00           |

WITH RED, GREEN OR BLUE LENSES

|    |         |         |         |
|----|---------|---------|---------|
| 84 | \$17.00 | \$24.00 | \$31.00 |
| 85 | 18.50   | 25.50   | 32.50   |
| 86 | 27.00   | 37.00   | 41.00   |

FOR COMBINATION OIL AND ELECTRIC EQUIPMENT

No. 84 and 85—Oil and one light electric equipment, add \$1.50 each to above prices.

No. 86—Oil and one light electric equipment, add \$2.00 each; oil and two light electric equipment, add \$2.50 each to above prices.

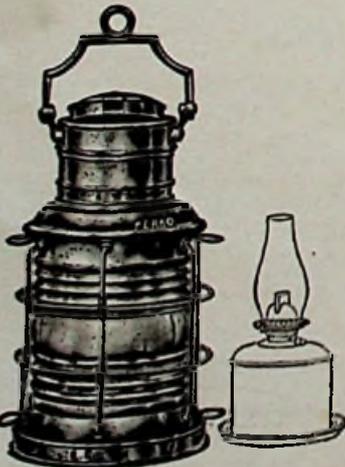


Fig. 26



## "Perko" American Improved De-Lite Running Lights FOR VESSELS 96 TO 125 FEET IN LENGTH

The most practical and dependable running lights on the market for large vessels. They contain the same principles of construction as the American improved lights specified by the U. S. Shipping Board for use on American vessels and shown on page 24, except that these are further improved by the adoption of the front door instead of a back door. These lights can be mounted permanently. Interior can be cleaned or oil lamp lighted while light is mounted. Old style back door lights will not allow permanent mounting.

PATENTED AND OTHER PATENTS PENDING

### De-Lite Side Lights

Furnished } Red for Port  
in Pairs } Green for Starboard

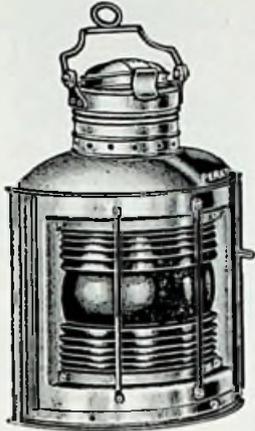
#### NO. 63 SIZE

Extreme height, 15 inches  
Height of frame, 11 1/4 inches  
Width, 7 1/2 inches x 8 1/2 inches  
Size of lens, 6 1/2 inches x 9 inches  
Weight, per pair, 21 pounds

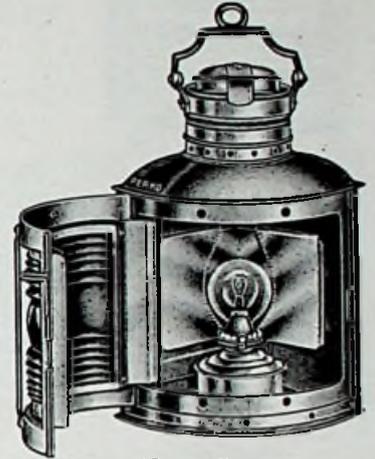
#### PRICE PER PAIR

|                  | Galvanized Iron | Polished Brass | Polished Copper |
|------------------|-----------------|----------------|-----------------|
| Oil or Electric  | \$38.00         | \$45.00        | \$60.00         |
| Oil and Electric | 43.00           | 50.00          | 65.00           |

For oil and two light electric equipment, add \$1.00 per pair to above prices on oil and electric.



(Closed)  
Fig. 0-24



(Opened)

### 180 Degree De-Lite Bow Lights

#### NO. 77 SIZE

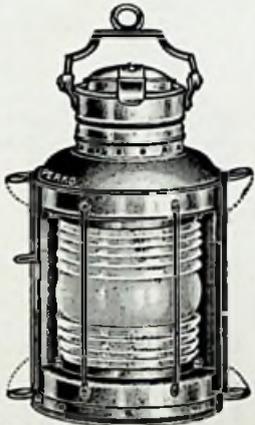
Extreme height, 15 inches  
Height of frame, 11 1/4 inches  
Width, 7 inches x 7 inches  
Size of lens, 6 inches x 9 1/2 inches  
Weight, each, 11 pounds

#### PRICE EACH—CLEAR LENS

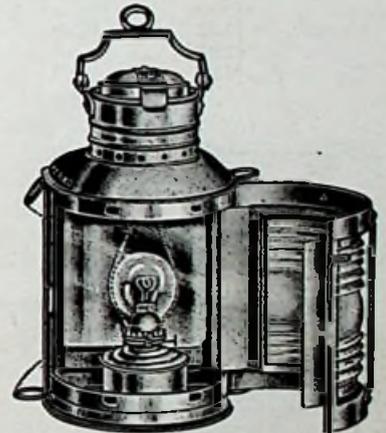
|                  | Galvanized Iron | Polished Brass | Polished Copper |
|------------------|-----------------|----------------|-----------------|
| Oil or Electric  | \$22.00         | \$26.00        | \$29.00         |
| Oil and Electric | 24.50           | 28.50          | 31.50           |

With oil and two light electric equipment, add \$ .50 each to above prices, on oil and electric.

With red, green or blue lenses, add \$3.50 to above prices.



(Closed)  
Fig. 0-25



(Opened)

### De-Lite Anchor Lights

Furnished with fresnel lens, 360 degree, and the "Perko" 2 in 1 oil and electric fount, swivel type (patent applied for).

#### NO. 85 SIZE

Extreme height, 15 1/2 inches  
Height of frame, 12 1/4 inches  
Diameter of base, 7 1/4 inches  
Size of lens, 6 inches x 6 inches  
Net weight, each, 12 pounds

#### PRICE EACH—CLEAR LENS

|                  | Galvanized Iron | Polished Brass | Polished Copper |
|------------------|-----------------|----------------|-----------------|
| Oil or Electric  | \$15.00         | \$22.00        | \$29.00         |
| Oil and Electric | 16.50           | 23.50          | 30.50           |

With red, green or blue lenses, add \$3.50 each to above prices.

All the above lights are guaranteed to pass the requirements of the U. S. Steamboat Inspection Department.



Fig. 0-26



Fig. 335

**Electric Regulation Size Running Lights**

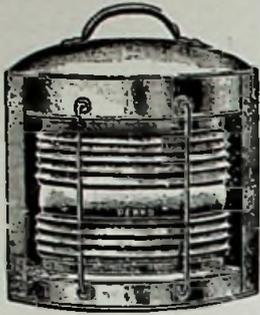


Fig. 30



Fig. 31



Fig. 32

| Side Lights Fig. 30 | Nos. | Size of Lens Inches | Height less Handle Inches | Extreme Height Inches | Size Base Inches | Net Weight per Pair Lbs. | Price Per Pair |         |         |
|---------------------|------|---------------------|---------------------------|-----------------------|------------------|--------------------------|----------------|---------|---------|
|                     |      |                     |                           |                       |                  |                          | Galv.          | Brass   | Copper  |
|                     | 109  | 5 3/4 x 8 1/2       | 10 1/2                    | 13                    | 6 1/2 x 8        | 13 1/2                   | \$20.00        | \$35.00 | \$46.00 |
|                     | 110  | 6 3/4 x 9           | 11 3/4                    | 14 1/4                | 7 1/2 x 9        | 15 1/2                   | 22.00          | 37.00   | 50.00   |
|                     | 111  | 7 1/2 x 11 1/2      | 13 1/2                    | 16                    | 9 1/2 x 12       | 23                       | 34.00          | 50.00   | 60.00   |

| Bow Light Fig. 31 | Nos. | Size of Lens Inches | Height less Handle Inches | Extreme Height Inches | Size Base Inches | Net Weight Each Lbs. | Price Each, Clear Lens |         |         |
|-------------------|------|---------------------|---------------------------|-----------------------|------------------|----------------------|------------------------|---------|---------|
|                   |      |                     |                           |                       |                  |                      | Galv.                  | Brass   | Copper  |
|                   | 114  | 5 1/2 x 9 1/2       | 11                        | 13 1/2                | 7 x 7            | 6                    | \$12.00                | \$18.00 | \$23.00 |
|                   | 115  | 6 3/8 x 9 1/2       | 11 3/4                    | 14 1/4                | 7 1/2 x 7        | 6 1/2                | 13.50                  | 19.00   | 25.00   |
|                   | 116  | 7 x 12 1/2          | 13 1/2                    | 16                    | 9 x 9 1/2        | 10 1/2               | 18.00                  | 25.00   | 31.00   |

With Ruby, Green or Blue Lens

|         |       |       |       |
|---------|-------|-------|-------|
| No. 114 | 15.00 | 21.00 | 26.00 |
| No. 115 | 17.00 | 22.50 | 28.50 |
| No. 116 | 23.00 | 30.00 | 36.00 |

| Anchor Light Fig. 32 | Nos.    | Size of Lens Inches | Height less Handle Inches | Extreme Height Inches | Diameter Inches | Net Weight Each Lbs. | Price Each, Clear Lens |         |         |
|----------------------|---------|---------------------|---------------------------|-----------------------|-----------------|----------------------|------------------------|---------|---------|
|                      |         |                     |                           |                       |                 |                      | Galv.                  | Brass   | Copper  |
|                      | 122     | 5 3/8 x 6           | 11 1/4                    | 13 3/4                | 7 1/2           | 8                    | \$12.00                | \$19.00 | \$25.00 |
|                      | 122 1/2 | 6 5/8 x 6           | 12 1/4                    | 14 3/4                | 7 1/2           | 10 1/2               | 14.00                  | 20.00   | 27.00   |
|                      | 123     | 7 x 8               | 12 5/8                    | 15 1/2                | 9 1/2           | 15                   | 18.00                  | 26.50   | 34.00   |

With Ruby, Green or Blue Lens

|             |       |       |       |
|-------------|-------|-------|-------|
| No. 122     | 15.00 | 22.00 | 28.00 |
| No. 122 1/2 | 17.50 | 23.50 | 30.50 |
| No. 123     | 23.00 | 31.50 | 39.00 |

**Extra Heavy Large Size 8-Inch Face Lights**

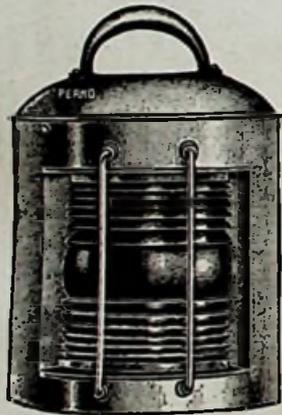


Fig. 33



Fig. 34



Fig. 35

|                    |                     |               |                           |        |                       |    |                  |            |                          |    |                 |       |         |        |         |
|--------------------|---------------------|---------------|---------------------------|--------|-----------------------|----|------------------|------------|--------------------------|----|-----------------|-------|---------|--------|---------|
| Side Light—Fig. 33 | Size of Lens Inches | 8 7/8 x 9 3/4 | Height less Handle Inches | 15 1/2 | Extreme Height Inches | 18 | Size Base Inches | 9 1/2 x 11 | Net Weight per Pair Lbs. | 30 | Price per Pair— | Brass | \$72.00 | Copper | \$80.00 |
|--------------------|---------------------|---------------|---------------------------|--------|-----------------------|----|------------------|------------|--------------------------|----|-----------------|-------|---------|--------|---------|

|                        |                     |            |                           |        |                       |        |                  |            |                      |    |                         |       |         |        |         |
|------------------------|---------------------|------------|---------------------------|--------|-----------------------|--------|------------------|------------|----------------------|----|-------------------------|-------|---------|--------|---------|
| Masthead Light—Fig. 34 | Size of Lens Inches | 8 7/8 x 20 | Height less Handle Inches | 14 1/4 | Extreme Height Inches | 16 7/8 | Size Base Inches | 12 x 9 3/4 | Net Weight Each Lbs. | 18 | Price Each, Clear Lens— | Brass | \$66.00 | Copper | \$78.00 |
|                        |                     |            |                           |        |                       |        |                  |            |                      |    | 72.00                   |       | 84.00   |        |         |

With Two Ruby or Green Lenses

|                      |                     |       |                           |        |                       |        |                 |       |                      |    |                         |       |         |        |         |
|----------------------|---------------------|-------|---------------------------|--------|-----------------------|--------|-----------------|-------|----------------------|----|-------------------------|-------|---------|--------|---------|
| Anchor Light—Fig. 35 | Size of Lens Inches | 7 x 8 | Height less Handle Inches | 12 5/8 | Extreme Height Inches | 15 1/2 | Diameter Inches | 9 1/2 | Net Weight Each Lbs. | 15 | Price Each, Clear Lens— | Brass | \$26.50 | Copper | \$34.00 |
|                      |                     |       |                           |        |                       |        |                 |       |                      |    | 31.50                   |       | 39.00   |        |         |

With Ruby, Green or Blue Lens

Lights Nos. 109, 110, 114, 115, 122, 122 1/2 furnished with one light electric equipment. All other sizes can be furnished with one or two light electric equipment at the above prices.

## "Perko" Flat Top De-Lite Running Lights

FOR VESSELS 96 TO 125 FEET IN LENGTH

Used for practicability and appearance, front door stamped in one piece, lens and guards fastened with screws, nickel plated brass reflector, large capacity oil fount—leak-proof. No. 2 oil burner, electric socket in back of oil fount, properly focused, Standard Edison Socket (medium screw base).

PATENTED AND OTHER PATENTS PENDING

### De-Lite Side Lights

Furnished } Red for Port  
in Pairs } Green for Starboard

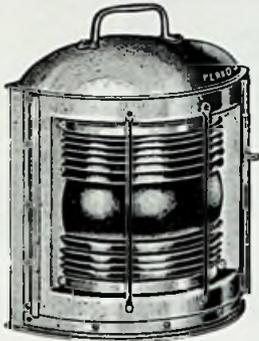
NO. 110 SIZE

Extreme height, 14¼ inches  
Height, less handle, 11¾ inches  
Width, 7¼ inches x 9 inches  
Size of lens, 6¾ inches x 9 inches  
Net weight, per pair, 15½ pounds

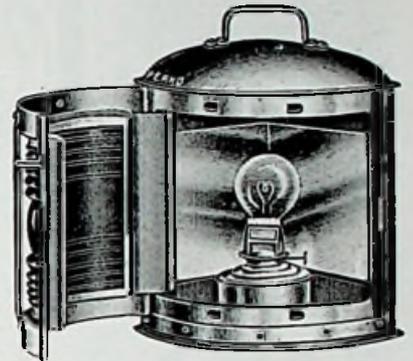
PRICE PER PAIR

|                  | Galvanized Iron | Polished Brass | Polished Copper |
|------------------|-----------------|----------------|-----------------|
| Oil or Electric  | \$22.00         | \$37.00        | \$50.00         |
| Oil and Electric | 25.00           | 40.00          | 53.00           |

For oil and two light electric equipment, add \$1.00 per pair to above prices on oil and electric.



(Closed)  
Fig. 0-27



(Opened)

### 180 Degree De-Lite Bow Lights

NO. 115 SIZE

Extreme height, 14¼ inches  
Height, less handle, 11¾ inches  
Width, 7½ inches x 7 inches  
Size of lens, 6¾ inches x 9½ inches  
Net weight, each, 6½ pounds

PRICE EACH—CLEAR LENS

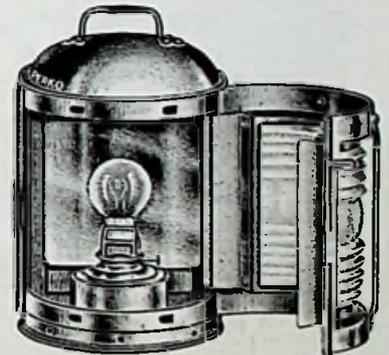
|                  | Galvanized Iron | Polished Brass | Polished Copper |
|------------------|-----------------|----------------|-----------------|
| Oil or Electric  | \$13.50         | \$19.00        | \$25.00         |
| Oil and Electric | 15.00           | 20.50          | 26.50           |

For oil and two light electric equipment, add \$ .50 each to above prices on oil and electric.

With red, green or blue lens, add \$3.50 to above prices.



(Closed)  
Fig. 0-28



(Opened)

### De-Lite Anchor Lights

Furnished with fresnel lens, 360 degree, and the "Perko" 2 in 1 oil and electric fount, swivel type (patent applied for).

NO. 122½ SIZE

Extreme height, 14¾ inches  
Height, less handle, 12¼ inches  
Diameter of base, 7½ inches  
Size of lens, 6 inches x 6¾ inches  
Net weight, each, 10½ pounds

|                  | Galvanized Iron | Polished Brass | Polished Copper |
|------------------|-----------------|----------------|-----------------|
| Oil or Electric  | \$14.00         | \$20.00        | \$27.50         |
| Oil and Electric | 15.50           | 21.50          | 28.50           |

With red, green or blue lens, add \$3.50 to above prices.



Fig. 0-29



Fig. 335

The above lights are guaranteed to pass the requirements of the U. S. Steamboat Inspection Department.

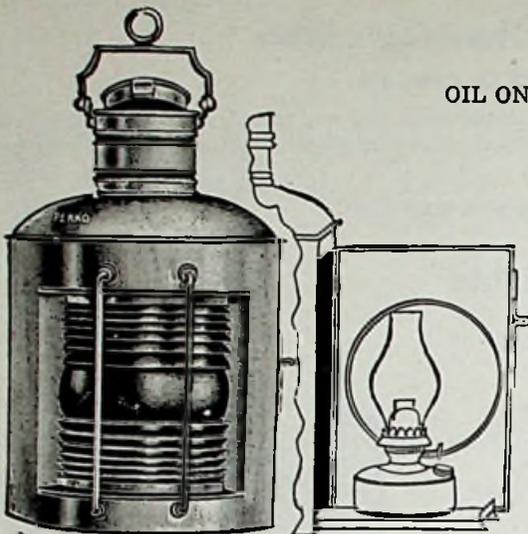


Fig. 27

### 8-Inch Face Side Lights

LARGE SIZE—EXTRA HEAVY

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

Same construction as the American improved running lights but of heavier metal and in larger size, used on the larger ocean going vessels. Has heavy cast bronze trimmings, heavy wire guards, soldered and reinforced, body riveted and soldered, back door and sliding fount, burner wick. Chimney and reflector are included in the standard equipment. Standard Edison sockets used in electric equipment.

Furnished } Red for Port  
in Pairs } Green for Starboard

Extreme height, 20 1/4 inches  
Height of frame, 15 1/2 inches  
Width, 9 1/2 inches x 11 inches  
Size of lens, 8 3/4 inches x 9 3/4 inches  
Weight, per pair, 36 pounds

Oil or electric only  
Oil and one light electric  
Oil and two light electric

| PRICE PER PAIR |         |
|----------------|---------|
| Brass          | Copper  |
| \$72.00        | \$80.00 |
| 77.00          | 85.00   |
| 78.00          | 86.00   |

### 8-Inch Double Face Masthead—Bow Range or Stern Lights

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

Same construction as side light above, equipped with two 8-inch clear fresnel lenses, back door, sliding fount, No. 2 dual burner and chimney, nickel plated reflector. Electric equipment consists of one or two standard Edison porcelain sockets mounted on sliding platform. Colored lenses, red or green.

Extreme height, 20 1/4 inches  
Height of frame, 14 1/4 inches  
Width, 12 inches x 9 3/4 inches  
Size of lens, 8 3/4 inches x 20 inches  
Net weight, each, 19 pounds

With clear lenses—Oil or Electric only  
With colored lenses—Oil or Electric only

| PRICE EACH |         |
|------------|---------|
| Brass      | Copper  |
| \$66.00    | \$78.00 |
| 72.00      | 85.00   |

#### COMBINATION OIL AND ELECTRIC EQUIPMENT

Oil and one light electric equipment, add \$2.50 each to above prices.  
Oil and two light electric equipment, add \$3.00 each to above prices.

### 8-Inch Anchor or Riding Lights

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

Extra heavy construction, for use on large ocean going vessels. Equipped with 8-inch diameter fresnel lens, large swivel fount, No. 2 dual burner and chimney. Electric equipment consists of one or two electric Edison porcelain sockets mounted on one base. Colored fresnel lens, red, green or blue.

Extreme height, 17 inches  
Height of frame, 12 1/2 inches  
Diameter of base, 9 1/2 inches  
Size of lens, 7 inches x 8 inches  
Net weight, each, 18 pounds

With clear lens—Oil or Electric only  
With colored lens—Oil or Electric only

| PRICE EACH |         |         |
|------------|---------|---------|
| Galvanized | Brass   | Copper  |
| \$22.00    | \$32.00 | \$36.00 |
| 27.00      | 37.00   | 41.00   |

#### COMBINATION OIL AND ELECTRIC EQUIPMENT

For oil and one light electric equipment, add \$2.00 to above prices.  
For oil and two light electric equipment, add \$2.50 to above prices.

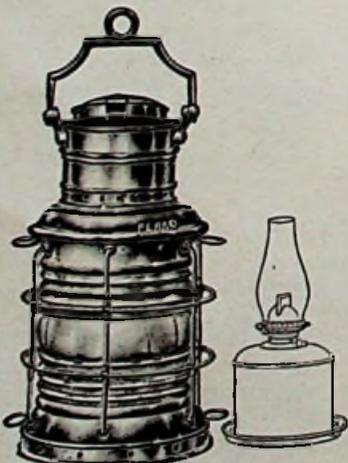


Fig. 29

## Norwegian Regulation Running Lights

GUARANTEED TO PASS NORWEGIAN REGULATIONS ON RUNNING LIGHTS

Standard running lights of heavy construction for deep water vessels of Norwegian registry. Standard equipment consists of clear fresnel lens with colored glass shades on side lights, large oil fount, 14 ligne cosmos burner and chimney, back door on side, masthead and stern lights, hinged top on anchor lights.

TO BURN OIL OR ELECTRIC



Fig. 36



Fig. 37



Fig. 38



Fig. 39

| Fig. |                 | Size of Lens  |             | Extreme Height Inches | Height of Frame Inches | Width Inches   | Net Weight Lbs. | Unit | Price   |          |
|------|-----------------|---------------|-------------|-----------------------|------------------------|----------------|-----------------|------|---------|----------|
|      |                 | Height Inches | Cir. Inches |                       |                        |                |                 |      | Galv.   | Copper   |
| 36   | Side Lights     | 7             | 12 1/4      | 21 1/2                | 14                     | 9 1/2 x 12     | 37              | Pair | \$65.00 | \$115.00 |
| 37   | Masthead Lights | 7 1/2         | 21          | 21 1/2                | 14                     | 11 x 11 1/4    | 27              | Each | 50.00   | 65.00    |
| 38   | Stern Lights    | 7 1/2         | 10 3/4      | 21 1/2                | 14                     | 10 1/4 x 9 1/4 | 17              | Each | 45.00   | 60.00    |
| 39   | Anchor Lights   | 7 1/2         | 10 diam.    | 21 1/2                | 14                     | 10 1/2 diam.   | 22              | Each | 45.00   | 60.00    |

### COMBINATION OIL AND ELECTRIC EQUIPMENT

For combination oil and electric, add \$3.00 to above prices.

Extra colored shades with brass frame for side lights, price, each, \$3.50.

## English Regulation Running Lights

GUARANTEED TO PASS INSPECTION OF THE BRITISH BOARD OF TRADE

Standard running lights of heavy construction for deep water vessels of British registry and according to specifications of the British Board of Trade. Standard equipment consists of high grade clear fresnel lens with colored glass shade in back of lens on side lights, English cone burner and chimney, as shown on pages 45, 51, heavy nickel plated reflector, T shaped bracket. Top of light opens on cast bronze hinge.

TO BURN OIL OR ELECTRIC

Side



Fig. 40

Masthead



Fig. 41

Stern



Fig. 48

Anchor



Fig. 42

| Fig. |                 | Size of Lens  |             | Extreme Height Inches | Height of Frame Inches | Width Inches    | Net Weight Lbs. | Unit | Price   |          |
|------|-----------------|---------------|-------------|-----------------------|------------------------|-----------------|-----------------|------|---------|----------|
|      |                 | Height Inches | Cir. Inches |                       |                        |                 |                 |      | Galv.   | Copper   |
| 40   | Side Lights     | 7             | 12 1/4      | 20 3/4                | 14 1/4                 | 9 1/2 x 11 3/4  | 32              | Pair | \$65.00 | \$115.00 |
| 41   | Masthead Lights | 7 1/2         | 21          | 22                    | 15 1/2                 | 11 1/4 x 11 1/4 | 30              | Each | 50.00   | 65.00    |
| 48   | Stern Lights    | 7 1/2         | 10 3/4      | 21 1/2                | 14                     | 10 1/2 x 9 1/4  | 20              | Each | 45.00   | 60.00    |
| 42   | Anchor Lights   | 7 1/2         | 10 diam.    | 20 1/2                | 14                     | 10 1/2 diam.    | 24              | Each | 45.00   | 60.00    |

### COMBINATION OIL AND ELECTRIC EQUIPMENT

For combination oil and electric, add \$5.00 to above prices.

Extra colored shades for side lights—Price, each, \$3.00.

Electric socket is standard Edison (medium screw base) or double contact English bayonet type.

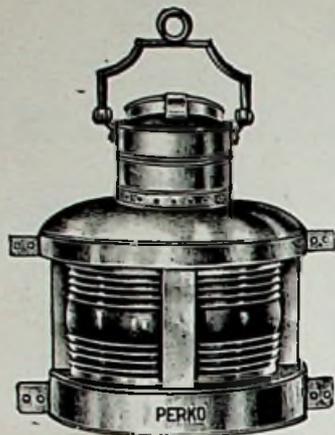


Fig. 62

### Ferry Boat Side Lights

FOR DOUBLE END BOATS

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

Made from heavy sheet metal, cast bronze handle. (Galvanized lamps are made from black steel and hot galvanized after all formed up.) Brass and copper lamps formed from half hard or cold rolled. Two fresnel lenses (red and green), with inside partition dividing colors. Separate founts in each compartment, oil or electric. Has two back doors. Four lugs for fastening lamp. Made in two sizes.

| Size of Lenses Inches | Extreme Height Inches | Size of Base Inches | Extreme Width Inches | Net Wgt. Each Lbs. | Extreme Height Flat Top |         | Price Each |          |  |
|-----------------------|-----------------------|---------------------|----------------------|--------------------|-------------------------|---------|------------|----------|--|
|                       |                       |                     |                      |                    | Elec. Inches            | Galv.   | Brass      | Copper   |  |
| 6 3/4 x 9             | 19                    | 14 1/2 x 10         | 17 1/2               | 21                 | 13                      | \$65.00 | \$110.00   | \$130.00 |  |
| 7 1/2 x 11 1/2        | 21 1/4                | 17 1/4 x 11 1/2     | 20 3/8               | 27                 | 15 1/2                  | 84.00   | 130.00     | 150.00   |  |

Can also be had with flat top—electric only, same price as above

For combination Oil and Electric, add \$3.00 to above prices.



Fig. 61

### Pilot House Lights—For Ferry Boats

HEXAGON SHAPE

Made from 32 ounce copper (cold rolled). Spun ball top, shaped body joined together with braces inside and well soldered. Glass is 3/8 inch thick, rubber packing all around, then slid into a copper frame, which is held together by screws and wing nuts. Front hinge door, two light electric fixture on the inside. Made according to specifications.

| Size Nos. | Height Overall Inches | Size of Lenses Inches | Diam. of Base Inches | Net Weight Lbs. | Price Each |          |
|-----------|-----------------------|-----------------------|----------------------|-----------------|------------|----------|
|           |                       |                       |                      |                 | Brass      | Copper   |
| 1         | 38                    | 8 3/4 x 15            | 15                   | 55              | \$250.00   | \$275.00 |
| 2         | 53 1/4                | 8 3/4 x 20            | 15                   | 80              | 275.00     | 300.00   |

(Price does not include gilding)

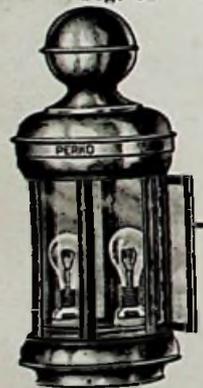


Fig. 79

### Pilot House Light—For Small Size Ferry Boats

ROUND BODY WITH HEXAGON SHAPED PANELS

Spun from 32 ounce, cold rolled copper. Front hinge door, two light electric, 3/8 inch thick glasses. Rubber packing around glass held in place by screws and wing nuts.

| Height Overall Inches | Size of Glass Inches | Diam. of Base Inches | Net Weight Lbs. | Price Each Polished Copper |
|-----------------------|----------------------|----------------------|-----------------|----------------------------|
| 24                    | 3 3/4 x 10           | 8                    | 10 1/2          | \$80.00                    |

### Anchor Staff or Pole Light

BRASS OR COPPER—ELECTRIC ONLY

With bail handle on top and bottom, medium screw base sockets, special fount held in place by pins and chain. Stuffing gland on bottom for wire outlet. Black nickel finish on brass or copper. Clear fresnel lens.

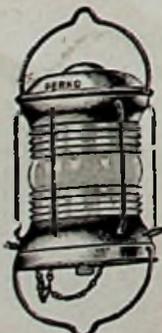


Fig. 16

| Height Overall including Balls Inches | Size of Lens Inches | Height Overall less Balls Inches | Diam. Base Inches | Net Weight Each Lbs. | Price Each |         |
|---------------------------------------|---------------------|----------------------------------|-------------------|----------------------|------------|---------|
|                                       |                     |                                  |                   |                      | Brass      | Copper  |
| 13 1/2                                | 4 1/4 x 4 1/4       | 8 1/4                            | 5 3/8             | 2 1/2                | \$9.00     | \$12.00 |

With colored lens (red, green or blue), add \$2.00 to above prices.





Fig. 346

## Fisherman's Side Light

GLOUCESTER TYPE

For deep sea fishing vessels. This type of oil burning light is the most dependable light for its purpose on the market. Made of heavy gauge steel, hot galvanized after forming. A tubular lantern which slides in through open top of light is included in the equipment, furnished in pairs, for Port and Starboard sides.

| Extreme Height Inches                      | Diam. Bottom Inches | Size of Lens  |             | Inside Lantern Used | Net Weight Per Pair Lbs. | Price per Pair |         |
|--|---------------------|---------------|-------------|---------------------|--------------------------|----------------|---------|
|  |                     | Height Inches | Cir. Inches |                     |                          | Galv.          | Brass   |
| 16   | 10                  | 6 1/4         | 9           | Monarch Tubular     | 23                       | \$30.00        | \$50.00 |
| For combination oil and electric equipment |                     |               |             |                     |                          | 33.00          | 53.00   |

## Fisherman's Bow Light

GLOUCESTER TYPE

Made of heavy gauge steel, hot galvanized after forming. Same construction and equipment as the famous Gloucester Fisherman's side light. Equipment consists of tubular oil lantern and clear fresnel lens, hinged top and back bracket.

| Extreme Height Inches                      | Diam. Bottom Inches | Size of Lens  |             | Inside Lantern Used | Net Weight Each Lbs. | Each    |         |
|--|---------------------|---------------|-------------|---------------------|----------------------|---------|---------|
|  |                     | Height Inches | Cir. Inches |                     |                      | Galv.   | Brass   |
| 16   | 10                  | 7             | 12 1/2      | Monarch Tubular     | 12                   | \$16.00 | \$30.00 |
| For combination oil and electric equipment |                     |               |             |                     |                      | 17.50   | 31.50   |

Colored lens (red, green or blue) can be furnished if required. Add \$5.00 each to above prices.

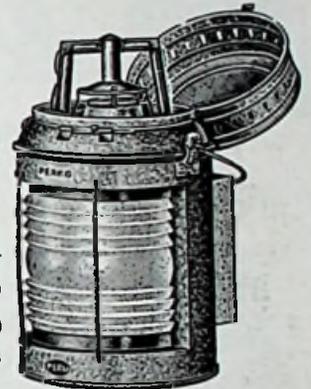


Fig. 574



Fig. 562

## Fisherman's Anchor Light

GLOUCESTER TYPE

Made of heavy gauge steel, hot galvanized after forming. Same construction and equipment as the famous Gloucester Fisherman's side light. Equipment consists of tubular oil lantern and clear fresnel lens, hinged top.

| Extreme Height Inches | Diam. Bottom Inches | Size of Lens  |              | Inside Lantern Used | Net Weight Each Lbs. | Each    |         |
|-----------------------|---------------------|---------------|--------------|---------------------|----------------------|---------|---------|
|                       |                     | Height Inches | Diam. Inches |                     |                      | Galv.   | Brass   |
| 17                    | 10                  | 7             | 8            | Monarch Tubular     | 16 1/2               | \$18.00 | \$32.00 |

Colored lens (red, green or blue) can be furnished if required. Add \$5.00 each to above prices.

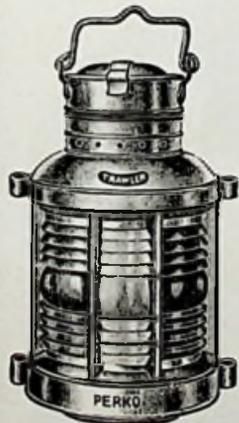


Fig. 407  
Oil Burning

## Tri-Color Trawler Light

FOR STEAM TRAWLERS

Constructed to comply with the international laws governing running lights on steam trawlers. Equipped with three fresnel lenses, red, white and green, of regulation size. Oil lamp is equipped with brass fount, No. 2 hinge burner, wick and chimney. Electric lamp is equipped with Edison base standard sockets (medium screw base), one or two light.

| No. | Extreme Height Inches |          | Size of Base Inches | Height Lens Inches | Material   |                |                 |
|-----|-----------------------|----------|---------------------|--------------------|------------|----------------|-----------------|
|     | Fig. 407              | Fig. 408 |                     |                    | Each       | Each           | Each            |
| 1   | 15                    | 11       | 7 x 7 3/4           | 6 3/4              | Galvanized | Polished Brass | Polished Copper |
| 2   | 17 1/2                | 13 1/4   | 9 1/4 x 10          | 7 3/8              | \$27.00    | \$37.00        | \$45.00         |
|     |                       |          |                     |                    | 30.00      | 40.00          | 48.00           |



Fig. 408  
Electric Burning

### Meal and Absent Light CAST BRONZE

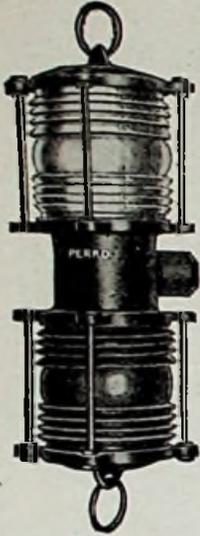


Fig. 402

A distinctive and compact signal light designed to meet the most exacting requirements of yacht owners.

Furnished with clear fresnel lens on top, blue fresnel lens on bottom. A watertight stuffing gland for entrance of cable.

Threaded for 1/2 inch pipe to attach a bracket for mounting.

| Each    | Extreme Height Inches | Size Lens Inches |
|---------|-----------------------|------------------|
| \$20.00 | 11 1/4                | 3 3/8 x 3 1/2    |

Finish is black nickel, not polished.

### Blinker Signal Light WITH MEDIUM SCREW SOCKETS CAST BRONZE

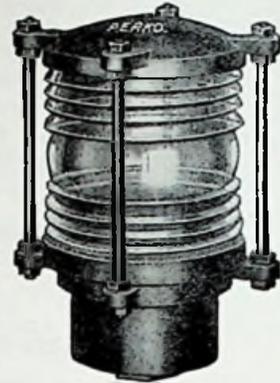


Fig. 403

| No. | Each    | Height Inches | Size Lens Inches | Threaded for Pipe Inches |
|-----|---------|---------------|------------------|--------------------------|
| 1   | \$12.00 | 6 1/2         | 3 3/8 x 3 1/2    | 1/2                      |
| 2   | 13.00   | 7 3/4         | 4 1/4 x 4 1/4    | 3/4                      |
| 3   | 20.00   | 8 1/2         | 5 7/8 x 6        | 1                        |

Finish is black nickel, not polished.

### Mast, Anchor, or Signal Light CAST BRONZE

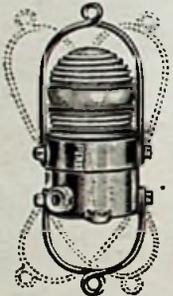


Fig. 105

Threaded base, fresnel ball globe, cast bronze fittings, standard Edison socket (medium screw base). Water-tight stuffing gland on side for wiring. Bail handles top and bottom for hanging from mast or yardarm. Two of these lights joined together by bottom lugs, one clear and one blue globe, makes a handy meal and absent light.

| Height Overall Inches | Width Overall Inches | Inside Diam. Globe Inches | Height Globe Inches  | Weight Lbs. |
|-----------------------|----------------------|---------------------------|----------------------|-------------|
| 9                     | 4                    | 2 1/4                     | 2 1/2                | 2 1/2       |
| Plain Bronze Each     | Polished Bronze Each | Nickel Plated Each        | Chromium Plated Each |             |
| \$7.00                | \$8.00               | \$9.00                    | \$10.50              |             |

With colored globe (red, green or blue), add \$1.00 each

### Yardarm Fixture FOR MEAL AND ABSENT LIGHT CAST BRONZE



Fig. 573

| Polished Bronze Each | Nickel Plated Each | Chromium Plated Each | Length Without Bulbs Inches | Size of Base Inches |
|----------------------|--------------------|----------------------|-----------------------------|---------------------|
| \$5.00               | \$6.00             | \$7.50               | 4 3/4                       | 3 1/4 x 2 1/4       |

### Western Trap Lantern

OIL BURNING  
WITH 8 DAY CAPACITY OIL FOUNT



Fig. 14

Also used as stake light, post light, or anchor light.

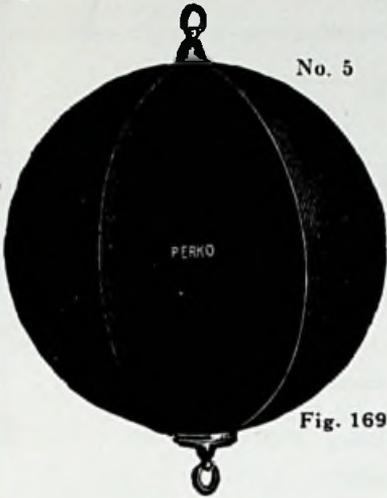
Galvanized body with cast bronze fittings, a clear 8 inch fresnel lens, brass fount and a special zenith burner with gear control for operating wick from outside of light.

| With Clear Lens Each | With Colored Lens Each | Extreme Height Inches | Diam. Bottom Inches | Size Lens Inches |
|----------------------|------------------------|-----------------------|---------------------|------------------|
| \$38.00              | \$43.00                | 22                    | 9 3/4               | 7 x 8            |

Colored Lenses are Red, Green or Blue

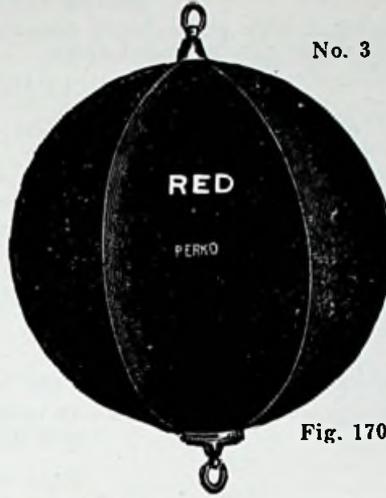
## DAY SIGNALS

All made of heavy, 8-ounce duck, double stitched, brass trimmings, folding ring on top and bottom, brass grommets, heavy galvanized rod through center, tinned wire ribs, all fold as illustrated.



No. 5

Fig. 169



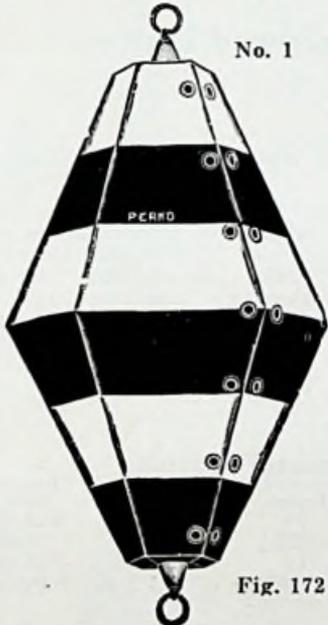
No. 3

Fig. 170



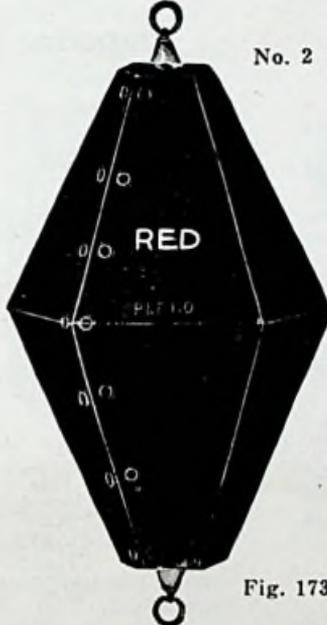
No. 4

Fig. 171



No. 1

Fig. 172



No. 2

Fig. 173



No. 6

Fig. 175



No. 7

Fig. 176

| Fig. No. |                                  | Diam. Inches | Height Inches | Weight Lbs. | Price Each |
|----------|----------------------------------|--------------|---------------|-------------|------------|
| 169      | 5 Black ball signal              | 24           | 24            | 2½          | \$ 6.00    |
| 170      | 3 Red ball signal                | 24           | 24            | 2½          | 9.00       |
| 171      | 4 Black and white ball signal    | 24           | 24            | 2½          | 10.50      |
| 172      | 1 Black and white frustrum       | 24           | 48            | 5           | 25.00      |
| 173      | 2 Red frustrum                   | 24           | 48            | 5           | 25.00      |
| 175      | 6 Clear towing light, galvanized | 7½           | 17            | 9           | 13.20      |
| 176      | 7 Red towing light, galvanized   | 7½           | 17            | 9           | 16.50      |

### RULES IN EFFECT ON DAY SIGNALS

The following signals we guarantee to cover law in confirmation with new rules taking effect September 1, 1914. All of our Day Shapes are made of highest grade material and can be folded up when not in use and stowed away in a very small space.

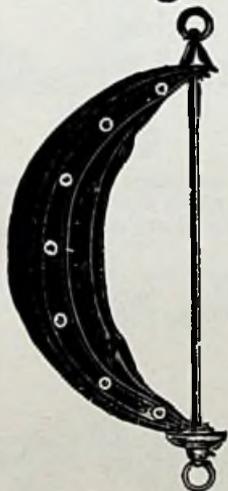
**RULE NO. 1**—For vessels having submerged objects in tow, shall display in daytime one No. 1 shape and one No. 2 shape, and in the night, in addition to regulation lights, two Red No. 7 and two White No. 6 Towing Lights.

**RULE NO. 2**—For all style vessels fastened alongside of wrecks, or moored over a wreck, two of our No. 2 shapes are required during the day, and at night two of our No. 6 White and two of our No. 7 Red Towing Lights.

**RULE NO. 3**—Dredges in stationary positions require two of our No. 3 Red Balls during the day, and at night two of our No. 6 White Towing Lights and two of our No. 7 Red Towing Lights.

**RULE NO. 4**—For Self-Propelling Suction Dredges under way with their suction in the bottom, require during the day two of our No. 5 Black Balls, and during the night, in addition to regulation lights, two Red Mast Head Lights and two special Four Point Red Lights.

**RULE NO. 5**—For vessels which are moored or engaged in laying pipe on submarine construction during the day, one No. 4 Black and White Ball and one No. 3 Red Ball, and during the night three of our No. 7 Red Towing Lights.



Ball Signal  
(When Closed)



Frustrum  
(When Closed)

### Globe—Distress or Signal Light

TURRET TOP  
OIL OR ELECTRIC

Constructed of high grade, heavy materials. Colored globes are solid color—not painted. Heavy wire guards protect globe.

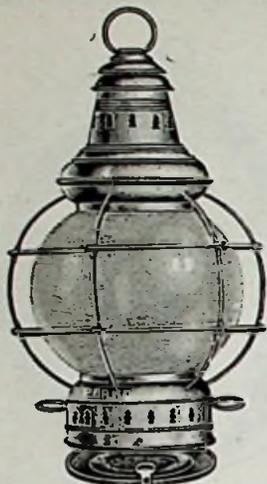


Fig. 44

WITH CLEAR GLOBE

| Trade Size Inches | Diam. Globe Inches | Height Overall Inches | Net Weight Each Lbs. | Price Each |         |         |
|-------------------|--------------------|-----------------------|----------------------|------------|---------|---------|
|                   |                    |                       |                      | Galvanized | Brass   | Copper  |
| 6                 | 6                  | 11                    | 4                    | \$ 5.00    | \$ 7.00 | \$ 9.00 |
| 8                 | 8                  | 14½                   | 6                    | 6.00       | 9.00    | 11.00   |
| 10                | 10                 | 22                    | 12                   | 13.00      | 18.00   | 20.00   |

WITH RUBY, GREEN, BLUE OR FROSTED GLOBES

| Trade Size Inches | Galvanized | Brass   | Copper  |
|-------------------|------------|---------|---------|
| 6                 | \$ 6.00    | \$ 9.00 | \$11.00 |
| 8                 | 7.00       | 11.50   | 13.50   |
| 10                | 15.00      | 21.00   | 23.00   |

For combination Oil and Electric—6 and 8 inch sizes, add \$1.00.

For combination Oil and Electric—10 inch sizes, add \$1.50.

### Navy or Life Boat Lantern

OIL ONLY

Heavily constructed, burns kerosene oil. Equipped with No. 1 brass burner, Fig. 246, and wick. Solid brass spring fount, Fig. 286. Clear globe, Fig. 262. Heavy guards and hinged bottom. This type of lantern approved for use on life boats.



Fig. 49

| Height of Lantern Inches | Diam. of Base Inches | Size of Globe Inches | Net Weight Each Lbs. |
|--------------------------|----------------------|----------------------|----------------------|
| 11                       | 5½                   | 4 x 6½               | 3                    |

|                                    | Galvanized Each | Pol. Brass Each |
|------------------------------------|-----------------|-----------------|
| With Clear Globe                   | \$2.50          | \$5.00          |
| With Ruby, Green or Blue Globe     | 4.00            | 6.50            |
| With Electric Fount, Fig. 292, add | .50             | .50             |

### Superior Bulkhead Lantern

With Outside Sliding Glasses

Heavy gage metal. Guards riveted to frame and reinforced with solder. Glasses easily removed by sliding through top opening in frame. Large size brass oil fount, hinge burner, lip chimney and large nickel plated reflector.



Fig. 46

| Size Body—   |             | Height Overall Inches | Galvanized Each | Brass Each |
|--------------|-------------|-----------------------|-----------------|------------|
| Front Inches | Side Inches |                       |                 |            |
| 7x11         | 5¾x11       | 14                    | \$8.00          | \$13.00    |
| 8x12         | 6½x12       | 15½                   | 8.50            | 14.00      |
| 9x13         | 7¾x13       | 16                    | 9.00            | 15.00      |

With Electric Founts in Place of Oil Founts Price Same as Oil.

### Engineer's Hand Lantern

OIL ONLY

A handy, small size hand lantern. Globe is well guarded. Equipped with solid brass spring fount, No. 0 brass burner, Fig. 246, and clear globe, Fig. 263.



Fig. 50

| Height of Lantern Inches | Diam. of Base Inches | Size of Globe Inches | Net Weight Each Lbs. |
|--------------------------|----------------------|----------------------|----------------------|
| 9½                       | 4½                   | 2½ x 4¼              | 1                    |

|                                | Galvanized Each | Pol. Brass Each |
|--------------------------------|-----------------|-----------------|
| With Clear Globe               | \$2.00          | \$4.00          |
| With Ruby, Green or Blue Globe | 3.30            | 5.30            |
| Spring Founts Only—All Brass   |                 | .67             |

### Sail Boat Side Lights

SPECIAL SMALL SIZE

FOR CLASS 1 BOATS—LESS THAN 26 FT. LONG

Made for the numerous Class 1 sail boats in use on which side lights of a small size to burn oil are desired.



Fig. 845

| Size of Lens Inches | Extreme Height Inches | Diam. of Base Inches | Weight Per Pair Pounds |
|---------------------|-----------------------|----------------------|------------------------|
| 3¾x3¾               | 9                     | 4¼                   | 4                      |

|                        | Galvanized Per Pair | Pol. Brass Per Pair |
|------------------------|---------------------|---------------------|
| Oil Only               | \$6.00              | \$8.50              |
| Oil and Electric       | 7.00                | 9.50                |
| Electric Only—Flat Top | 5.00                | 7.50                |

## Detroit Cabin Lamp

DOUBLE SWING—WEIGHTED BASE  
ALL BRASS—POLISHED

Gimbel arrangement keeps the lamp in an upright position in a very heavy sea.

One piece fount holds 1 1/4 pints of oil, wall plate diameter is 5 1/8 inches.

Equipped with hinge burner, wick, and lip chimney.

| No. | Each   | Height Inches | Extension Inches |
|-----|--------|---------------|------------------|
| 1   | \$5.00 | 12 1/8        | 8                |
| 2   | 6.00   | 12 1/2        | 9 1/2            |



Fig. 138

## Arizona Cabin Lamp

DOUBLE SWING—WEIGHTED BASE

ALL BRASS—POLISHED

This is the Philadelphia cabin lamp Fig. 137 equipped with white opal shade, brass tripod, brass smoke bell and arm.

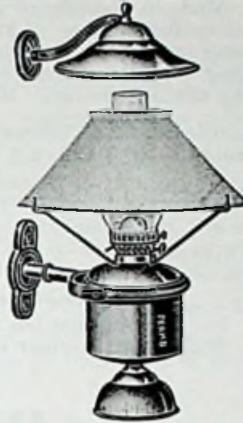


Fig. 126

Each Complete \$11.00

Extension From Wall to End of Shade Inches 11

## Philadelphia Cabin Lamp

DOUBLE SWING—WEIGHTED BASE

ALL BRASS—POLISHED

With gimbel arrangement, cast bronze wall plate and removable fount.

Fount capacity is 1 1/2 pints, wall plate size is 4 3/8 x 2 1/4 inches.

Equipped with No. 2 hinge burner, wick, and lip chimney.

| No. | Each   | Height Inches | Extension Inches |
|-----|--------|---------------|------------------|
| 2   | \$8.00 | 14            | 8 1/2            |



Fig. 137

## Montana Cabin Lamp

STIFF BRACKET—NON SWING

ALL BRASS—POLISHED

This is the Maine cabin lamp Fig. 136 equipped with white opal shade, brass tripod, brass smoke bell and arm.



Fig. 125

Each Complete \$9.00

Extension From Wall to End of Shade Inches 10

## Maine Cabin Lamp

STIFF BRACKET—NON SWING

ALL BRASS—POLISHED

With cast bronze bracket riveted to body, removable fount.

Fount capacity is 1 1/2 pints, wall plate size is 3 x 1 3/8.

Equipped with No. 2 hinge burner, wick, and lip.

| No. | Each   | Height Inches | Extension Inches |
|-----|--------|---------------|------------------|
| 2   | \$6.00 | 12            | 8                |



Fig. 136

## Midget Cabin Lamp

ALL BRASS—POLISHED  
DOUBLE SWING—WEIGHTED BASE

Designed primarily for use in the cabins of small cruisers, ideal for the popular small motor sailers now in use, made as small and compact as possible.

Lamp body set in gimbal ring, will retain upright position regardless of motion of the boat.

One piece leak-proof fount holds 1/2 pint of oil.

Equipped complete with hinged burner, wick and 4 inch lip chimney.

| Height Inches | Extension From wall Inches | Diameter Wall plate Inches |
|---------------|----------------------------|----------------------------|
| 9             | 5                          | 4                          |



Fig. 166

Complete with smoke bell ..... \$6.10  
Lamp only, without smoke bell 5.00  
Smoke bell and arm only ..... 1.10

## Smoke Bell and Arm

Made of spun brass, cast brass arm.

Diameter of bell, 6 inches  
Length overall, 9 inches  
Net weight, each, 4 ounces

| Polished Brass Each | Nickel Plated Each |
|---------------------|--------------------|
| \$1.10              | \$1.75             |

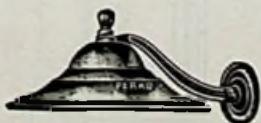


Fig. 128



Fig. 59

### Regulation Pier Lights

180 DEGREE RUBY FRESNEL LENS  
OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

Made in accordance with specifications of the U. S. Department of Commerce regulations for lighting of bridges and piers, of heavy gauge sheet metal, 180 degree ruby fresnel lens, oil or electric equipment, brackets for mounting, made with back door and sliding fount, as shown on Fig. No. 25, page 24, or with swivel fount, Fig. No. 282, going through bottom. Medium screw sockets in electric equipment.

Extreme height, 21 inches  
Meas. of base, 9 inches x 10 inches  
Size of lens, 7 inches x 12½ inches

Width of back, overall, 14½ inches  
Net weight, each, 13 pounds

PRICE EACH—OIL OR ELECTRIC

|                   | Galvanized | Brass   | Copper  |
|-------------------|------------|---------|---------|
| With back door    | \$30.00    | \$36.00 | \$42.00 |
| With swivel fount | 26.00      | 33.00   | 39.00   |

Can also be had with flat top—electric only, same price as above.

For combination Oil and Electric, add \$2.00 to above prices.  
With green or clear lens if desired at above prices.

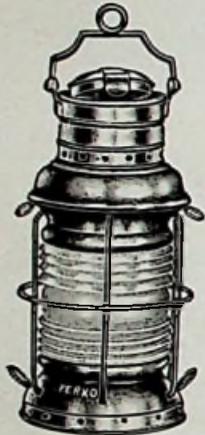


Fig. 80

### Mid Channel Span Light

360 DEGREE GREEN FRESNEL LENS  
OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

Made in accordance with regulations for lighting of bridges. Heavy gauge sheet metal, with top ventilator, for oil or electric, or flat top for electric only. Swivel fount, Fig. No. 282, with No. 2 hinge burner and chimney in oil type, medium screw sockets in electric type. 360 degree fresnel lens.

Extreme height, 17 inches  
Diameter of base, 9½ inches

Size of lens, 7 inches x 8 inches  
Net weight, each, 18 pounds

PRICE EACH

|   | Galvanized | Brass   | Copper  |
|---|------------|---------|---------|
| With hinged top, for oil or electric                      | \$27.00    | \$37.00 | \$41.00 |
| With hinge top, combination oil and electric              | 28.50      | 39.50   | 42.50   |
| With flat top, for electric only as Fig. 32               | 23.00      | 31.50   | 39.00   |
| With Ruby, Blue or Clear Lens if desired at above prices. |            |         |         |

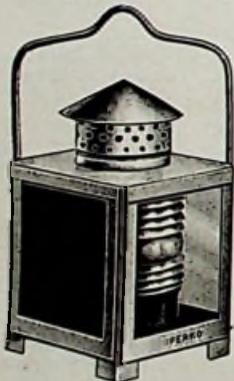


Fig. 63

### Regulation Draw Bridge Light

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

Made of heavy sheet metal, in accordance with regulations. Square frame, in which a 360 degree clear fresnel lens is set. Glass panels in frame on all sides, two red and two green, set in opposite sides to each other. Large size swivel fount, for oil lighting, which goes through bottom of light. Medium screw sockets used as standard electrical equipment.

Height overall, 18 inches  
Size of square, 11¼ inches  
Net weight, each, 18 pounds

Size of lens, 7 inches x 8 inches  
Size of glass panels overall 9½ inches x 10½ inches  
Size of glass panels exposed 8¼ inches x 8¾ inches

PRICE EACH

| Galvanized | Brass   | Copper  |
|------------|---------|---------|
| \$40.00    | \$60.00 | \$80.00 |

Extra glass panels, red and green, price each, \$2.00.  
For combination Oil and Electric, add \$2.50 to above prices.

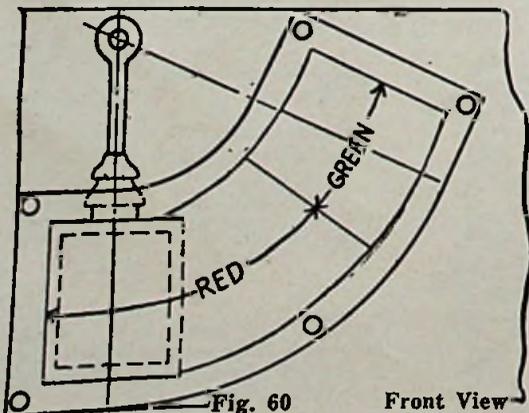


Fig. 60

Front View

### Lift Bridge Lights

OIL OR ELECTRIC

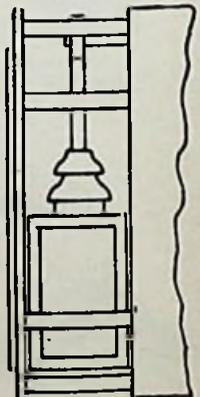
COMPLETE AS ILLUSTRATED

Built to conform with Department of Commerce regulations on lift bridge lighting. Heavily made, well constructed.

Extreme height, 23 inches  
Extreme width, 30 inches

PRICE EACH

|                             |          |
|-----------------------------|----------|
| Oil or electric, galvanized | \$150.00 |
|-----------------------------|----------|



Side View

## CAST BRONZE BRIDGE AND PIER LIGHTS

Made in accordance with specification of U. S. Department of Commerce regulations for lighting of bridges and piers.



Fig. 1005

### Regulation Pier Light

180 DEGREE RUBY FRESNEL LENS

Height overall less handle—9 $\frac{3}{8}$  inches.  
 Width, between holes, center to center—9 $\frac{3}{8}$  inches.  
 Size of lens—7 $\frac{3}{8}$  inches high x 12 $\frac{1}{2}$  inches circumference of bulls eye.  
 Sizes of base—width 8 $\frac{1}{4}$  inches; depth, 7 $\frac{1}{2}$  inches.  
 Diameter of opening in top—5 inches.  
 Weight—19 $\frac{1}{2}$  pounds.

Black Nickel Finish (not polished), each, \$30.00

With Green or Clear Lens if desired at above price

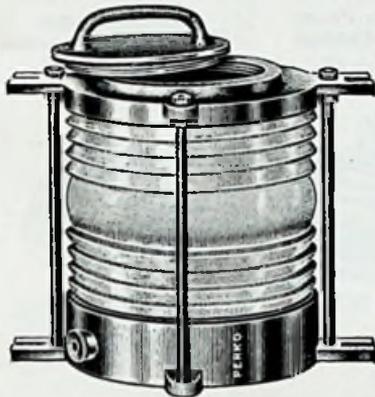


Fig. 1006

### Mid Channel Span Light

360 DEGREE GREEN FRESNEL LENS

Height overall less handle—9 $\frac{1}{2}$  inches.  
 Diameter body—8 inches.  
 Width, end to end of guides—11 $\frac{1}{8}$  inches.  
 Size of slot in guides— $\frac{3}{8}$ x1 inch.  
 Size of lens—7 inches high x 8 inches diameter.  
 Diameter of opening in top—5 inches.  
 Weight—22 pounds.

Black Nickel Finish (not polished), each, \$32.00

With Ruby, Blue or Clear Lens if desired at above price

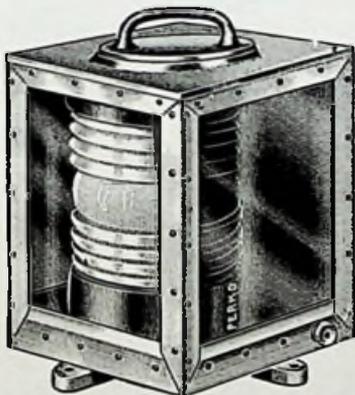


Fig. 1007

### Draw Bridge Light

TWO RED AND TWO GREEN PANEL GLASSES  
 SURROUNDING A 360 DEGREE CLEAR FRESNEL LENS

Height overall less handle—11 $\frac{1}{2}$  inches.  
 Body—10 $\frac{3}{8}$  inches x 10 $\frac{3}{8}$  inches x 10 $\frac{3}{8}$  inches high.  
 Width between holes, center to center in bottom—11 $\frac{1}{2}$  inches.  
 Size of panels overall—9 $\frac{1}{4}$  inches x 9 $\frac{1}{4}$  inches.  
 Size of panels exposed—8 $\frac{3}{8}$  inches x 8 $\frac{3}{8}$  inches.  
 Size of clear fresnel—7 inches high x 8 inches diameter.  
 Diameter of opening in top—5 inches.  
 Weight—51 pounds.

Black Nickel Finish (not polished), each, \$50.00

Extra Red or Green Panel Glasses, \$2.00 Each



Fig. 1008

### Aerial Beacon Light

Aeronautical regulations require beacon lights on all high structures around air ports and along air routes.

Of extra heavy and sturdy construction to withstand very extreme weather conditions. Globe is held by threaded collar and is easily removed to change bulb, absolutely water-tight. Greater height can be secured by adding required length of 1 inch pipe at joint in standard which is threaded.

Height overall—12 $\frac{3}{4}$  inches.  
 Diameter of base—5 inches.  
 Size of lens—4 $\frac{3}{4}$  inches diameter x 6 $\frac{3}{8}$  inches high x 3 $\frac{3}{8}$  inches opening.  
 Weight—10 $\frac{3}{4}$  pounds.  
 Bulb—will take up to 100 watt.

Black Nickel Finish (not polished), each, \$18.00

Extra Lens, Clear \$4.00; Ruby, Green, Blue or Amber, \$6.50 Each

DETAILED BLUE PRINTS OF ABOVE LIGHTS FURNISHED ON REQUEST



### “Perko” Brass Swivel Founts

FOR DE-LITE RUNNING LIGHTS  
CLASSES 1, 2 AND 3

**Oil Fount**



Fig. 582

For class 1 combination, class 2 and 3 side and bow lights. Body is stamped in one solid piece, no seam for leaks to develop. Brass rivets on side to lock fount in lamp. No springs to break off.

Net weight, each, 4 ounces

Diameter of fount, 2 3/4 inches

**PRICE PER DOZEN**

|  |         |
|--|---------|
| Oil fount only, Fig. 582                     | \$ 8.00 |
| Oil fount and burner, complete               | 9.90    |
| Electric fount (medium screw base), Fig. 588 | 12.00   |

**Edison Electric Fount**



Fig. 588

### Brass Spring Founts

FOR OLD STYLE RUNNING LIGHTS  
CLASSES 1, 2 AND 3

**Oil and Electric Fount**



Fig. 733

**Oil Fount**



Fig. 286

**Oil and Electric Fount**

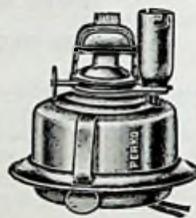


Fig. 736

**Ediswan Fount Double Contact**



Fig. 291

**Edison Fount Medium Screw Base**

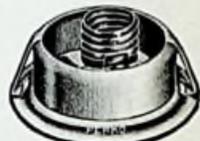


Fig. 292

Fig. 733 for Fig. 1 Combination Lights, the balance illustrated are for Classes 2 and 3 Side and Bow Lights, Fig. 06 and Fig. 10 Anchor Lights, 8 inch Globe Lights and Navy Lanterns.

|                                  | Diameter Overall Inches | Diam. Opening in Light Inches | Net Weight Per Dozen Lbs. | Price Per Dozen |
|----------------------------------|-------------------------|-------------------------------|---------------------------|-----------------|
| Fig. 286—Oil founts              | 3 3/4                   | 3 5/8                         | 1 1/2                     | \$ 8.00         |
| Fig. 291—Ediswan founts          | 3 3/4                   | 3 7/8                         | 2                         | 12.00           |
| Fig. 292—Edison founts           | 3 3/4                   | 3 7/8                         | 2                         | 12.00           |
| Fig. 290—Candelabra founts       | 3 3/4                   | 3 7/8                         | 2                         | 12.00           |
| Fig. 736—Oil and Electric founts | 3 3/4                   | 3 7/8                         | 4 1/2                     | 18.00           |
| Fig. 733—Oil and Electric founts | 3 1/2                   | 3 5/8                         | 3 3/4                     | 18.00           |
| Fig. 733—For Oil only            | 3 1/2                   | 3 5/8                         | 3                         | 8.00            |

### Brass Swivel Founts

FOR CLASS 1 STERN LIGHT AND 6 INCH GLOBE LIGHTS

**Oil and Electric Fount**



Fig. 735

**Oil Fount**



Fig. 287

**Ediswan Fount Double Contact**



Fig. 293

**Edison Fount Medium Screw Base**



Fig. 274

|                                 | Diameter Overall Inches | Diam. Opening in Light Inches | Net Weight Per Dozen Lbs. | Price Per Dozen |
|---------------------------------|-------------------------|-------------------------------|---------------------------|-----------------|
| Fig. 287—Oil fount              | 4 1/2                   | 4                             | 4                         | \$ 8.00         |
| Fig. 293—Ediswan fount          | 4 1/2                   | 4                             | 4                         | 12.00           |
| Fig. 274—Edison fount           | 4 1/2                   | 4                             | 4                         | 12.00           |
| Fig. 735—Oil and Electric fount | 4 1/2                   | 4                             | 4 1/2                     | 18.00           |



## Brass Swivel Founts

FOR TURRET TOP LIGHTS LARGER THAN CLASS 3

Oil Fount



Fig. 282

One Light Electric Fount  
Medium Screw Base



Fig. 288

Two Light Electric Fount  
Medium Screw Base

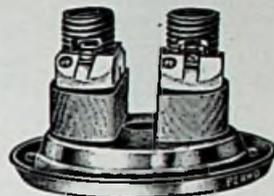


Fig. 289

Made of heavy gauge brass, with brass bar passing through sides and across bottom to hold fount in lamp and act as turning handle.

| Nos. | For Side Light Nos. | For Bow Light Nos. | For Anchor Light Nos. | Diam. Opening in Light Inches | Diam. Base of Fount Inches | Burner Size Nos. | Fig. 282   |             | Fig. 288   |             | Fig. 289   |             |
|------|---------------------|--------------------|-----------------------|-------------------------------|----------------------------|------------------|------------|-------------|------------|-------------|------------|-------------|
|      |                     |                    |                       |                               |                            |                  | Brass Each | Copper Each | Brass Each | Copper Each | Brass Each | Copper Each |
| 1    | 8 & 9               | 14                 | .....                 | 3 3/4                         | 4 3/4                      | 1                | \$1.00     | \$1.50      | \$1.50     | \$2.00      | .....      | .....       |
| 2    | 10                  | 15                 | 22, 22 1/2 & 85       | 3 3/4                         | 4 3/4                      | 2                | 1.00       | 1.50        | 1.50       | 2.00        | .....      | .....       |
| 3    | 11                  | 16                 | 23 & 86               | 4 3/4                         | 5 3/4                      | 2                | 1.50       | 2.00        | 2.00       | 2.50        | \$2.50     | \$3.00      |

## Brass Spring Founts

FOR TURRET TOP LIGHTS LARGER THAN CLASS 3

Oil Fount

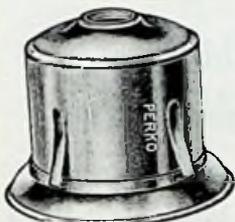


Fig. 283

Made of heavy gauge brass with brass spring clips to hold fount in lamp. Furnished for oil only, or one light and two light electric burning. Two light electric fount, Fig. No. 301.

Fig. 301 not illustrated, same as Fig. 300, but with two light electric sockets.

One Light Electric Fount  
Medium Screw Base



Fig. 300

| Nos. | For Side Light Nos. | For Bow Light Nos. | For Anchor Light Nos. | Diam. Opening in Light Inches | Diam. Base of Fount Inches | Burner Size Nos. | Fig. 283   |             | Fig. 300   |             | Fig. 301   |             |
|------|---------------------|--------------------|-----------------------|-------------------------------|----------------------------|------------------|------------|-------------|------------|-------------|------------|-------------|
|      |                     |                    |                       |                               |                            |                  | Brass Each | Copper Each | Brass Each | Copper Each | Brass Each | Copper Each |
| 4    | 8 & 9               | 14                 | .....                 | 3 3/4                         | 4 3/4                      | 1                | \$1.00     | \$1.50      | \$1.50     | \$2.00      | .....      | .....       |
| 5    | 10                  | 15                 | 22, 22 1/2 & 85       | 3 3/4                         | 4 3/4                      | 2                | 1.00       | 1.50        | 1.50       | 2.00        | .....      | .....       |
| 6    | 11                  | 16                 | 23 & 86               | 4 3/4                         | 5 3/4                      | 2                | 1.50       | 2.00        | 2.00       | 2.50        | \$2.50     | \$3.00      |

## 2 in 1 Fount for Turret Top Lights

LARGER THAN CLASS 3

Swivel Fount for Improved Turret Top Lights



Fig. 335

This type of fount is used in the larger running lights and fits the following:

No. 1 fits Nos. 8, 9, 10, side lights, Nos. 14 and 15 bow lights, Nos. 22 and 22 1/2 anchor, 10 inch globe light and Nos. 84 and 85 anchor lights.

No. 2 fits No. 11 side, No. 16 bow, Nos. 23 and 86 anchor lights. The above are oil and one light electric—either swivel or spring type.

No. 3 oil and two light electric fits No. 11 side, No. 16 bow, Nos. 23 and 86 anchor lights.

No. 1  
Each  
\$2.00

No. 2  
Each  
\$2.50

No. 3  
Each  
\$3.00

Spring Fount for Old Style Turret Top Lights



Fig. 587

## Sliding Founts for Back Door Lights

2 in 1  
Oil and Electric  
Founts

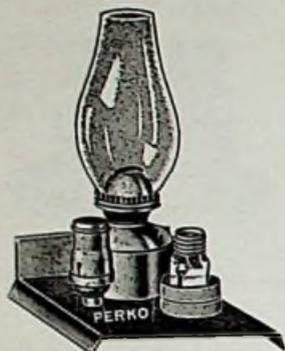


Fig. 336

Oil Fount



Fig. 284

One Light Electric Fount  
Medium Screw Base



Fig. 281

Two Light Electric Fount  
Medium Screw Base

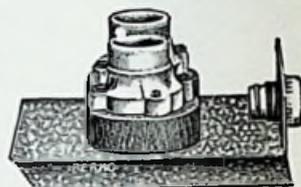


Fig. 285

- Fig. 336—Oil and 1 Light Electric fount  
Oil and 2 Light Electric fount  
Fig. 284—Oil Only fount  
Fig. 281—1 Light Electric fount  
Fig. 285—2 Light Electric fount

| PRICE EACH |        |
|------------|--------|
| Brass      | Copper |
| \$3.25     | \$3.50 |
| 3.60       | 3.85   |
| 2.50       | 2.75   |
| 2.50       | 2.75   |
| 3.00       | 3.25   |

NOTE—WHEN ORDERING SLIDING FOUNTS, PLEASE SPECIFY WHETHER FOR SIDE OR BOW LIGHTS AND GIVE FIGURE NUMBER AND SIZE. IF POSSIBLE, GIVE EXACT SIZE OF SLIDING PLAT-FORM.

### Double Contact Socket FOR DE-LITE RUNNING LIGHTS



Fig. 276

BASE THREADED 1/8" I. P. S.

Standard electrical equipment in De-lite running lights, classes 1, 2 and 3.

Price, each \$ .36

### Color Shield

FOR COMBINATION LIGHTS  
DIVIDES RED AND GREEN LENSES



Fig. 130

Used on class 1 combination lights, Fig. No. 01, 010, etc.

Made of heavy gauge brass or galvanized iron.

| Galvanized Each | Polished Brass Each |
|-----------------|---------------------|
| \$ .50          | \$ .75              |

### Socket Holder

FOR DE-LITE RUNNING LIGHTS

BRASS



Fig. 277

Standard equipment for supporting electric socket, Fig. No. 276. Complete with screws for installing.

Price, each \$ .50

### T Brackets

FOR LARGE SIZE RUNNING LIGHTS



Fig. 135

Made of cast iron, hot galvanized. Standard equipment on large size running lights. Height overall, 7 1/2 inches, width overall, 5 3/4 inches, width bracket, 2 1/4 inches.

Galvanized Cast Iron, Each \$1.00

### Lantern Bracket CAST BRONZE

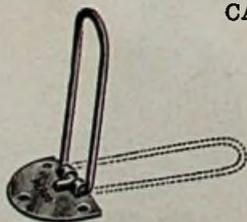


Fig. 514

Folds down on deck when not in use. Snug fit in lamp bracket.

Price, each, polished \$1.20  
Price, each, nickel plated 1.70

### Brackets

FOR MOUNTING RUNNING LIGHTS  
MADE OF HEAVY GALV. IRON OR BRASS



Fig. 131

| No. | Width Inches | Height Inches | Galvanized Each | Brass Each |
|-----|--------------|---------------|-----------------|------------|
| 1   | 1 1/2        | 4 3/4         | \$ .30          | \$ .50     |
| 2   | .2           | 6 3/4         | .50             |            |

## Mazda Lighting Bulbs



Fig. 337

| Bulb No. | Diam. Inches | Length Overall Inches |
|----------|--------------|-----------------------|
| G-6      | 3/4          | 1 1/8                 |
| S-8      | 1            | 2                     |
| S-10     | 1 1/4        | 2 1/8                 |
| S-11     | 1 3/8        | 2 3/8                 |



Fig. 340

### FROSTED

| Bulb No. | Diam. Inches | Length Overall Inches |
|----------|--------------|-----------------------|
| A-17     | 2 1/8        | 3 3/8                 |
| A-19     | 2 3/8        | 3 1/2                 |
| A-21     | 2 5/8        | 4 1/8                 |

| Volts | Candle Power | No.  | Base  | Price Each Clear |
|-------|--------------|------|-------|------------------|
| 6-8   | 3            | G-6  | D. C. | \$ .20           |
| 6-8   | 6            | G-6  | D. C. | .20              |
| 6-8   | 15           | S-8  | D. C. | .35              |
| 6-8   | 21           | S-10 | D. C. | .35              |
| 6-8   | 32           | S-10 | D. C. | .65              |
| 6-8   | 50           | S-11 | D. C. | 1.20             |
| 12-16 | 3            | G-6  | D. C. | .35              |
| 12-16 | 6            | G-6  | D. C. | .40              |
| 12-16 | 15           | S-8  | D. C. | .40              |
| 12-16 | 21           | S-10 | D. C. | .60              |
| 12-16 | 32           | S-10 | D. C. | .90              |
| 12-16 | 50           | S-11 | D. C. | 1.40             |
| 32    | 3            | G-6  | D. C. | .90              |
| 32    | 6            | G-8  | D. C. | .90              |
| 32    | 15           | S-8  | D. C. | 1.20             |
| 32    | 21           | S-10 | D. C. | 1.30             |
| 32    | 32           | S-10 | D. C. | 1.40             |
| 32    | 50           | S-11 | D. C. | 2.00             |

| Volts | Watts | No.  | Base   | Price Each Frosted |
|-------|-------|------|--------|--------------------|
| 6     | 15    | A-17 | Medium | \$.70              |
| 6     | 25    | A-19 | Medium | .70                |
| 6     | 50    | A-21 | Medium | .90                |
| 12    | 15    | A-17 | Medium | .70                |
| 12    | 25    | A-19 | Medium | .70                |
| 12    | 50    | A-21 | Medium | .90                |
| 32    | 15    | A-17 | Medium | .60                |
| 32    | 25    | A-19 | Medium | .60                |
| 32    | 50    | A-21 | Medium | .70                |

### FOR DOME AND BERTH LIGHTS



Fig. 8

| Bulb No. | Diam. Inches | Length Overall Inches | Price Each Clear |
|----------|--------------|-----------------------|------------------|
| S-10     | 1 1/4        | 2 1/8                 | \$1.00           |
| S-11     | 1 3/8        | 2 3/8                 | 1.10             |
|          |              | 2 5/8                 | 1.80             |
|          |              | 3 1/8                 | 1.50             |
|          |              | 3 3/8                 | .50              |

| Volts | No.  | C. P. or Watts | Base       | Price Each Clear |
|-------|------|----------------|------------|------------------|
| 6-8   | S-10 | 15             | Medium     | 1.00             |
| 12-16 | S-10 | 15             | Medium     | 1.10             |
| 32    | S-11 | 15             | Medium     | 1.80             |
| 120   | S-11 | 15             | Medium     | 1.50             |
| 120   | S-6  | 6              | Candelabra | .50              |

## Mazda Searchlight Bulbs

| Volts | Watts    | Candle Power | No.      | Base   | Diam. | Length Overall | Price Each |
|-------|----------|--------------|----------|--------|-------|----------------|------------|
| 6-8   |          | 32           | S-10     | D. C.  | 1 1/4 | 2 1/8          | \$.65      |
| 6-8   |          | 50           | S-11     | D. C.  | 1 3/8 | 2 3/8          | 1.20       |
| 6-8   |          | 100          | G-16 1/2 | D. C.  | 2 1/8 | 3              | 3.00       |
| 6-8   |          | 100          | G-16 1/2 | Medium | 2 1/8 | 3 1/8          | 3.50       |
| 6-8   |          | 18 amp.      | P-25     | Medium | 3 1/8 | 4 3/4          | 5.00       |
| 12-16 |          | 32           | S-10     | D. C.  | 1 1/4 | 2 1/8          | .90        |
| 12-16 |          | 50           | S-11     | D. C.  | 1 3/8 | 2 3/8          | 1.40       |
| 12-16 |          | 100          | G-16 1/2 | D. C.  | 2 1/8 | 3              | 3.00       |
| 12-16 |          | 100          | G-16 1/2 | Medium | 2 1/8 | 3 1/8          | 3.50       |
| 12-16 |          | 18 amp.      | P-25     | Medium | 3 1/8 | 4 3/4          | 6.00       |
| 32    |          | 32           | S-10     | D. C.  | 1 1/4 | 2 1/8          | 1.40       |
| 32    |          | 50           | S-11     | D. C.  | 1 3/8 | 2 3/8          | 2.00       |
| 32    | 3.5 amp. | 100          | G-16 1/2 | D. C.  | 2 1/8 | 3              | 3.00       |
| 32    | 3.5 amp. | 100          | G-16 1/2 | Medium | 2 1/8 | 3 1/8          | 3.50       |
| 32    |          | 8 amp.       | P-25     | Medium | 3 1/8 | 4 3/4          | 6.00       |
| 120   | 250      |              | G-30     | Medium | 3 3/4 | 5 1/8          | 4.00       |
| 120   | 400      |              | G-30     | Medium | 3 3/4 | 5 1/8          | 6.00       |
| 120   | 500      |              | G-40     | Medium | 5     | 7 1/4          | 9.00       |

### Marcy Hinge Burner

ALL BRASS—HEAVY PATTERN



Fig. 242

Standard equipment on all cabin lamps, American improved running lights, bulk-head lamps, etc.

| No. | Diam. Thread Inch | Wick Inch | Per Doz. |
|-----|-------------------|-----------|----------|
| 1   | 3/8               | 3/8       | \$5.00   |
| 2   | 1/4               | 3/8       | 6.00     |

### Dual Burners

ALL BRASS—DOUBLE WICK



Fig. 241

| No. | Diam. Thread Inch | Wick Inch | Per Doz. |
|-----|-------------------|-----------|----------|
| 1   | 3/8               | 3/8       | \$10.50  |
| 2   | 1/4               | 3/8       | 14.50    |

### Eagle Burner

ALL BRASS—HEAVY PATTERN

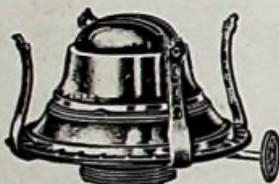


Fig. 248

Standard equipment on wall lamp, Fig. No. 312.

| No. | Diam. Thread Inch | Wick Inch | Per Doz. |
|-----|-------------------|-----------|----------|
| 2   | 1/4               | 3/8       | \$3.50   |

### Cosmos or Ligne Burner

ALL BRASS—HEAVY PATTERN

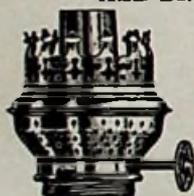


Fig. 240

Standard equipment on Norwegian running lights on page 29.

| Nos. Lignes | Width Wick Inches | Per Doz. |
|-------------|-------------------|----------|
| 10          | 2                 | \$ 9.00  |
| 14          | 2 3/4             | 10.00    |

### Long Time Burner

HEAVY BRASS

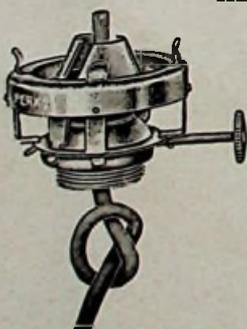


Fig. 245

Standard equipment on 10-day anchor light, Fig. No. 596.

|              |          |
|--------------|----------|
| Burners only | Per Doz. |
| Wicks only   | \$9.00   |
|              | 1.50     |

### Marcy Lip or Dual Chimney



Fig. 267

| Size   | Diam. Bottom Inches | Height Inches | Weight Per Doz. Lbs. |
|--------|---------------------|---------------|----------------------|
| 1 or A | 1 5/8               | 4             | 1 1/4                |
| 1 or A | 1 5/8               | 6             | 1 1/2                |
| 2 or B | 2 1/8               | 6             | 1 3/4                |

|        |           |
|--------|-----------|
| Size   | Per Dozen |
| 1 or A | \$3.50    |
| 2 or B | 4.50      |

Specify height of chimney when ordering.

### Eagle Chimney

PLAIN TOP

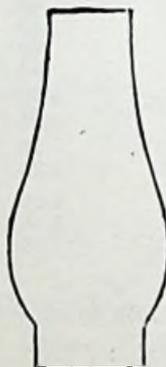


Fig. 268

Standard equipment on wall lamp, Fig. 312.

|                            |        |
|----------------------------|--------|
| Sizes                      | 2 or B |
| Diameter of bottom         | 2 1/8" |
| Diameter of top            | 1 3/4" |
| Height overall             | 7 1/2" |
| Net weight, per doz., lbs. | 2      |

2 or B

Per Dozen \$4.50

### Cosmos or Ligne Chimneys

Standard equipment on Norwegian running lights shown on page 29.



Fig. 270

|          | Height Overall Inches | Diam. Bottom Inches | Price Per Dozen |
|----------|-----------------------|---------------------|-----------------|
| 10 ligne | 6                     | 1 1/2               | \$4.00          |
| 14 ligne | 7                     | 2                   | 5.00            |

### Long Time Chimney



Fig. 272

Standard equipment on ten-day anchor light, Fig. 596.

|                     |               |
|---------------------|---------------|
| Diam. Bottom Inches | Height Inches |
| 1 1/2               | 1 1/2         |
| Per Dozen           | \$6.00        |

## Mirror Reflectors

### PARABOLIC

High grade parabolic mirrors designed for long distance projection of concentrated beam of light.

Standard equipment in "PERKO" Searchlights, Figs. 480, 297, 529.



Fig. 427

|                  | Each    |
|------------------|---------|
| 8 inch diameter  | \$18.00 |
| 10 inch diameter | 20.00   |
| 12 inch diameter | 25.00   |
| 14 inch diameter | 34.00   |

## Metal Reflectors

Made of heavy gauge brass, heavily plated and designed for projecting a powerful beam of light. Standard equipment in our "BEAM" Searchlights, also Figs. 548.



Fig. 428

|                     | Each   |
|---------------------|--------|
| 4 3/4 inch diameter | \$2.00 |
| 6 1/2 inch diameter | 3.75   |
| 7 7/8 inch diameter | 4.25   |
| 10 inch diameter    | 7.50   |

## Convex Front Lens

### FOR SEARCHLIGHTS

Standard equipment in our "BEAM" Searchlights and Streamline Searchlight, Fig. 548.



Fig. 429

|                     | Each   |
|---------------------|--------|
| 4 7/8 inch diameter | \$ .80 |
| 6 inch diameter     | 1.00   |
| 7 7/8 inch diameter | 1.00   |
| 10 inch diameter    | 2.75   |

## White Opal Shades



Fig. 266

| No. | Diam. Top Inches | Diam. Bottom Inches | Height Overall Inches | Each   |
|-----|------------------|---------------------|-----------------------|--------|
| 1   | 3 1/4            | 9                   | 4                     | \$2.00 |
| 2   | 4 1/2            | 10                  | 4 3/4                 | 2.50   |

For shade holder, refer to Fig. No. 129.

## Brass Burner



Fig. 246

| No. | Diam. Thread Inch | Wick Inch | Per Doz. |
|-----|-------------------|-----------|----------|
| 0   | 3/8               | 1/2       | \$1.70   |
| 1   | 3/8               | 3/8       | 1.90     |
| 2   | 1/4               | 3/8       | 2.90     |

## Shade Tripod

### ALL BRASS

Used with cabin lamps, Fig. No. 125 and 126. For 10 inch diameter shade. Net weight, each, 2 ounces.



Fig. 129

Price, each \$1.00

For Opal Shades see Fig. 266.

## Wicks



Fig. 302

|                                  | Per Dozen |
|----------------------------------|-----------|
| Flat Wicks, No. 0, 1/2 inch wide | \$ .30    |
| Flat Wicks, No. 1, 3/8 inch wide | .35       |
| Flat Wicks, No. 2, 7/8 inch wide | .45       |
| Cosmos Wicks—10 ligne            | 1.30      |
| Cosmos Wicks—14 ligne            | 1.40      |
| Wicks for long time burner       | 1.50      |

## Wick Trimmers

### CAST STEEL

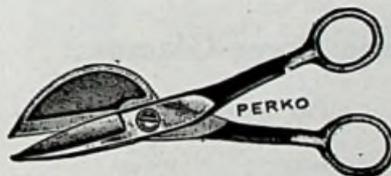


Fig. 141

With wide lip for catching trimmings, as illustrated. Length overall, 6 inches.

Per Dozen \$6.00

## Signal Balls

### AND FOR MARKING RACE COURSES

12 inch and 24 inch diameters collapsible

Heavy wire ribs, brass finishing ends, 8 ounce cotton duck covering in all colors.



Fig. 513

| Diameter | Each 12" | Each 24" |
|----------|----------|----------|
| Black    | \$ 6.00  | \$ 6.00  |
| Blue     | 9.00     | 9.00     |
| White    | 9.00     | 9.00     |
| Red      | 9.00     | 9.00     |
| Striped  | 10.50    | 10.50    |



### Holophane Ball Globe

2 3/4 INCH DIAMETER FOR FIXTURES AND POLE LIGHTS—CLEAR



Fig. 254

With threaded brass ferrule spun over opening. Fits cabin fixtures, Fig. Nos. 81 and 554.

|                     |           |
|---------------------|-----------|
| Outside diameter    | 2 3/4 in. |
| Height overall      | 3 in.     |
| Diameter of opening | 1 1/4 in. |
| Net weight, each    | 5 ozs.    |

|              |                 |
|--------------|-----------------|
| PRICE EACH   |                 |
| With Ferrule | Without Ferrule |
| \$1.50       | \$1.00          |

### Engineer's Lantern Globes

Standard equipment in our engineer's lantern, Fig. No. 50.



Fig. 263

|                       |           |
|-----------------------|-----------|
| Diameter of top       | 2 3/8 in. |
| Diameter of bottom    | 2 1/2 in. |
| Height overall        | 4 1/4 in. |
| Net weight, per dozen | 6 lbs.    |

|           |        |        |        |
|-----------|--------|--------|--------|
| PER DOZEN |        |        |        |
| Clear     | Ruby   | Green  | Blue   |
| \$3.00    | \$8.00 | \$8.00 | \$8.00 |

Colored globes are solid colors, not painted.

### Holophane Shade

With threaded brass ferrule spun around top opening. Fits cabin fixtures, Fig. Nos. 83 and 553.



Fig. 255

|                         |           |
|-------------------------|-----------|
| Outside diameter        | 4 in.     |
| Height overall          | 1 3/8 in. |
| Diameter of top opening | 7/8 in.   |
| Net weight, each        | 3 ozs.    |

|              |                 |
|--------------|-----------------|
| PRICE EACH   |                 |
| With Ferrule | Without Ferrule |
| \$1.40       | \$ .90          |

### Navy Lantern Globes

This globe is standard equipment in Navy lantern, Fig. No. 49.

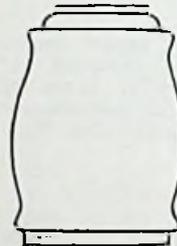


Fig. 262

|                       |              |
|-----------------------|--------------|
| Diameter of top       | 2 1/2 inches |
| Diameter of bottom    | 4 inches     |
| Height overall        | 6 1/2 inches |
| Net weight, per dozen | 9 pounds     |

|           |         |         |         |
|-----------|---------|---------|---------|
| PER DOZEN |         |         |         |
| Clear     | Ruby    | Green   | Blue    |
| \$5.00    | \$18.00 | \$18.00 | \$18.00 |

Colored globes are solid colors, not painted.

### Holophane or Frosted Dome Glasses

SHALLOW



Fig. 257

Fits dome lights, Fig. Nos. 387, 555, 294, 295, 296, 460.

| Trade Size Inches | Diam. Overall Inches | Depth Inches | Net Weight Each Ounces | Price Each |
|-------------------|----------------------|--------------|------------------------|------------|
| 3                 | 2 3/8                | 5/8          | 1                      | \$ .60     |
| 4                 | 4                    | 5/8          | 2                      | .70        |
| 5                 | 5                    | 1 1/4        | 4                      | .90        |
| 6                 | 6                    | 1 1/2        | 6                      | 1.40       |

### Globe Light Globes

Standard equipment in our globe lights, Fig. Nos. 44.



Fig. 264

Colored globes are red, green and blue, solid colors not painted. Frosted globes can also be furnished.

| Size | Diameter |        | Height Overall Inches | Clear Each | Frosted or Colored Each |
|------|----------|--------|-----------------------|------------|-------------------------|
|      | Top      | Bottom |                       |            |                         |
| 6    | 3 1/8    | 3 1/8  | 6 1/8                 | \$1.50     | \$3.50                  |
| 8    | 4        | 4      | 7 1/2                 | 2.50       | 4.00                    |
| 10   | 5 3/8    | 5 3/8  | 10 1/8                | 4.00       | 6.00                    |

### Holophane Dome Glasses

Fits dome light, Fig. No. 454.

DEEP



Fig. 258

| Outside Diam. Inches | Depth Inches | Net Weight Each Ounces | Price Each |
|----------------------|--------------|------------------------|------------|
| 4                    | 1 3/4        | 3                      | \$ .70     |
| 6                    | 2 3/4        | 11                     | 2.80       |

### English Cone Burner

ALL BRASS—HEAVY PATTERN

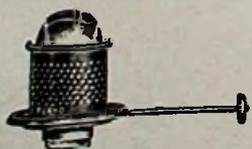


Fig. 244

Standard equipment on English running lights on page 29. Takes 3/8 inch flat wick.

Per Dozen .....\$24.00

### English Cone Chimneys

Standard equipment on English running lights, on page 29.



Fig. 269

|                    |           |
|--------------------|-----------|
| Diameter of top    | 4 1/2 in. |
| Diameter of bottom | 2 in.     |
| Height overall     | 4 in.     |
| Weight, per dozen  | 3 lbs.    |

|                   |        |
|-------------------|--------|
| PER DOZEN         |        |
| Clear             | \$6.50 |
| Colored (stained) | 8.00   |



### Fresnel Lenses

FOR SIDE AND COMBINATION LIGHTS



Fig. 259

| For                              | Height Overall In. | Outside Diam. Back In. | Cir. of Bull's Eye In. | Clear Each | Ruby or Green Each |
|----------------------------------|--------------------|------------------------|------------------------|------------|--------------------|
| Outboard Comb. Lights            | 2½                 | 2¾                     | 3                      | .....      | \$ .55             |
| Class 1 Comb. Lights             | 3¾                 | 3¾                     | 3¾                     | \$1.00     | .80                |
| Class 2 Side Lights              | 4¾                 | 3¾                     | 4¾                     | 1.50       | 1.10               |
| Class 3 Side Lights              | 5¾                 | 4¾                     | 5¾                     | 2.00       | 1.35               |
| No. 8 Side Lights                | 5¾                 | 4¾                     | 6¾                     | .....      | 2.70               |
| No. 9 Side Lights                | 5¾                 | 6¾                     | 8¾                     | .....      | 3.70               |
| No. 10 Side Lights               | 6¾                 | 7                      | 8¾                     | .....      | 4.20               |
| No. 11 Side Lights               | 7¾                 | 9                      | 11½                    | .....      | 8.00               |
| 8 inch Face Side Light           | 8¾                 | 7¾                     | 9¾                     | .....      | 8.00               |
| English or Norwegian Side Lights | 7                  | 10½                    | 12¾                    | \$8.00     | .....              |

FOR BOW LIGHTS—180 DEGREES



Fig. 260

| For                      | Height Overall Inches | Outside Diam. Back Inches | Cir. of Bull's Eye Inches | Clear Each | Col. Each |
|--------------------------|-----------------------|---------------------------|---------------------------|------------|-----------|
| Class 1 Bow Lights       | 3¾                    | 3¾                        | 5¾                        | \$ 1.10    | \$1.75    |
| Class 2 Bow Lights       | 4¾                    | 4¾                        | 6¾                        | 1.10       | 1.75      |
| Class 3 Bow Lights       | 5¾                    | 4¾                        | 7¾                        | 1.35       | 2.25      |
| No. 14 Bow Lights        | 5½                    | 5¾                        | 9½                        | 4.00       | 5.00      |
| No. 15 Bow Lights        | 6¾                    | 6                         | 9¾                        | 5.00       | 6.00      |
| No. 16 Bow Lights        | 7¾                    | 7¾                        | 12½                       | 6.00       | 8.00      |
| 8" Face Masthead Light   | 8¾                    | 7¾                        | 9¾                        | 7.00       | 9.00      |
| Eng. or Nor. Mast Light  | 7½                    | 8¾                        | 21                        | 12.00      | .....     |
| Eng. or Nor. Stern Light | 7½                    | 8¾                        | 10¾                       | 6.50       | .....     |

FOR ANCHOR LIGHTS—360 DEGREES



Fig. 261

| For                                | Height Overall Inches | Diam. Outside of Rim Inches | Clear Each | Colored Each |
|------------------------------------|-----------------------|-----------------------------|------------|--------------|
| Class 1 Stern Lights               | 3¾                    | 3¾                          | \$ .75     | \$ 1.10      |
| No. 21 Anchor Lights               | 4¾                    | 4                           | 1.10       | 1.65         |
| No. 22 Anchor Lights               | 5¾                    | 5                           | 3.00       | 5.50         |
| No. 22½ Anchor Lights              | 6¾                    | 5¾                          | 4.00       | 7.00         |
| No. 23 Anchor Lights               | 7                     | 7½                          | 5.60       | 10.50        |
| English or Norwegian Anchor Lights | 7½                    | 9¾                          | 12.00      | .....        |

### Fresnel Ball Globe

1¼ INCH DIAMETER



Fig. 604

With threaded brass ferrule, spun on globe, as illustrated. For pole lights, Fig. Nos. 600, 601, 602, 603, 846.

|                     |        |
|---------------------|--------|
| Outside diameter    | 1¾ in. |
| Height overall      | 1½ in. |
| Diameter of opening | 1½ in. |
| Net weight, each    | 1 oz.  |

|            |           |            |           |
|------------|-----------|------------|-----------|
| Clear Each | Ruby Each | Green Each | Blue Each |
| \$ .55     | \$ .90    | \$ .90     | \$ .90    |

2½ INCH DIAMETER

With threaded base, as illustrated, for pole lights, Fig. Nos. 470, 491, 498, 506, 422.



Fig. 250

|                     |        |
|---------------------|--------|
| Outside diameter    | 2½ in. |
| Height overall      | 2¾ in. |
| Diameter of opening | 1½ in. |
| Diameter of thread  | 2 in.  |
| Net weight, each    | 6 ozs. |

|            |           |            |           |
|------------|-----------|------------|-----------|
| Clear Each | Ruby Each | Green Each | Blue Each |
| \$ .75     | \$1.00    | \$1.00     | \$1.00    |

3 INCH DIAMETER

With threaded base, as illustrated, for pole lights, Fig. Nos. 508, 422, 470, 498, 506.



Fig. 251

|                     |        |
|---------------------|--------|
| Outside diameter    | 3 in.  |
| Height overall      | 3 in.  |
| Diameter of opening | 1½ in. |
| Diameter of thread  | 2 in.  |
| Net weight, each    | 7 ozs. |

|            |           |            |           |
|------------|-----------|------------|-----------|
| Clear Each | Ruby Each | Green Each | Blue Each |
| \$ .75     | \$1.00    | \$1.00     | \$1.00    |

3 INCH DIAMETER

With threaded base and rubber gasket. For mast lights, Figs. 103, 104, 105.



Fig. 249

|                     |         |
|---------------------|---------|
| Outside diameter    | 3 in.   |
| Height overall      | 3¾ in.  |
| Diameter of opening | 2¼ in.  |
| Diameter of thread  | 2¾ in.  |
| Net weight, each    | 10 ozs. |

|            |           |            |           |
|------------|-----------|------------|-----------|
| Clear Each | Ruby Each | Green Each | Blue Each |
| \$ .90     | \$1.25    | \$1.25     | \$1.25    |

4¼ INCH DIAMETER

With threaded base, as illustrated, for mast lights, Fig. Nos. 564, 565.



Fig. 252

|                     |         |
|---------------------|---------|
| Outside diameter    | 4¼ in.  |
| Height overall      | 3¾ in.  |
| Diameter of opening | 2¾ in.  |
| Diameter of thread  | 3 in.   |
| Net weight, each    | 10 ozs. |

|            |           |            |           |
|------------|-----------|------------|-----------|
| Clear Each | Ruby Each | Green Each | Blue Each |
| \$1.00     | \$1.50    | \$1.50     | \$1.50    |

3½ INCH DIAMETER

With threaded base for mast and stern lights, Figs. 112, 113.



Fig. 106

|                     |         |
|---------------------|---------|
| Outside diameter    | 3½ in.  |
| Height overall      | 5 in.   |
| Diameter of opening | 2¾ in.  |
| Diameter of thread  | 3¾ in.  |
| Net weight, each    | 1¼ lbs. |

|            |           |            |           |
|------------|-----------|------------|-----------|
| Clear Each | Ruby Each | Green Each | Blue Each |
| \$1.20     | \$2.30    | \$2.30     | \$2.30    |



**"Perko" Zinc Marine Oilers**

BRASS BOTTOM

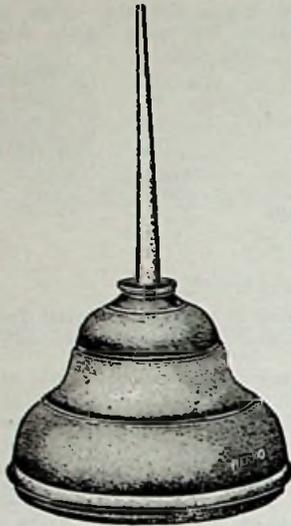


Fig. 326

Made of heavy gauge pure zinc, spring brass bottom, machine cut thread, interchangeable spouts.

|               |         |           |
|---------------|---------|-----------|
| No.           | 3       | 4         |
| Capacity      | 8 ozs.  | 12 ozs.   |
| Diameter      | 4 in.   | 4 1/2 in. |
| Length spout  | 4 in.   | 6 in.     |
| Wt. per gross | 40 lbs. | 48 lbs.   |

PRICE PER GROSS

|     |   |         |
|-----|---|---------|
| No. | 3 | \$56.00 |
| No. | 4 | 70.00   |

EXTRA SPOUTS

|     |   |        |         |
|-----|---|--------|---------|
| No. | 3 | 4 inch | \$16.00 |
| No. | 4 | 6 inch | 18.00   |

**Gasoline Funnels**

GALVANIZED—FOR OUTBOARD MOTORS AND RUNABOUTS



Fig. 589

Heavy gauge iron, fine copper mesh strainer and splash guard.

|                  |   |               |   |                  |     |                 |         |
|------------------|---|---------------|---|------------------|-----|-----------------|---------|
| Diam. Top Inches | 8 | Height Inches | 9 | Capacity Gallons | 1/2 | Price Per Dozen | \$12.00 |
|------------------|---|---------------|---|------------------|-----|-----------------|---------|

**Gasoline Funnel**

GALVANIZED



Fig. 196

Heavy galvanized iron, extra long spout, splash guard, fine copper mesh strainer, and extra ring for chamois.

|                  |    |                    |     |               |        |                  |     |                |         |
|------------------|----|--------------------|-----|---------------|--------|------------------|-----|----------------|---------|
| Diam. Top Inches | 8  | Diam. Spout Inches | 7/8 | Height Inches | 13     | Capacity Gallons | 1/2 | Price Per Doz. | \$12.00 |
| Diam. Top Inches | 10 | Diam. Spout Inches | 7/8 | Height Inches | 13 1/2 | Capacity Gallons | 1   | Price Per Doz. | 15.00   |

**"Perko" All Brass Marine Oilers**

INTERCHANGEABLE SPOUTS

Heavy brass body, machine cut threads, spring brass bottoms.



Fig. 127

|     |              |              |                      |                       |
|-----|--------------|--------------|----------------------|-----------------------|
| No. | Capacity Oz. | Diam. Inches | Length Spouts Inches | Weight Per Gross Lbs. |
| 33  | 8            | 4            | 4                    | 70                    |
| 44  | 12           | 4 1/2        | 6                    | 78                    |

PRICE PER GROSS

|     |    |         |
|-----|----|---------|
| No. | 33 | \$65.00 |
| No. | 44 | 80.00   |

EXTRA SPOUTS

|     |    |        |         |
|-----|----|--------|---------|
| No. | 33 | 4 inch | \$22.00 |
| No. | 44 | 6 inch | 26.00   |

**Universal Wall Lamp**



Fig. 312

Constructed of heavy tin plate, black Japanned fount, polished tin reflector, handle for carrying. Furnished complete with No. 2 burner, Fig. No. 248. wick, and No. 2 sun chimney, Fig. No. 268. Hole in reflector for hanging on wall.

|                                |   |              |   |                      |       |                     |        |
|--------------------------------|---|--------------|---|----------------------|-------|---------------------|--------|
| Height of Back of Fount Inches | 9 | Diam. Inches | 5 | Net Weight Each Lbs. | 1 1/2 | Price Each Complete | \$1.50 |
|--------------------------------|---|--------------|---|----------------------|-------|---------------------|--------|

**Eastern Funnel**

NARROW TOP—FOR NARROW SPACES



Fig. 318

Heavy galvanized iron, wire enclosed bead around mouth, extra long spout, fine copper mesh strainer.

|                  |       |                       |    |                    |   |                     |   |
|------------------|-------|-----------------------|----|--------------------|---|---------------------|---|
| Diam. Top Inches | 5 1/2 | Length Overall Inches | 16 | Diam. Spout Inches | 1 | Length Spout Inches | 7 |
|------------------|-------|-----------------------|----|--------------------|---|---------------------|---|

PRICE PER DOZEN

Galvanized \$12.00

**Chart Cases**



Fig. 372

Made of galvanized iron or sheet copper, water-tight cover, folding handle on side for carrying.

|              |   |               |    |            |        |             |        |
|--------------|---|---------------|----|------------|--------|-------------|--------|
| Diam. Inches | 3 | Length Inches | 36 | Galv. Each | \$3.60 | Copper Each | \$7.00 |
| Diam. Inches | 4 | Length Inches | 36 | Galv. Each | 4.50   | Copper Each | 8.00   |

**Pitch Payers**



Fig. 178

Heavy galvanized iron, double seamed and soldered, handle riveted to top, inside strainer riveted to body.

|              |   |                    |    |                       |    |             |       |            |        |
|--------------|---|--------------------|----|-----------------------|----|-------------|-------|------------|--------|
| Diam. Inches | 7 | Length Body Inches | 13 | Length Overall Inches | 20 | Weight Lbs. | 1 1/2 | Price Each | \$2.00 |
|--------------|---|--------------------|----|-----------------------|----|-------------|-------|------------|--------|



## Signal Torch



Fig. 177

Made of heavy galvanized iron. Handle riveted to body, cast iron claws for holding wick.

Diameter, 5½ inches  
Height, 15 inches  
Weight, 2¾ pounds

Price each \$3.00

## Folding Wash Basin

PORTABLE  
WITH ENAMELLED BASIN



Open



Closed

Fig. 459

Owners of boats large and small will appreciate how useful a basin of this sort can be at various times especially when plenty of visitors are aboard. Its low price will enable one to have a few on the boat stowed away for emergencies, basin is removable from rack, complete with wire soap holder.

| Complete Each | Diameter Basin Inches | Height Back Inches | Width Back Inches | Depth Open Inches | Depth Closed Inches |
|---------------|-----------------------|--------------------|-------------------|-------------------|---------------------|
| \$2.90        | 11¾                   | 12                 | 11                | 12                | 4½                  |

## Binnacle Lamp

HALF ROUND—WROUGHT BRASS

Made of heavy brass. Complete with oil fount and burner. Hinged door and sliding latch.



Fig. 147

| No. | Height Overall Inches | Height Frame Inches | Width Overall Inches | Size Glass Inches |
|-----|-----------------------|---------------------|----------------------|-------------------|
| 2   | 8¼                    | 5½                  | 4¾                   | 3 x 4½            |
| 3   | 10                    | 7                   | 6                    | 3¾ x 5½           |

| No. | Polished Brass Each |
|-----|---------------------|
| 2   | \$6.00              |
| 3   | 7.50                |

## Round Binnacle Lamp

Spun from heavy brass, removable oil or electric fount, spring catch and collar for mounting.

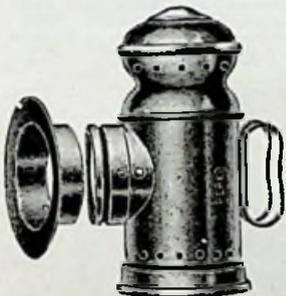


Fig. 148

| No. | Height Overall Inches | Diam. Body Inches | Diam. Glass Inches |
|-----|-----------------------|-------------------|--------------------|
| 4   | 4¾                    | 2                 | 1¾                 |
| 5   | 7                     | 2¾                | 2¾                 |

| No. | Polished Brass Each |
|-----|---------------------|
| 4   | \$5.50              |
| 5   | 6.50                |

## Side Light Screens

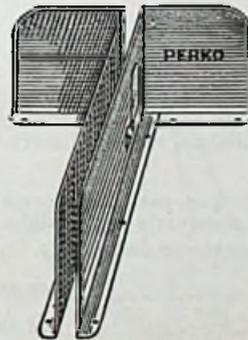


Fig. 316

Made of heavy sheet iron, well reinforced, painted red and green. Collapsible when not in use.

| Class | Length Inches | Price Per Pair |
|-------|---------------|----------------|
| 2     | 18            | \$2.50         |
| 3     | 24            | 3.00           |

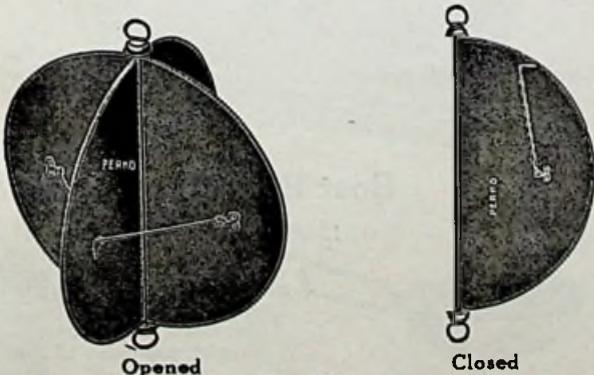
## All Metal Day Signal

GALVANIZED AND PAINTED

Made of heavy gauge galvanized sheet iron, and painted, used as day signals on dredges or vessels moored in channels, etc.

A 24 inch diameter sphere when open, and can be closed for storage, taking up very little space.

|                       |        |
|-----------------------|--------|
| Galvanized only, each | \$8.00 |
| Painted Black, each   | 9.00   |
| Painted Red, each     | 9.00   |



Opened

Closed

Fig. 256



### Emergency Self Lighting Water Light

FOR ATTACHMENT TO RING BUOYS



Fig. 843

To be hung on boat rail by top ring and attached to ring buoy by bottom ring and line. Lights automatically and immediately on striking the water, gives a 250 candle power white light and burns for 45 minutes. Approved by U. S. Board of Supervising Inspectors.

| Size Overall Inches | Weight Pounds | Price Each |
|---------------------|---------------|------------|
| 5x8                 | 3             | \$5.00     |

### Distress Outfits

IMPROVED COPPER CASE



Fig. 844

Consists of twelve red signals, each capable of burning two minutes with an intense brilliancy, clearly discernable for over five miles at sea.

Case made of 18 oz. cold rolled copper, cast brass cover and rubber gasket, (cut thread), absolutely water tight. Approved by U. S. Board of Supervising Inspectors.

|                                      |        |
|--------------------------------------|--------|
| Price per outfit, complete           | \$8.00 |
| Flares Only—Per Dozen                | \$4.20 |
| Cans Only—10½ inches high—Price Each | 5.00   |

Height does not include cover, but price does.

### Axe Brackets

Made of heavy gauge brass or black iron. Large enough to take axe blade up to 6 inches wide.

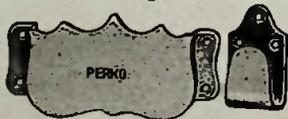


Fig. 325

|                | Blade Brackets Only Per Dozen | Hooks Only Per Dozen |
|----------------|-------------------------------|----------------------|
| Japanned Steel | \$3.60                        | \$1.20               |
| Polished Brass | 6.50                          | 2.50                 |

### Bread Breakers

GALVANIZED

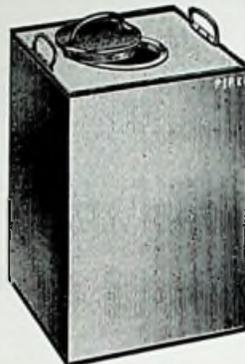


Fig. 155

Heavy galvanized sheet iron, double seamed edges, well soldered, cast bronze cover and ring, thick rubber gasket, water-tight, two folding handles. Every breaker fully tested before leaving factory.

Diameter cover, 5 inches.

| Capacity Lbs. | Size Inches  | Weight Lbs. | Price Each |
|---------------|--------------|-------------|------------|
| 25            | 12 x 12 x 18 | 13          | \$5.00     |
| 40            | 15 x 15 x 21 | 15          | 5.60       |
| 50            | 15 x 15 x 24 | 18          | 6.00       |
| 60            | 15 x 15 x 30 | 19          | 6.50       |
| 80            | 24 x 24 x 24 | 32          | 7.50       |
| 100           | 24 x 24 x 30 | 40          | 8.00       |

### Bread Breaker Caps

NEW STYLE  
CAST BRONZE



Fig. 72

Complete with rubber gasket and ring for fitting to tank, cut threads.

| Price Per Set | Extra Gaskets Each | Outside Diam. Cover Inches | Inside Diam. Opening Inches | Weight Each Pounds |
|---------------|--------------------|----------------------------|-----------------------------|--------------------|
| \$2.00        | \$.18              | 5¾                         | 4¾                          | 2                  |

### Wood Dory Scoops



Fig. 77

|                          |                  |
|--------------------------|------------------|
| Large and Small Assorted | Per Doz. \$10.00 |
|--------------------------|------------------|

### Boat Bailers

GALVANIZED



Fig. 180

Made of black steel, hot galvanized after completed, handle riveted to body. Diameter, 8¾ inches. Weight, per doz., 12 lbs.

Price each \$ .90

## Copper Flashlight Case

WATERTIGHT—INSULATED

Every life boat must have a flashlight contained in a portable, watertight metal case.

Made of 18 ounce copper with insulation top, bottom and sides, cast bronze threaded top.

|            |               |                        |
|------------|---------------|------------------------|
| Price Each | Length Inches | Inside Diameter Inches |
| \$3.00     | 10            | 2 1/16                 |

Fig. 132

## Match Container

WATERTIGHT

Every life boat must have matches in a watertight container. Made of heavy gauge polished tin, just large enough to contain 12 boxes of safety matches in their original package.

|            |               |                        |
|------------|---------------|------------------------|
| Price Each | Length Inches | Inside Diameter Inches |
| \$ .90     | 5 1/4         | 3 3/8                  |

Fig. 133

## Ditty Bags COMPLETE

A waterproof canvas bag containing sailmaker's palm, needles, sail twine, marline, marline spike, and wax.

Complete, Each ..... \$3.50

One box matches sewed in waterproof canvas, add \$ .50.

Fig. 85

## Storage Locker GALVANIZED

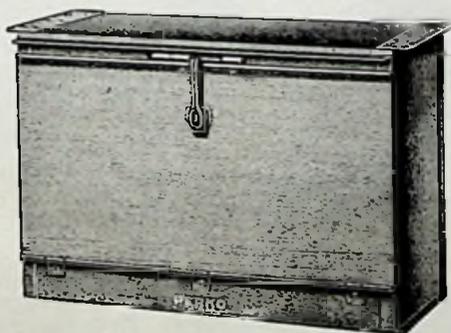


Fig. 84

Made to meet the latest requirements of the U. S. Steamboat Inspection Service for a locker for the storage and preservation of small items of equipment in life boats.

Made of heavy galvanized sheet iron. Has a large hinged front door with a positive locking device.

|            |               |               |              |               |
|------------|---------------|---------------|--------------|---------------|
| Price Each | Length Inches | Height Inches | Width Inches | Weight Pounds |
| \$6.50     | 24            | 16            | 9 1/2        | 13            |

## Searchlight

FOR MOTOR LIFE BOATS  
WITH 80 WATT BULB—FOR 6, 12 OR 32 VOLTS

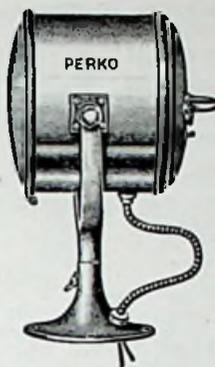


Fig. 305

A heavy brass body on cast bronze base, a highly polished chromium plated reflector and convex front lens, wiring is protected by flexible metal hose and waterproof insulation. Double contact Edison sockets are standard equipment.

|        |                              |                |                     |
|--------|------------------------------|----------------|---------------------|
| Height | Diam. Over-Reflector all In. | Diam. Base In. | Polished Brass Each |
| 17     | 10                           | 5 1/2          | \$34.00             |

Specify voltage when ordering.

## Automatic Boat Drain CAST BRONZE—PLAIN

For use in life boats. Made of heavy cast bronze, with sponge rubber ball valve. Cast bronze cover with chain attached, threaded 1 1/8 inches, No. 14 thread.



Fig. 213

|               |                           |                      |                      |                     |
|---------------|---------------------------|----------------------|----------------------|---------------------|
| Complete Each | Caps Only With Chain Each | Balls Only Per Dozen | Diam. Opening Inches | Diam. Flange Inches |
| \$2.50        | \$.85                     | \$1.50               | 1 1/4                | 3 3/8               |

## Sea Anchors and Cans APPROVED BY THE STEAMBOAT INSPECTION SERVICE

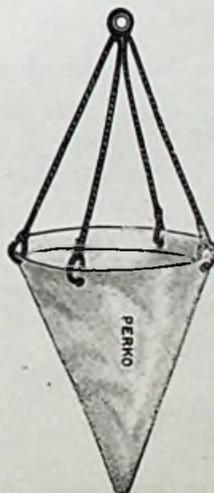


Fig. 517



Fig. 179

Sea anchor, Fig. 517, is made of good quality heavy weight canvas.

Can or oil container made of heavy galvanized sheet iron, complete with attaching ring, two brass pet cocks and filling cap.

|                           |                        |                               |                  |               |
|---------------------------|------------------------|-------------------------------|------------------|---------------|
| Diameter of Anchor Inches | Capacity of Can Quarts | Anchor with Can Complete Each | Anchor Only Each | Can Only Each |
| 24                        | 4                      | \$5.00                        | \$3.20           | \$1.80        |
| 30                        | 4                      | 8.50                          | 6.70             | 1.80          |

## Watertight Receptacles and Plugs

CAST BRONZE—DIPPED FINISH

All insulated with best quality bakelite, all furnished with watertight cap.

For all voltages from 6 to 125

### FLUSH TYPE WITHOUT BOX



Fig. 968

To meet the requirements for yachts where size and space is limited.

|               | Plug Only Each | Diam. Plate Inches | Depth Inches |
|---------------|----------------|--------------------|--------------|
| Complete Each | \$3.50         | 2 1/4              | 3/4          |

### FLUSH TYPE WITH BOX

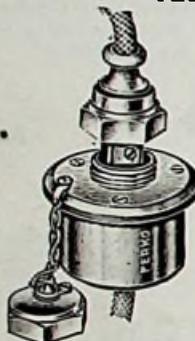


Fig. 969

Furnished with watertight box, bottom inlet in box unless otherwise specified.

| Diam. Plate Inches | Diam. Box Inches | Depth Box Inches |
|--------------------|------------------|------------------|
| 2 1/4              | 1 1/2            | 1 1/8            |

|               |        |                |        |
|---------------|--------|----------------|--------|
| Complete Each | \$4.25 | Plug Only Each | \$1.50 |
|---------------|--------|----------------|--------|

## Gang Type Receptacle and Plug

SURFACE TYPE

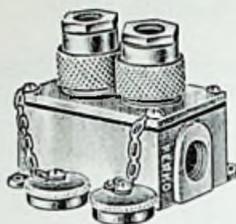


Fig. 972

Two wire type plugs, all insulation is best quality bakelite. Mounting lugs an integral part of box.

| Length Inches | Width Inches | Depth Inches |
|---------------|--------------|--------------|
| 3 1/4         | 2 1/4        | 1 5/8        |

Complete with Plugs, Each ..... \$7.50

## Combination Switch and Receptacle

SURFACE TYPE

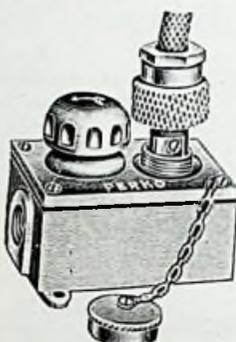


Fig. 973

Allows control of all lights on one circuit. Switch, receptacle and plug all in one unit. Mounting lugs are integral part of box.

| Length Inches | Width Inches | Depth Inches |
|---------------|--------------|--------------|
| 3 1/4         | 2 1/4        | 1 3/8        |

Price Complete ..... \$7.50

## Watertight Snap Switch

FLUSH TYPE OR SURFACE TYPE

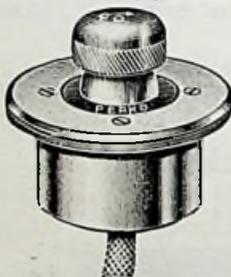


Fig. 974

An excellent watertight snap switch for all classes of yachts. Ratchet under knob to prevent turning in wrong direction.

|              | Diam. Plate Inches | Diam. Box Inches | Depth Box Inches |
|--------------|--------------------|------------------|------------------|
| Flush Type   | 3 1/2              | 2 1/2            | 1 1/2            |
| Surface Type |                    | 2 3/8            | 1 1/2            |

|                    |                   |                     |
|--------------------|-------------------|---------------------|
| Single Pole Switch | Flush Type \$5.50 | Surface Type \$4.50 |
| Double Pole Switch | 5.75              |                     |

### HEAVY DUTY FLUSH TYPE

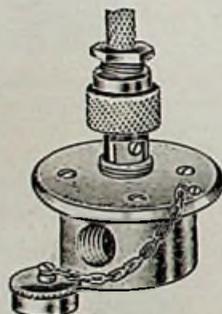


Fig. 970

For the larger yachts from 40 feet up in length. Specify whether side or bottom outlet is desired.

| Diam. Plate Inches | Diam. Box Inches | Depth Box Inches |
|--------------------|------------------|------------------|
| 3 1/2              | 2 1/2            | 1 1/2            |

|               |        |                  |        |                  |        |                       |        |
|---------------|--------|------------------|--------|------------------|--------|-----------------------|--------|
| Complete Each | \$5.50 | 2 Wire Plug Each | \$1.50 | 3 Wire Plug Each | \$2.25 | 3 Wire Interior Extra | \$ .50 |
|---------------|--------|------------------|--------|------------------|--------|-----------------------|--------|

### HEAVY DUTY SURFACE TYPE

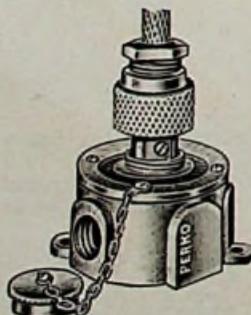


Fig. 971

Also for larger yachts where a surface type is required. Side outlet furnished unless otherwise specified.

| Diam. Box Inches | Depth Box Inches |
|------------------|------------------|
| 2 3/4            | 1 3/4            |

|               |        |                  |        |                  |        |                       |        |
|---------------|--------|------------------|--------|------------------|--------|-----------------------|--------|
| Complete Each | \$5.00 | 2 Wire Plug Each | \$1.50 | 3 Wire Plug Each | \$2.25 | 3 Wire Interior Extra | \$ .50 |
|---------------|--------|------------------|--------|------------------|--------|-----------------------|--------|

## Watertight Junction Box

SURFACE TYPE

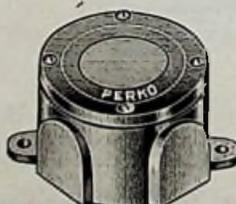


Fig. 975

Made of cast bronze, can be threaded for three circuits if necessary. Mounting lugs are integral part of box.

| Diam. Box Inches | Depth Box Inches |
|------------------|------------------|
| 2 3/4            | 1 3/4            |

Without interior, each ..... \$1.75

With block for one circuit, Each ..... 2.25

Tapped for 2 or 3 circuits at small extra charge

## Watertight Connection

### DOUBLE CONTACT

**DECK SOCKET.** All brass, double contact, complete with threaded cap and chain as illustrated.

**PLUG.** All brass, double contact, threaded lock nut for fastening to deck socket, Fig. 423. Threaded cap with rubber gasket inside to prevent water running down cable.

Deck Socket

All Metal Plug



Fig. 423



Fig. 425

|             |                           |                          |                            |
|-------------|---------------------------|--------------------------|----------------------------|
|             | Polished<br>Brass<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each |
| Socket Only | \$ .90                    | \$1.10                   | \$1.50                     |
| Plug Only   | .90                       | 1.10                     | 1.50                       |

## Watertight Connection

### DOUBLE CONTACT



Fig. 477

Cast bronze socket with cap and chain, as illustrated. Hard rubber plug locked in place by bronze cap with rubber gasket to prevent water running down wire.

|                           |                          |                            |
|---------------------------|--------------------------|----------------------------|
| Polished<br>Brass<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each |
| \$1.50                    | \$1.75                   | \$2.25                     |

Composition Interiors Only  
Per Set, \$ .70

## Flush Deck Socket

### WATERTIGHT

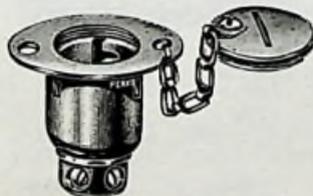


Fig. 357

A double contact socket with cover and rubber gasket, watertight, flush with deck.

Heavy brass body and cover.

Price Each .....\$ .80

## Plugs and Sockets

### DOUBLE CONTACT



Fig. 399

Contact pins in socket, brass nickel plated socket, composition plug.

Size of flange, 1 1/4 x 1 1/2.  
Price Complete ..... \$ .60

## Plugs and Sockets

### DOUBLE CONTACT—BRASS CASE



Fig. 404

This is the type connector used in our pole light assembly, Figs. 481, 590 and 591. Hard rubber insulation, no springs to go wrong and cause trouble. We recommend this as the most practical connector for use around salt water.

|                  |                              |                                       |
|------------------|------------------------------|---------------------------------------|
| Complete<br>Each | Diameter<br>Flange<br>Inches | Length<br>Overall<br>Closed<br>Inches |
| \$1.25           | 1 1/4                        | 2 1/8                                 |

## Composition Connector

### DOUBLE CONTACT



Fig. 749

Price Each .....\$0.50

## Brass Case Connector

### DOUBLE CONTACT



Fig. 750

Metal caps and hard rubber body. Price, each ....\$0.60

Metal clad throughout.  
Price, each .....\$0.70

## Bakelite Base Socket

### SINGLE OR DOUBLE CONTACT



Fig. 472

Diameter base, 1 3/8 inches.  
Height, 1 inch.

|                   |             |
|-------------------|-------------|
| No.               | Each        |
| 20 Double Contact | .....\$ .40 |
| 21 Single Contact | ..... .40   |

## Single End Socket

### DOUBLE CONTACT



Fig. 747 Price Each ..... \$ .15

## Double End Socket

### WITH ADJUSTABLE NUTS

### DOUBLE CONTACT



Fig. 748

Price Each ..... \$ .35



## Electric Sockets

### DOUBLE CONTACT

Brass, nickel plated casing and flange. Hard rubber insulation.

Single End Socket



Fig. 377

Double End Socket



Fig. 378

Size Flange  
1 1/2" x 1 1/2"

|                            |            |        |
|----------------------------|------------|--------|
| Fig. 377—Single end socket | Price Each |        |
| Fig. 378—Double end socket |            |        |
|                            |            | \$ .25 |
|                            |            | .30    |

## Electric Adapters

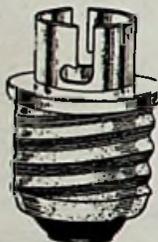


Fig. 405

No. 670 Standard to D. C. Ediswan Base  
No. 680 Standard to S. C. Ediswan Base

|         |      |        |
|---------|------|--------|
| No. 670 | Each |        |
| No. 680 |      |        |
|         |      | \$ .50 |
|         |      | .50    |

## Double Contact Adapter ALL BRASS

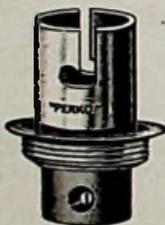


Fig. 355

For converting oil fount into electric fount. Punch a hole in bottom of fount and screw adapter in place of oil burner.

Price per dozen \$4.80

## Double Contact Plugs

COMPOSITION OR ALL METAL



Composition  
Fig. 746



All Metal  
Fig. 383

With flush type contact screws, used with sockets Figs. 357, 472, 747, 748, 377, 378.

|                            |        |
|----------------------------|--------|
| Fig. 746—Composition, each | \$ .15 |
| Fig. 383—All Metal, each   | .25    |

## Lighting Switches

FOR ALL VOLTAGES FROM 6 TO 120

### THE STANDARD

With cadmium plated frame and bakelite sliding button.

|                       |                      |                    |
|-----------------------|----------------------|--------------------|
| Extreme Length Inches | Extreme Width Inches | Width Frame Inches |
| 1 3/4                 | 3/4                  | 1/2                |

Price Each ..... \$ .40

Can be furnished with nickel plated face plate 1"x1 1/4", same as fig. 718, price complete ..... \$ .75

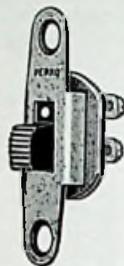


Fig. 717

### THE DE-LUXE

With brass face plate in polished or plated finishes. Ideal for mounting on dash board or bulkhead.

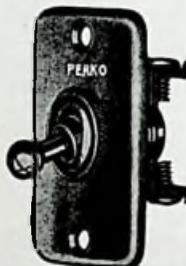


Fig. 718

|                          |                         |
|--------------------------|-------------------------|
| Length Face Plate Inches | Width Face Plate Inches |
| 1 3/4                    | 1                       |

|                     |                    |                     |                      |
|---------------------|--------------------|---------------------|----------------------|
| Polished Brass Each | Nickel Plated Each | Black Enameled Each | Chromium Plated Each |
| \$ .60              | \$ .60             | \$ .60              | \$ .70               |

### THE DE-LITE

A neat double switch very useful on cruisers, using one for running lights, the other for cabin fixtures.

With brass face plate in polished or plated finishes.



Fig. 719

|                          |                         |
|--------------------------|-------------------------|
| Length Face Plate Inches | Width Face Plate Inches |
| 2 1/8                    | 1 3/4                   |

|                     |                    |                     |                      |
|---------------------|--------------------|---------------------|----------------------|
| Polished Brass Each | Nickel Plated Each | Black Enameled Each | Chromium Plated Each |
| \$1.25              | \$1.25             | \$1.25              | \$1.40               |

### TOGGLE TYPE FOR THRU THE DASH MOUNTING

It is only necessary to drill a 1/4" hole in dash for mounting.

Composed of bakelite and brass nickel plated, furnished complete with lock nut, washer and 6" wire leads.

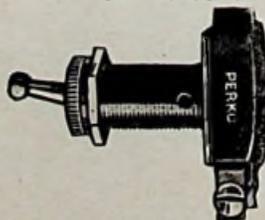


Fig. 745

Price Each ..... \$ .50

## HEAVY DUTY—PUSH AND PULL TYPE

With polished brass or nickel plated oblong plates and push buttons.

Will take more amperage and voltage than any similar switch on the market.



Fig. 740

|               |        |
|---------------|--------|
|               | Each   |
| 1 point ..... | \$0.40 |
| 2 point ..... | 0.80   |
| 3 point ..... | 1.20   |
| 4 point ..... | 1.60   |

Please specify finish of plate when ordering.

## Knife or Battery Switches

UPRIGHT TYPE



Fig. 70

|     |  |
|-----|--|
| No. | Size Base Inches   |
| 1   | 2 <sup>7</sup> / <sub>16</sub> x 1 <sup>1</sup> / <sub>4</sub> |
| 2   | 3 <sup>3</sup> / <sub>8</sub> x 1 <sup>5</sup> / <sub>16</sub> |

|                                   |                 |                     |
|-----------------------------------|-----------------|---------------------|
| No.                               | Fibre Base Each | Porcelain Base Each |
| 1 Single Pole, Single Throw ..... | \$ .35          | \$ .20              |
| 2 Single Pole, Double Throw ..... | .45             | .32                 |

## Knife or Battery Switches

SIDE TYPE



Fig. 74

|     |   |
|-----|---|
| No. | Size Base Inches  |
| 3   | 2 <sup>1</sup> / <sub>16</sub> x 1 <sup>1</sup> / <sub>16</sub> |
| 4   | 2 <sup>1</sup> / <sub>4</sub> x 1 <sup>1</sup> / <sub>16</sub>  |

|                                   |                 |
|-----------------------------------|-----------------|
| No.                               | Fibre Base Each |
| 3 Single Pole, Single Throw ..... | \$ .30          |
| 4 Single Pole, Double Throw ..... | .40             |

## Dashboard Lamp

BRASS—NICKEL PLATED

WITH SWITCH

A neat lamp for use on dashboards of runabouts, or any place where a small lamp of this type can be used. Ediswan double contact socket.

|                                |   |                               |
|--------------------------------|---|-------------------------------|
| Height Overall Inches          | Size Base Inches  | Weight Each Oz.               |
| 2 <sup>1</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> |

Price Each \$ .90



Fig. 184

## Brass Cable Straps

A very handy and useful article, used extensively on all types of boats for fastening copper tubing, control wire casing, and electric cable to bulkheads, floors, etc.



Fig. 121



Fig. 1075

| Inside Diam. Inches          | Fig. 121 Per 100 | Fig. 1075 Per 100 | Inside Diam. Inches          | Fig. 121 Per 100 | Fig. 1075 Per 100 |
|------------------------------|------------------|-------------------|------------------------------|------------------|-------------------|
| <sup>1</sup> / <sub>8</sub>  | \$1.10           | \$1.30            | <sup>1</sup> / <sub>16</sub> | \$1.40           | \$1.70            |
| <sup>3</sup> / <sub>16</sub> | 1.10             | 1.30              | <sup>1</sup> / <sub>4</sub>  | 1.60             | 1.90              |
| <sup>1</sup> / <sub>4</sub>  | 1.20             | 1.45              | <sup>3</sup> / <sub>8</sub>  | 2.50             | 3.00              |
| <sup>3</sup> / <sub>16</sub> | 1.20             | 1.45              | <sup>1</sup> / <sub>2</sub>  | 2.75             | 3.30              |
| <sup>1</sup> / <sub>2</sub>  | 1.40             | 1.70              |                              |                  |                   |

## FLAT TYPE FOR LEAD COVERED CABLE BRASS



Fig. 1076



Fig. 1077

| Inside Measurements Inches                                  | Fig. 1076 Per 100 | Fig. 1077 Per 100 |
|---|-------------------|-------------------|
| <sup>1</sup> / <sub>16</sub> x <sup>1</sup> / <sub>16</sub> | \$3.00            | \$3.60            |

## Brass Cable Straps Cable Outlet

CAST BRONZE



Fig. 424

Waterproof cable outlet with threaded cap and rubber gasket to prevent water running down cable. This fitting makes a watertight outlet on the boat and prevents wear on cable insulation from chafing.

|                     |                    |                      |
|---------------------|--------------------|----------------------|
| Polished Brass Each | Nickel Plated Each | Chromium Plated Each |
| \$ .50              | \$.80              | \$1.25               |

## Trouble Light

Brass body, nickel plated, double contact socket, 21 candle power, 6 volt bulb, 3 inch diameter magnifying lens, complete with switch, 10 feet wire and plug.



Fig. 389

Length overall, 10"  
Price each \$3.00

### Lighting and Ignition Cable

All cable illustrated is of the highest grade obtainable, all have flexible stranded copper conductors.

**PACKED IN COILS OF 100 FEET EACH  
BRAIDED PRIMARY WIRE  
FOR BATTERY IGNITION OR LIGHTING  
PURPOSES**



16 Gauge  
5/32" Outside Diameter

Fig. 751

Price, per 100 Feet .....\$2.35

**BRAIDED MAGNETO OR HIGH TENSION WIRE**



16 Gauge  
9/32" Outside Diameter

Fig. 752

Price, per 100 Feet .....\$5.50

**BRAIDED DOUBLE LOW TENSION WIRE  
FOR BATTERY IGNITION OR LIGHTING**



16 Gauge  
Size 3/16" x 23/64"

Fig. 753

Price, per 100 Feet .....\$6.60

**RUBBER COVERED PRIMARY WIRE  
FOR BATTERY IGNITION OR LIGHTING  
PURPOSES**



16 Gauge  
9/32" Outside Diameter

Fig. 754

Price, per 100 Feet .....\$5.00

**RUBBER COVERED HIGH TENSION WIRE**



16 Gauge  
11/32" Outside Diameter

Fig. 755

Price, per 100 Feet .....\$5.40

**ARMORED LIGHTING CABLE**



Single, 1/8" Outside Diam.  
Double, 5/32"x9/32"

Fig. 756

Single Conductor—Price, per 100 Feet .....\$4.20

Double Conductor—Price, per 100 Feet ..... 8.00

**LEAD ENCASED RUBBER COVERED CABLE  
FOR LIGHTING PURPOSES**



18 Gauge  
Size, 3/16" x 7/16"

Fig. 757

Price, per 100 Feet .....\$6.70

### OUTSIDE LIGHTING CABLE TWIN CONDUCTOR—WATERPROOF



18 Gauge  
25/64" Outside Diameter

Fig. 758

Price, per 100 Feet .....\$11.25

### Duplex Electric Cable DOUBLE RUBBER COVERED

The cable we use in wiring all of our outside electrical fittings such as pole lights, etc.

Stranded cable is protected by double rubber insulation, size is 3/8 x 1/8 inches.



Fig. 497

50 foot coils  
100 foot coils  
1000 foot coils

Per Coils  
\$ 3.00  
5.50  
45.00

### Binnacle Lamp WROUGHT BRASS

Made for use with skylight type binnacles shown on page 63. Brass body, complete with oil fount and burner.



Fig. 413

| Height<br>Inches | Diam.<br>Inches | Size<br>Glass<br>Inches | Price<br>Each |
|------------------|-----------------|-------------------------|---------------|
| 5 1/2            | 2 3/8           | 1 1/2 x 2 1/4           | \$2.50        |
| 6 1/2            | 3               | 2 1/4 x 2 3/8           | 2.50          |

### Emergency Light

WITH RUBBER SUCTION HOLDER



Fig. 798

Small and compact, easily stored but always ready for use in emergencies, used as a trouble light when working around motor or inside of hull, can also be used as emergency riding light when necessary, furnished with 10 ft. wire, bulb and battery clips, ready for instant use.

PRICE EACH .....\$1.50





## REGULATIONS OF MOTOR BOATS

DEPT. OF COMMERCE  
BUREAU OF NAVIGATION

DEPT. CIRCULAR NO. 236  
THIRTEENTH EDITION  
April 7, 1930

To collectors of customs, supervising and local inspectors. Steamboat Inspection Service, and others concerned:

Your attention is invited to the following act of Congress, approved June 9, 1910:

An Act to amend laws for preventing collisions of vessels and to regulate equipment of certain motor boats on the navigable waters of the United States.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the words "motor boat" where used in this Act shall include every vessel propelled by machinery and not more than sixty-five feet in length, except tug boats and tow boats propelled by steam. The length shall be measured from end to end over the deck, excluding sheer: *Provided*, That the engine, boiler, or other operating machinery shall be subject to inspection by the local inspectors of steam vessels, and to their approval of the design thereof, on all said motor boats, which are more than forty feet in length, and which are propelled by machinery driven by steam.

SEC. 2. That motor boats subject to the provisions of this Act shall be divided into classes as follows:

Class one. Less than twenty-six feet in length.

Class two. Twenty-six feet or over and less than forty feet in length.

Class three. Forty feet or over and not more than sixty-five feet in length.

SEC. 3. That every motor boat in all weathers from sunset to sunrise shall carry the following lights, and during such time no other lights which may be mistaken for those prescribed shall be exhibited.

(a) Every motor boat of class one shall carry the following lights:

First. A white light aft to show all around the horizon.

Second. A combined lantern in the forepart of the vessel and lower than the white light aft showing green to starboard and red to port, so fixed as to throw the light from right ahead to two points abaft the beam on their respective sides.

(b) Every motor boat of classes two and three shall carry the following lights:

First. A bright white light in the fore part of the vessel as near the stem as practicable, so constructed as to show an unbroken light over an arc of the horizon of twenty points of the compass, so fixed as to throw the light ten points on each side of the vessel, namely, from right ahead to two points abaft the beam on either side. The glass or lens shall be of not less than the following dimensions:

Class two. Nineteen square inches.

Class three. Thirty-one square inches.

Second. A white light aft to show all around the horizon.

Third. On the starboard side a green light so constructed as to show an unbroken light over an arc of the horizon of ten points of the compass, so fixed as to throw the light from right ahead to two points abaft the beam on the starboard side. On the port side a red light so constructed as to show an unbroken light over an arc of the horizon of ten points of the compass, so fixed as to throw the light from right ahead to two points abaft the beam on the port side. The glasses or lenses in the said side lights shall be of not less than the following dimensions on motor boats of—

Class two. Sixteen square inches.

Class three. Twenty-five square inches.

On and after July first, nineteen hundred and eleven, all glasses or lenses prescribed by paragraph (b) of section three shall be fresnel or fluted. The said lights shall be fitted with inboard screens of sufficient height and so set as to prevent these lights from being seen across the bow and shall be of not less than the following dimensions on motor boats of—

Class two. Eighteen inches long.

Class three. Twenty-four inches long:

*Provided*, That motor boats as defined in this Act, when propelled by sail and machinery or under sail alone, shall carry the colored lights suitably screened but not the white lights prescribed by this section.

SEC. 4. (a) Every motor boat under the provisions of this Act shall be provided with a whistle or other sound-producing mechanical appliance capable of producing a blast of two seconds or more in duration, and in the case of such boats so provided a blast of at least two seconds shall be deemed a prolonged blast within the meaning of the law.

(b) Every motor boat of class two or three shall carry an efficient foghorn.

(c) Every motor boat of class two or three shall be provided with an efficient bell, which shall be not less than eight inches across the mouth, on board of vessels of class three.

*Tabulated statement of equipment required*

|               | Carrying passengers for hire   |                             |  |                              | Not carrying passengers for hire   |                             |   |                              |
|---------------|--|-----------------------------|--|------------------------------|--|-----------------------------|---|------------------------------|
|               | Sec. 3   | Sec. 4                      | Sec. 5   | Sec. 6                       | Sec. 3   | Sec. 4                      | Sec. 5  | Sec. 6                       |
| Class 1 ..... | Combination light forward. White light aft.  | Whistle .....               | Life preservers. Licensed operator. Same as class 1. | Approved fire extinguishers. | Combination light forward. White light aft.  | Whistle .....               | Life preservers or life-saving devices prescribed by Act. | Approved fire extinguishers. |
| Class 3 ..... | White lights forward and aft and colored side lights, all with fresnel or fluted lenses. | Whistle, bell, and foghorn. | Same as class 1.                                     | Same as class 1.             | White lights forward and aft and colored side lights, all with fresnel or fluted lenses. | Whistle, bell, and foghorn. | Same as class 1.  | Same as class 1.             |
| Class 2 ..... | Same as class 2.   | Same as class 2.            | Same as class 1.                                     | Same as class 1.             | Same as class 2.   | Same as class 2.            | Same as class 1.  | Same as class 1.             |



## ELECTRIC CABIN FIXTURES

WITH STANDARD SCREW SOCKETS  
FOR 6-12-32 OR 110 VOLTS

### Round Base Pattern

WITH PUSH BUTTON SWITCH—SPUN BRASS



Fig. 308

| Diam. Base Inches   | Drop less Lamp Inches | Projection less Lamp Inches | Weight Ounces |
|---------------------|-----------------------|-----------------------------|---------------|
| 2 1/2               | 2 1/2                 | 3                           | 6             |
| Polished Brass Each | Nickel Plated Each    | Chromium Plated Each        |               |
| \$1.75              | \$2.00                | \$2.75                      |               |

### Oval Base Pattern

WITH PUSH BUTTON SWITCH—CAST BRONZE

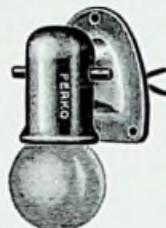


Fig. 516

| Size Base Inches     | Drop less Lamp Inches | Projection less Lamp Inches | Weight Ounces |
|----------------------|-----------------------|-----------------------------|---------------|
| 2 3/4 x 2 3/8        | 2 1/2                 | 2 3/8                       | 8             |
| Polished Bronze Each | Nickel Plated Each    | Chromium Plated Each        |               |
| \$2.50               | \$2.75                | \$3.75                      |               |

### Square Base Pattern

WITH TOGGLE SWITCH—CAST BRONZE



Fig. 450

| Size Base Inches | Drop less Lamp Inches | Projection less Lamp Inches | Weight Ounces        |
|------------------|-----------------------|-----------------------------|----------------------|
| 2x2              | 2                     | 2 3/8                       | 12                   |
|                  | Polished Bronze Each  | Nickel Plated Each          | Chromium Plated Each |
| With Switch      | \$2.50                | \$2.75                      | \$3.50               |
| Without Switch   | 2.25                  | 2.50                        | 3.25                 |

### Upright Pattern

WITH TOGGLE SWITCH—CAST BRONZE

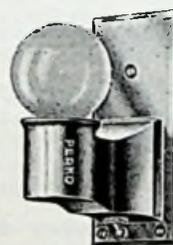


Fig. 304

| Polished Bronze Each | Nickel Plated Each | Chromium Plated Each | Size Plate Inches | Projection less Lamp Inches |
|----------------------|--------------------|----------------------|-------------------|-----------------------------|
| \$3.50               | \$4.00             | \$4.50               | 4 1/2 x 2 3/8     | 2 3/8                       |

Without switch deduct \$0.25 each.

### Square Base Pattern

WITH PUSH BUTTON SWITCH—CAST BRONZE



Fig. 689

| Size Base Inches     | Drop Less Lamp Inches | Projection Less Lamp Inches | Weight Pounds |
|----------------------|-----------------------|-----------------------------|---------------|
| 2x2                  | 2 1/4                 | 2 3/4                       | 3/4           |
| Polished Bronze Each | Nickel Plated Each    | Chromium Plated Each        |               |
| \$2.50               | \$2.75                | \$3.50                      |               |

### Porcelain Cabin Fixture

WITH STANDARD SCREW SOCKET  
NO SWITCH



Fig. 191

| Drop Less lamp Inches | Projection Less lamp Inches | Price Each |
|-----------------------|-----------------------------|------------|
| 1 5/8                 | 1 1/8                       | \$ .60     |

PRICES ON THIS PAGE DO NOT INCLUDE BULBS. WHEN ORDERING BULBS, SPECIFY VOLTAGE AND CANDLEPOWER, FROSTED OR CLEAR.

## Junior Fixtures

WITH DOUBLE CONTACT SOCKET  
TOGGLE SWITCH—CAST BRONZE



Fig. 605

| Polished<br>Bronze<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each | Size<br>Base<br>Inches | Drop<br>less<br>lamp<br>Inches | Projection<br>less<br>lamp<br>Inches |
|----------------------------|--------------------------|----------------------------|------------------------|--------------------------------|--------------------------------------|
| \$2.50                     | \$2.75                   | \$3.50                     | 1 3/4 x 1 3/4          | 2                              | 2                                    |

WITH OUTLET IN TOP OR BACK  
DOUBLE CONTACT SOCKET  
TOGGLE SWITCH—CAST BRONZE



Fig. 592

| Polished<br>Bronze<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each | Size<br>Base<br>Inches | Drop<br>less<br>lamp<br>Inches | Projection<br>less<br>lamp<br>Inches |
|----------------------------|--------------------------|----------------------------|------------------------|--------------------------------|--------------------------------------|
| \$2.50                     | \$2.75                   | \$3.50                     | 2 x 2 7/8              | 3 1/8                          | 2                                    |

## Double Cabin Fixture

CAST BRONZE—STANDARD SCREW SOCKETS

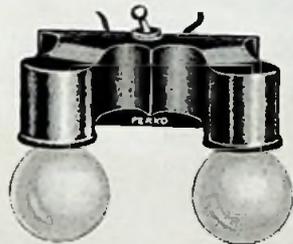


Fig. 452

Size base, 2 x 4 1/2 inches  
Width (less lamps), 5 5/8 in.  
Drop (less lamps), 2 inches  
Extends from wall 2 5/8 in.  
Weight, 1 1/2 pounds

|                    | Polished<br>Bronze<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each |
|--------------------|----------------------------|--------------------------|----------------------------|
| With Toggle Switch | \$6.50                     | \$7.25                   | \$8.50                     |

## Double Ceiling Fixture

CAST BRONZE—STANDARD SCREW SOCKETS



Fig. 451

Base, 2 x 3 1/2 inches  
Extends } 2 5/8 in.  
from wall }  
Weight, 1 pound

|                    | Polished<br>Bronze<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each |
|--------------------|----------------------------|--------------------------|----------------------------|
| With Toggle Switch | \$5.00                     | \$5.50                   | \$6.50                     |

## Indirect Lighting Fixtures

CAST BRONZE  
WITH STANDARD SCREW SOCKET



Fig. 847

A truly handsome fixture giving the modern indirect non glare lighting effect, can also be used in the reverse position as a berth light, takes up small space yet roomy enough to accommodate a 50 Watt bulb.

| Polished<br>Bronze<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each | Size<br>Base<br>Inches | Extends<br>from Wall<br>Inches |
|----------------------------|--------------------------|----------------------------|------------------------|--------------------------------|
| \$4.00                     | \$4.50                   | \$5.50                     | 5 x 6                  | 3                              |

WITH DOUBLE CONTACT SOCKET  
CAST BRONZE



Fig. 848

Same type as Fig. 847 above, but of a smaller size for small boats using low voltage double contact sockets, will accommodate up to a 50 candlepower S-11 bulb.

| Polished<br>Bronze<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each | Size<br>Base<br>Inches | Extends<br>from Wall<br>Inches |
|----------------------------|--------------------------|----------------------------|------------------------|--------------------------------|
| \$3.50                     | \$4.00                   | \$5.00                     | 4 1/2 x 4              | 2                              |

## Berth or Pullman Light

WITH DOUBLE CONTACT OR STANDARD  
SCREW SOCKET  
TOGGLE SWITCH—CAST BRONZE

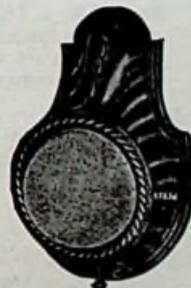


Fig. 416

| Polished<br>Bronze<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each | Length<br>Inches | Width<br>Inches |
|----------------------------|--------------------------|----------------------------|------------------|-----------------|
| \$8.50                     | \$9.50                   | \$14.00                    | 6                | 4               |

A special bulb with standard screw base for this light, see Fig. 8 on bulb page.

PRICES ON THIS PAGE DO NOT INCLUDE BULBS. WHEN ORDERING BULBS, SPECIFY VOLT-AGE AND CANDLEPOWER, FROSTED OR CLEAR.

### Holophane Cabin Fixture

WROUGHT BRASS—DOUBLE CONTACT SOCKET

For any voltage from 6 to 120. Complete with holophane glass globe and throw switch.



Fig. 81

Diameter base, 2½ inches  
Drop, 4¾ inches  
Extends from wall 4¾ inches  
Diameter globe, 3 inches  
Weight, 8 ounces

With Throw Switch

| Polished Brass Each | Nickel Plated Each | Chromium Plated Each |
|---------------------|--------------------|----------------------|
| \$3.00              | \$3.50             | \$4.00               |

### Holophane Cabin Fixture

WROUGHT BRASS—DOUBLE CONTACT SOCKET

For any voltage from 6 to 120. Complete with holophane glass shade, and throw switch.



Fig. 83

Diameter base, 2½ inches  
Drop, 4¾ inches  
Extends from wall 4¾ inches  
Weight, 8 ounces

With Throw Switch

| Polished Brass Each | Nickel Plated Each | Chromium Plated Each |
|---------------------|--------------------|----------------------|
| \$2.75              | \$3.25             | \$3.75               |

### Holophane Cabin Fixtures

CAST BRONZE—DOUBLE CONTACT SOCKET

FIXTURE WITH OPEN SHADE

Complete with toggle switch. Wired for voltage from 6 to 120.



Fig. 553

Base, 1¾ x 1¾ inches  
Drop, 3½ inches  
Extends from wall 4¾ inches  
Weight, 9 ounces

| Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |
|----------------------|--------------------|----------------------|
| \$3.25               | \$3.75             | \$4.75               |

FIXTURE WITH GLOBE

Base, 1¾ x 1¾ inches  
Drop, 4½ inches  
Extends from wall 3½ inches  
Weight, 10 ounces



Fig. 554

| Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |
|----------------------|--------------------|----------------------|
| \$3.50               | \$4.00             | \$5.00               |

Bulbs are not included with above fixtures. When ordering bulbs, specify voltage, candle power, frosted or clear.

### Dome Lights

CAST BRONZE

With improved toggle switch and nickel plated reflector. Globe held in place by threaded collar and protected from breakage by two rubber gaskets.

Nos. 1, 3 and 5 fitted with double contact socket. Nos. 2, 4 and 6 fitted with standard screw socket.

WITH DEEP HOLOPHANE GLOBE

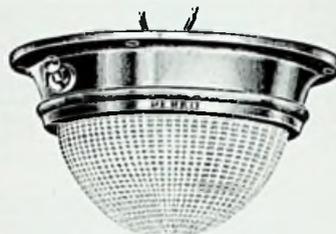


Fig. 454

| No. | Diam. Base Inches | Depth Inches | Diam. Globe Inches | Weight Lbs. |
|-----|-------------------|--------------|--------------------|-------------|
| 1   | 5                 | 3            | 4                  | 2½          |
| 2   | 8                 | 4¾           | 6                  | 4½          |

| No. | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |
|-----|----------------------|--------------------|----------------------|
| 1   | \$ 6.50              | \$ 7.00            | \$ 8.00              |
| 2   | 10.00                | 10.75              | 12.00                |

WITH SHALLOW HOLOPHANE GLOBE



Fig. 555

| No. | Diam. Base Inches | Depth Inches | Diam. Globe Inches | Weight Lbs. |
|-----|-------------------|--------------|--------------------|-------------|
| 3   | 5                 | 1¾           | 4                  | 2¾          |
| 4   | 8                 | 2¾           | 6                  | 4¾          |

| No. | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |
|-----|----------------------|--------------------|----------------------|
| 3   | \$ 6.50              | \$ 7.00            | \$ 8.00              |
| 4   | 10.00                | 10.75              | 12.00                |

WITH SHALLOW FROSTED GLOBE



Fig. 460

| No. | Diam. Base Inches | Depth Inches | Diam. Globe Inches | Weight Lbs. |
|-----|-------------------|--------------|--------------------|-------------|
| 5   | 5                 | 1¾           | 4                  | 2           |
| 6   | 8                 | 2¾           | 6                  | 4           |

| No. | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |
|-----|----------------------|--------------------|----------------------|
| 5   | \$ 6.50              | \$ 7.00            | \$ 8.00              |
| 6   | 10.00                | 10.75              | 12.00                |

## DOME LIGHTS

WROUGHT BRASS—IMPROVED—DOUBLE CONTACT SOCKETS

These are made of the highest grade brass obtainable. Reflectors are heavily nickel plated, furnished with improved throw or toggle switches, all wired ready for installation.

### With Holophane Globes

WITH THROW SWITCH



Fig. 387

| Trade Size Inches | Diam. Glass Inches | Diam. Base Inches | Depth Overall Inches |
|-------------------|--------------------|-------------------|----------------------|
| 3                 | 2 3/4              | 4 1/8             | 1 1/8                |
| 4                 | 3 3/4              | 5 3/8             | 1 1/8                |
| 5                 | 4 3/4              | 6 7/8             | 2 3/8                |
| 6                 | 5 3/4              | 8                 | 2 3/8                |

WITH TOGGLE SWITCH



Fig. 294

| Trade Size Inches | With Throw Switch (Fig. 387) |                    |                      | Trade Size Inches | With Toggle Switch (Fig. 294) |                    |                      |
|-------------------|------------------------------|--------------------|----------------------|-------------------|-------------------------------|--------------------|----------------------|
|                   | Polished Brass Each          | Nickel Plated Each | Chromium Plated Each |                   | Polished Brass Each           | Nickel Plated Each | Chromium Plated Each |
| 3                 | \$2.00                       | \$2.25             | \$3.50               | 3                 | \$2.60                        | \$2.85             | \$4.10               |
| 4                 | 2.50                         | 2.75               | 4.00                 | 4                 | 3.10                          | 3.35               | 4.60                 |
| 5                 | 3.00                         | 3.25               | 4.50                 | 5                 | 3.60                          | 3.85               | 5.10                 |
| 6                 | 4.00                         | 4.25               | 5.50                 | 6                 | 4.60                          | 4.85               | 6.10                 |

### With Frosted Globes

WITH THROW SWITCH



Fig. 295

| Trade Size Inches | Diam. Glass Inches | Diam. Base Inches | Depth Overall Inches |
|-------------------|--------------------|-------------------|----------------------|
| 3                 | 2 3/4              | 4 1/8             | 1 1/8                |
| 4                 | 3 3/4              | 5 3/8             | 1 1/8                |
| 5                 | 4 3/4              | 6 7/8             | 1 1/8                |
| 6                 | 5 3/4              | 8                 | 2 3/8                |

WITH TOGGLE SWITCH

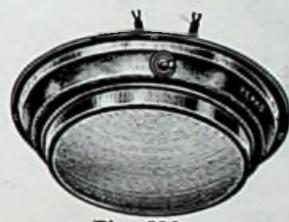


Fig. 296

| Trade Size Inches | With Throw Switch (Fig. 295) |                    |                      | Trade Size Inches | With Toggle Switch (Fig. 296) |                    |                      |
|-------------------|------------------------------|--------------------|----------------------|-------------------|-------------------------------|--------------------|----------------------|
|                   | Polished Brass Each          | Nickel Plated Each | Chromium Plated Each |                   | Polished Brass Each           | Nickel Plated Each | Chromium Plated Each |
| 3                 | \$2.00                       | \$2.25             | \$3.50               | 3                 | \$2.60                        | \$2.85             | \$4.10               |
| 4                 | 2.50                         | 2.75               | 4.00                 | 4                 | 3.10                          | 3.35               | 4.60                 |
| 5                 | 3.00                         | 3.25               | 4.50                 | 5                 | 3.60                          | 3.85               | 5.10                 |
| 6                 | 4.00                         | 4.25               | 5.50                 | 6                 | 4.60                          | 4.85               | 6.10                 |

### With Opal Globes

WITH TOGGLE SWITCH

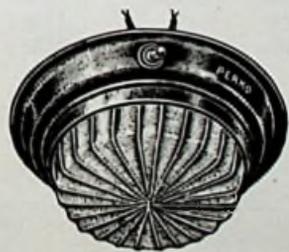


Fig. 385

| No. | Diam. Base Inches | Diam. Globe Inches | Depth Inches | Weight Lbs. | With Double Contact Socket |                     |                    |                      |
|-----|-------------------|--------------------|--------------|-------------|----------------------------|---------------------|--------------------|----------------------|
|     |                   |                    |              |             | No.                        | Polished Brass Each | Nickel Plated Each | Chromium Plated Each |
| 7   | 6                 | 4 1/4              | 2 1/4        | 7/8         | 7                          | \$3.25              | \$3.50             | \$4.75               |
| 8   | 7                 | 5 1/2              | 2 3/4        | 1 1/8       | 8                          | 4.25                | 4.50               | 5.75                 |
| 9   | 7                 | 5 1/2              | 2 3/4        | 1 1/8       | With Standard Screw Socket |                     |                    |                      |
|     |                   |                    |              |             | No.                        | Polished Brass Each | Nickel Plated Each | Chromium Plated Each |
|     |                   |                    |              |             | 9                          | \$4.50              | \$4.75             | \$6.00               |

ALL OF THE ABOVE DOME LIGHTS HAVE FLAT BACKS WHICH FIT FLUSH WITH CEILING TRIM. IT IS NOT NECESSARY TO MAKE RECESS WHEN INSTALLING.

PRICES ON THIS PAGE DO NOT INCLUDE BULBS. WHEN ORDERING BULBS SPECIFY VOLTAGE AND CANDLEPOWER.



## The New "Perko" Marine Searchlights

LOW VOLTAGE—6-8, 12-16, 32, AND 110 VOLTS—HIGH POWER

**BODIES**—are constructed of heavy wrought brass; stands, yokes, and control mechanism are all cast bronze.  
**REFLECTORS**—a glass mirror reflector, which projects a highly concentrated beam of light a greater distance than any other projector of its class.

**FOCUSING DEVICE**—of patented design, containing no wires to twist or break; very easy to control.

**PILOT HOUSE CONTROLS**—are of the wheel or lever type, both having their distinct advantages.

**WIRING**—enclosed in flexible metal hose, fully protected from weather.

**SOCKETS AND BULBS**—all sizes of searchlights are furnished with standard screw sockets. Bulbs furnished as standard equipment in various voltages are as follows—6-8 volts, 18 amps.; 12-16 volts, 18 amps.; 32 volts, 8 amps; 120 volts, 250 watt. Can also furnish 120 volts, 400 or 500 watt bulbs for small additional cost.

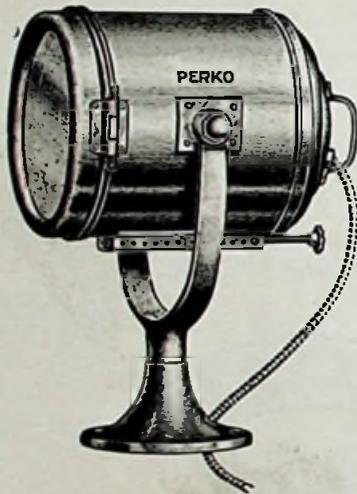


Fig. 480

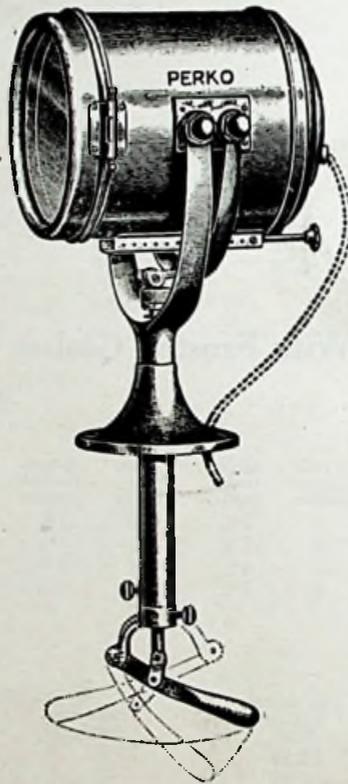


Fig. 297

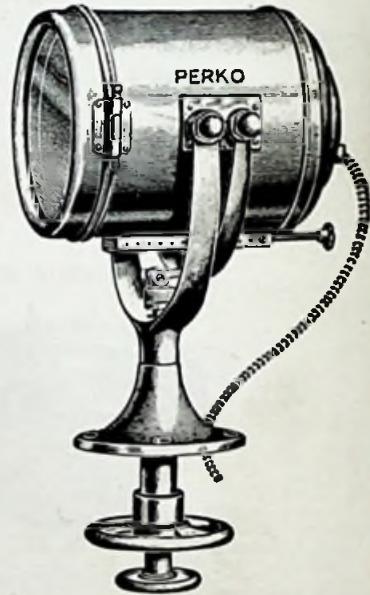


Fig. 529

### NEW SIZES

| Size Inches | Diameter Reflector Inches | Range          | Beam Candle Power | Length of Body Inches | Clearance of Glass in Door Inches | Height Overall Cabin Control Inches | Height Overall Deck Type Inches | Net Weight Cabin Control | Diameter of Base Inches |
|-------------|---------------------------|----------------|-------------------|-----------------------|-----------------------------------|-------------------------------------|---------------------------------|--------------------------|-------------------------|
| 8           | 8                         | up to ¼ mile   | 350,000           | 12¾                   | 7¾                                | 24                                  | 18                              | 31 lbs.                  | 6¾                      |
| 10          | 10                        | up to 1 mile   | 590,000           | 14¾                   | 9¾                                | 28                                  | 22                              | 36 lbs.                  | 6¾                      |
| 12          | 12                        | up to 1½ miles | 700,000           | 17                    | 11¾                               | 30                                  | 24                              | 48 lbs.                  | 8½                      |
| 14          | 14                        | up to 2 miles  | 850,000           | 19                    | 13½                               | 34                                  | 28                              | 56 lbs.                  | 8½                      |

### PRICE EACH

| Size Inches | Fig. 480       |                          |                            | Fig. 297       |                          |                            | Fig. 529       |                          |                            |
|-------------|----------------|--------------------------|----------------------------|----------------|--------------------------|----------------------------|----------------|--------------------------|----------------------------|
|             | Polished Brass | Extra for Nickel Plating | Extra for Chromium Plating | Polished Brass | Extra for Nickel Plating | Extra for Chromium Plating | Polished Brass | Extra for Nickel Plating | Extra for Chromium Plating |
| 8           | \$ 70.00       | \$4.00 net               | \$12.00 net                | \$ 85.00       | \$4.00 net               | \$12.00 net                | \$ 90.00       | \$4.00 net               | \$12.00 net                |
| 10          | 85.00          | 4.50 net                 | 14.00 net                  | 100.00         | 4.50 net                 | 14.00 net                  | 105.00         | 4.50 net                 | 14.00 net                  |
| 12          | 100.00         | 5.00 net                 | 15.00 net                  | 120.00         | 5.00 net                 | 15.00 net                  | 125.00         | 5.00 net                 | 15.00 net                  |
| 14          | 125.00         | 6.00 net                 | 20.00 net                  | 150.00         | 6.00 net                 | 20.00 net                  | 155.00         | 6.00 net                 | 20.00 net                  |

NOTE—SPECIFY VOLTAGE AND SIZE WHEN ORDERING. FOR INFORMATION ON EXTRA BULBS—REFER TO PAGE 41.



## "Perko" "Beam" Searchlights

The bodies of these searchlights are made of heavy brass. Control mechanism, stands and yokes are all cast bronze.

**REFLECTORS**—are heavily plated with chromium and highly polished. This plating gives a very high light efficiency and is more non-corrosive than most other plating processes in use on salt water.

**FRONT LENS**—is convex and mounted in brass frame, which is easily removed.

**WIRING**—is protected by flexible metal hose and waterproof insulation.

**PILOT HOUSE CONTROL**—is of the lever type, which is quick acting and easy to handle.

**BULBS**—are 6-8, 12-16 or 32 volt, double contact. Double contact electric sockets are standard equipment.

**THESE SEARCHLIGHTS WILL THROW A POWERFUL BEAM UP TO ½ MILE DISTANCE, DEPENDING ON WEATHER CONDITIONS.**

### Sunbeam

WITH PILOT HOUSE CONTROL

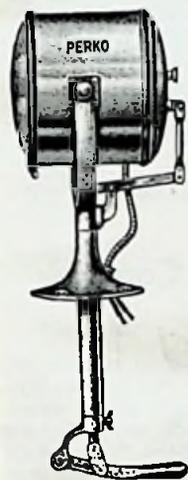


Fig. 306

| Size Inches | Diam. Reflector Inches | Height Overall Inches | Diam. Base Inches |
|-------------|------------------------|-----------------------|-------------------|
| 6           | 6                      | 21                    | 3½                |
| 8           | 8                      | 24                    | 5½                |
| 10          | 10                     | 27                    | 5½                |

| Size In. | Polished Brass Each | Nickel Plated Each | Chromium Plated Each |
|----------|---------------------|--------------------|----------------------|
| *6       | \$22.00             | \$25.00            | \$28.00              |
| 6        | 27.00               | 30.00              | 33.00                |
| 8        | 35.00               | 39.00              | 43.00                |
| 10       | 62.00               | 67.00              | 72.00                |

\* Indicates this searchlight with T handle control instead of lever control illustrated.

### Sunbeam

DECK TYPE

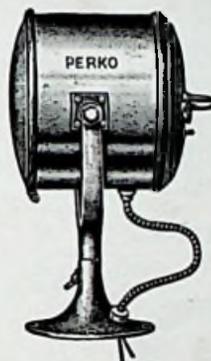


Fig. 305

| Size Inches | Diam. Reflector Inches | Height Overall Inches | Diam. Base Inches |
|-------------|------------------------|-----------------------|-------------------|
| 6           | 6                      | 11                    | 3½                |
| 8           | 8                      | 14                    | 5½                |
| 10          | 10                     | 17                    | 5½                |

| Size In. | Polished Brass Each | Nickel Plated Each | Chromium Plated Each |
|----------|---------------------|--------------------|----------------------|
| 6        | \$20.00             | \$23.00            | \$25.50              |
| 8        | 25.00               | 28.00              | 32.00                |
| 10       | 34.00               | 38.00              | 42.00                |

### Superbeam

DECK TYPE



Fig. 307

| Size Inches | Diam. Reflector Inches | Height Overall Inches | Diam. Base Inches |
|-------------|------------------------|-----------------------|-------------------|
| 8           | 7½                     | 12½                   | 3¾                |

| Size In. | Polished Brass Each | Nickel Plated Each | Chromium Plated Each |
|----------|---------------------|--------------------|----------------------|
| 8        | \$15.00             | \$18.00            | \$21.00              |

### Brightbeam

WITH PILOT HOUSE CONTROL



Fig. 310

| Size Inches | Diam. Reflector Inches | Height Overall Inches | Diam. Base Inches |
|-------------|------------------------|-----------------------|-------------------|
| 8           | 7½                     | 23                    | 3¾                |

| Size In. | Polished Brass Each | Nickel Plated Each | Chromium Plated Each |
|----------|---------------------|--------------------|----------------------|
| 8        | \$27.00             | \$31.00            | \$35.00              |

### Streamline Searchlight

FOR RUNABOUTS AND OUTBOARD MOTOR BOATS



Fig. 548

| Diam. Body Inches | Height Overall Inches | Size Base Inches |
|-------------------|-----------------------|------------------|
| 4¾                | 7½                    | 2½x5             |

| Polished Brass Each | Nickel Plated Each | Chromium Plated Each |
|---------------------|--------------------|----------------------|
| \$8.00              | \$9.50             | \$12.00              |

NEW SIZES — NEW PRICES

**Star Oil Compasses**  
WITH SAPPHIRE JEWEL BEARINGS

The result of many years of experience in magnetic compass manufacture. An inexpensive yet guaranteed accurate instrument that will pass the most rigid U. S. inspection, unequalled for use on dories, lifeboats and motor boats.

Furnished in open dial with polished bar magnet, and sapphire jewel bearing.

**IN MAHOGANY BOX**



Fig. 487

| Diam. of Dial Inches | Each    | Size of Box Inches | Weight Complete Pounds |
|----------------------|---------|--------------------|------------------------|
| 2                    | \$ 6.00 | 4 3/8              | 1 3/4                  |
| 2 1/2                | 8.50    | 5 3/8              | 2 1/4                  |
| 3                    | 10.50   | 6 1/4              | 3 1/2                  |
| 4                    | 16.50   | 7 1/4              | 4 1/4                  |
| 5                    | 21.50   | 8 1/2              | 6 1/2                  |

**IN POLISHED BRASS BOX**  
NON-MAGNETIC

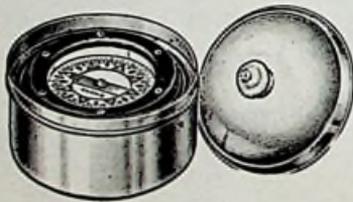


Fig. 356

| Diam. of Dial Inches | Each    | Diameter of Box Inches | Weight Complete Pounds |
|----------------------|---------|------------------------|------------------------|
| 2                    | \$ 6.50 | 4                      | 1 1/2                  |
| 2 1/2                | 9.00    | 4 5/8                  | 2                      |
| 3                    | 11.00   | 5 5/8                  | 3                      |
| 4                    | 17.50   | 6 1/2                  | 4                      |
| 5                    | 23.00   | 7 1/2                  | 6                      |

**IN POLISHED BRASS BOX**  
WITH GLASS COVER



Fig. 108

| Diam. of Dial Inches | Each    | Diameter of Box Inches | Weight Complete Pounds |
|----------------------|---------|------------------------|------------------------|
| 2                    | \$ 8.00 | 4                      | 1 1/2                  |
| 2 1/2                | 10.50   | 4 5/8                  | 2                      |
| 3                    | 13.00   | 5 5/8                  | 3                      |
| 4                    | 19.00   | 6 1/2                  | 4                      |
| 5                    | 24.50   | 7 1/2                  | 6                      |

**"Star" Spirit Compasses**  
WITH CENTRAL BUOYANCY DIAL  
REGULAR AND UNDERLIGHTED

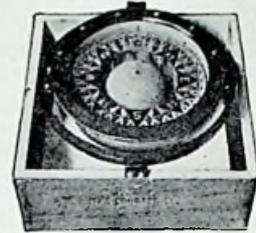


Fig. 987

Furnished with flat card and four magnet dial. This type of compass is specified and used exclusively by the U. S. Navy. A very high grade instrument second to none in quality and dependability.

For use on large motor boats, yachts and ocean going vessels.

| Diameter Card Inches | Regular Type Each | Underlighted Type Each |
|----------------------|-------------------|------------------------|
| 4                    | \$22.50           | \$36.00                |
| 5                    | 25.00             | 38.50                  |
| 6                    | 28.00             | 43.00                  |
| 7                    | 31.00             |                        |
| 8                    | 38.00             |                        |
| 9                    | 48.00             |                        |

Prices Above Do Not Include Box

**Underlighted Binnacle Compass**  
POLISHED BRASS

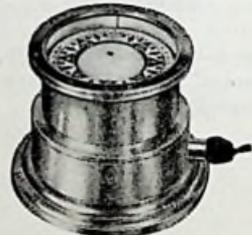


Fig. 988

A combination of compass and binnacle that is new. The usual gimbal ring is eliminated and the deep dipping dial illuminated from below results in a compact and neat compass that has proven popular on various types of small vessels.

| Diameter Card Inches | Each    | Height Inches | Diameter Base Inches |
|----------------------|---------|---------------|----------------------|
| 4                    | \$50.00 | 5             | 6 1/2                |
| 5                    | 55.00   | 6             | 7 1/2                |
| 6                    | 60.00   | 6 3/4         | 8 1/2                |

**Underlighted Binnacle Compass**  
WITH SPHERICAL DOME  
POLISHED BRASS

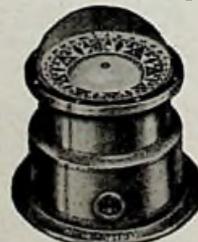


Fig. 989

A deluxe yacht and cruiser outfit to please a most exacting clientele. The spherical dome added to the patented compensator for correction of deviation with which this compass is furnished results in a practical instrument in keeping with the present day demand for modernism.

| Diam. Card Inches | Without Compensator Each | With Compensator Each | Height Inches | Diam. Base Inches |
|-------------------|--------------------------|-----------------------|---------------|-------------------|
| 4                 | \$ 80.00                 | \$100.00              | 6 1/2         | 6 1/2             |
| 5                 | 90.00                    | 110.00                | 7 1/2         | 7 1/2             |
| 6                 | 100.00                   | 120.00                | 8 1/2         | 8 1/2             |



## Skylight Binnacle

CAST BRONZE—FOR 4 OR 5 INCH COMPASS

Body is one solid casting with cast bronze fittings. All parts screwed together. Broken glasses can easily be replaced. Hexagon skylight head, with six glasses, including two marked with sighting lines for getting bearings. Complete with night hood and oil or electric lamp.

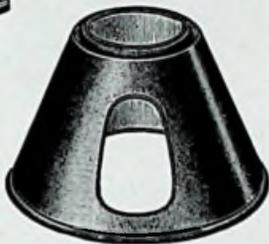
Electric Lamp      Oil Lamp



Fig. 530



1 Piece  
Night Hood  
White Inside



| Height Overall Inches | Diameter Base Inches |
|-----------------------|----------------------|
| 12                    | 9 3/4                |

| Polished Bronze Each |
|----------------------|
| \$37.00              |

| Nickel Plated Each |
|--------------------|
| \$41.00            |

| Distance Between Compass Supports Inches | Weight Pounds |
|--|---------------|
| 7 1/4                                    | 14 1/2        |

| Chromium Plated Each |
|----------------------|
| \$49.00              |

## Skylight Binnacle

SPUN BRASS

Same as Fig. 530 above but spun from extra heavy brass throughout. Complete with night hood and oil or electric lamp.



Fig. 534

| No. | For Size Compass Inches | Height Overall Inches | Diameter Base Inches | Distance Between Compass Supports Inches |
|-----|-------------------------|-----------------------|----------------------|--|
| 1   | 2 1/2 or 3              | 8 3/4                 | 7 1/4                | 5 1/4                                    |
| 2   | 4 or 5                  | 12                    | 9 3/8                | 7 1/4                                    |

| No. | Polished Brass Each | Nickel Plated Each | Chromium Plated Each |
|-----|---------------------|--------------------|----------------------|
| 1   | \$25.00             | \$28.50            | \$35.00              |
| 2   | 30.00               | 34.00              | 42.00                |

## Cruiser Binnacle

WROUGHT BRASS—ONE PIECE

Spun from heavy gauge brass, white enamel finish inside. Equipped with or without liquid compass. An electric lamp for night running which illuminates the proper portion of the compass but will not disturb the helmsman's vision in any way.



Fig. 412

| For Size Compass Inches | Height Overall Inches | Diam. Base Inches | Distance Between Compass Supports Inches | Weight Less Compass Lbs. |
|-------------------------|-----------------------|-------------------|--|--------------------------|
| 3                       | 6 1/2                 | 6 3/4             | 5 1/2                                    | 1                        |
| 4                       | 7 1/2                 | 9                 | 6 1/2                                    | 1 1/2                    |
| 5                       | 8 3/4                 | 10                | 7 1/2                                    | 2 1/2                    |

| Size Compass Inches | Polished Brass Each |              | Nickel Plated Each |              | Chromium Plated Each |              |
|---------------------|---------------------|--------------|--------------------|--------------|----------------------|--------------|
|                     | Without Compass     | With Compass | Without Compass    | With Compass | Without Compass      | With Compass |
| 3                   | \$12.50             | \$22.00      | \$14.00            | \$23.50      | \$16.50              | \$26.00      |
| 4                   | 14.00               | 29.00        | 16.00              | 31.00        | 19.00                | 34.00        |
| 5                   | 15.50               | 35.50        | 18.00              | 38.00        | 21.50                | 41.50        |

## Cruiser Binnacle

WROUGHT BRASS—TWO PIECE

When closed looks exactly like Fig. 412 above. Removable head allows easy access to compass. Furnished complete with electric fixture and lamp for illuminating compass at night. Head is held fast to base by bayonet catch which is invisible when closed.

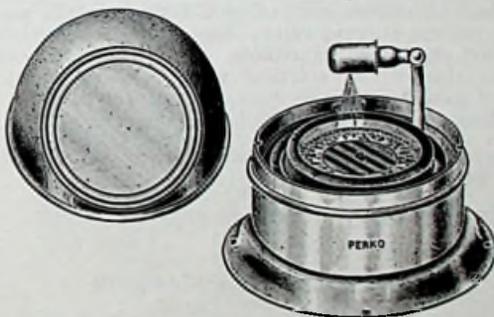


Fig. 401

| For Size Compass Inches | Height Overall Inches | Diam. Base Inches | Distance Between Compass Supports Inches | Weight Less Compass Pounds |
|-------------------------|-----------------------|-------------------|--|----------------------------|
| 3                       | 6 1/2                 | 6 3/4             | 5 1/2                                    | 1                          |
| 4                       | 7 1/2                 | 9                 | 6 1/2                                    | 1 1/2                      |
| 5                       | 8 3/4                 | 10                | 7 1/2                                    | 2 1/2                      |

| Size Compass Inches | Polished Brass Each |              | Nickel Plated Each |              | Chromium Plated Each |              |
|---------------------|---------------------|--------------|--------------------|--------------|----------------------|--------------|
|                     | Without Compass     | With Compass | Without Compass    | With Compass | Without Compass      | With Compass |
| 3                   | \$14.50             | \$24.00      | \$16.00            | \$25.50      | \$18.50              | \$28.00      |
| 4                   | 16.00               | 31.00        | 18.00              | 33.00        | 21.00                | 36.00        |
| 5                   | 17.50               | 37.50        | 20.00              | 40.00        | 23.50                | 43.50        |

PRICES ON FIGS. 530 AND 534 DO NOT INCLUDE COMPASS. FOR INFORMATION ON COMPASS REFER TO FIG. 487 AND FIG. 987.

## “Perko” Lighting Plant

AIR COOLED

6 OR 12 VOLT—200 WATTS

SINGLE CYLINDER—4 CYCLE ENGINE

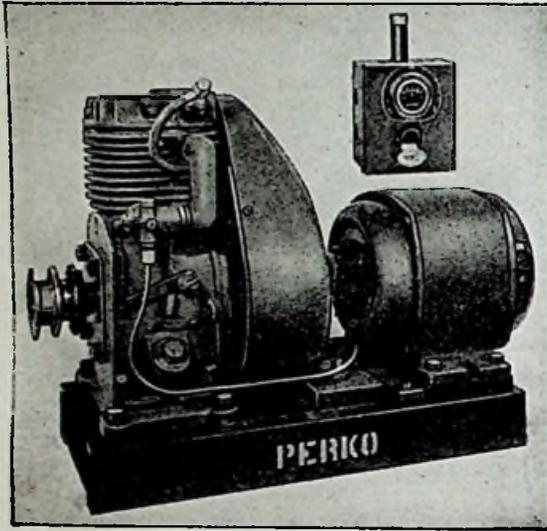


Fig. 1043

|                |                       |                       |                      |               |
|----------------|-----------------------|-----------------------|----------------------|---------------|
| Each           | Overall Length Inches | Overall Height Inches | Overall Width Inches | Weight Pounds |
| <b>\$75.00</b> | 17                    | 13                    | 8                    | 62            |

Price Does Not Include Batteries

A fine, husky generator designed primarily for marine use.

A separate control panel—installed on engine or where convenient, containing starting switch, ammeter and reverse current relay. Two unit construction with welded steel base adjustable output—overload capacity Rope starter for starting with dead batteries. One quart gasoline tank in base, enough for about 4 hours running.

Capacity—6 volts, 200 watts at 2,400 R.P.M.; 12 volts, 200 watts at 1,800 R.P.M.

Charging rate controlled by engine governor.

### ENGINE SPECIFICATIONS

“Lauson Smoothflo” half horsepower—one piece counterbalanced crank shaft—Eiseman high tension magneto ignition independent of batteries—lubricating oil in base—forced air cooling by covered flywheel fan.

### GENERATOR SPECIFICATIONS

Specially designed high efficiency marine type generator—semi-enclosed drip proof construction—compound winding for starting engine when used with batteries or can be used as a compound generator without batteries—generator is driven from flywheel end of engine by special flexible coupling.

With Float Feed Carburetor, add \$4.00 extra. A necessity for marine service.

## New “Little Joe” Lighting Plant

A DELCO-LIGHT PRODUCT

4 CYCLE—AIR COOLED—PORTABLE

6 OR 12 VOLT—150 WATTS

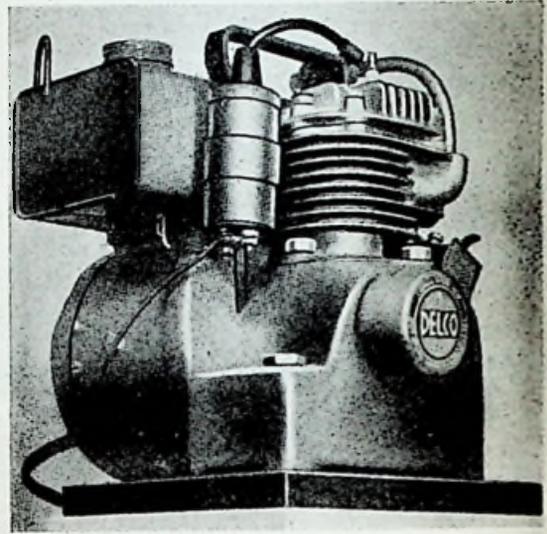


Fig. 566

The “Little Joe” is entirely new to the lighting world. A new product and addition to the large and dependable line of Delco-Light products. A General Motors Corp. value. Remarkable for its size, wattage output, portability, and of course low price. Will run for 8 hours on one tank filling. Self starting, by a manually operated starting switch. A pulley at generator end for a rope type starter if the battery should ever become fully discharged.

|                |               |               |              |                      |               |
|----------------|---------------|---------------|--------------|----------------------|---------------|
| Each           | Height Inches | Length Inches | Width Inches | Tank Capacity Quarts | Weight Pounds |
| <b>\$57.50</b> | 12            | 12            | 8½           | 2                    | 44            |

Price does not include Battery

### ENGINE SPECIFICATIONS

Single cylinder—4 cycle—L head—Air cooled by forced draft—Fins cast on cylinder and head—Bore 1½-inch—Stroke 1½-inch—Speed 2250 R.P.M.—Battery ignition—Oil capacity 1 pint.

### GENERATOR SPECIFICATIONS

Voltage 6 or 12—Capacity 150 watts—Shunt wound for battery charging—Battery ignition operated, from battery being charged—Reaction type brush holders—Any good automobile type battery of same voltage as the plant.

Price Complete Except Battery

**\$57.50**

## "Perko" Lighting Plant

WATER COOLED

12 OR 32 VOLT—17 AMPERE CAPACITY  
SINGLE CYLINDER—4 CYCLE ENGINE

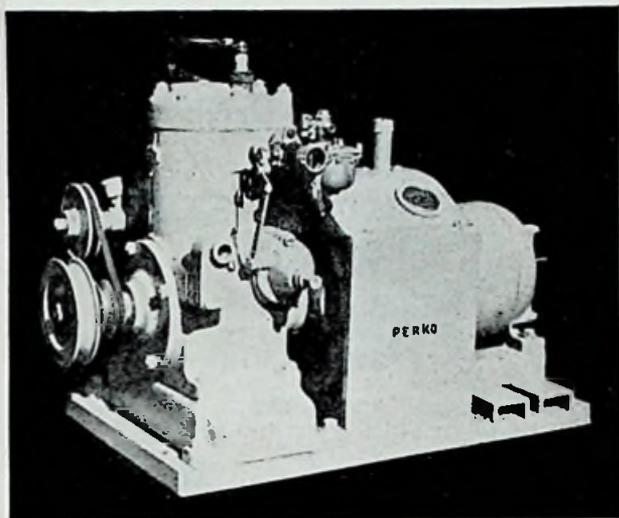


Fig. 567

The finest electric generating plant that can be made for its size and capacity.

Especially valuable where continuous operation is required in any enclosed place where the heat from an air cooled engine is dangerous or uncomfortable.

Generator driven by special flexible coupling from fly-wheel side of the engine.

The engine flywheel and coupling are enclosed in an aluminum box which also contains all wiring and reverse current relay.

Ammeter and starting switch are located on this housing and the stop button and output control are located so that all controls are accessible from one side.

| No. | Each     | Volts | Watts | Overall Height Inches | Overall Length Inches | Overall Width Inches |
|-----|----------|-------|-------|-----------------------|-----------------------|----------------------|
| 1   | \$215.00 | 12    | 260   | 17½                   | 21¼                   | 12¼                  |
| 2   | 215.00   | 32    | 700   | 17½                   | 21¼                   | 12¼                  |

Prices do not include Batteries

WEIGHT 150 POUNDS

ENGINE SPECIFICATIONS

Single cylinder—4 cycle—Water cooled—Float feed carburetor—High tension magneto—Speed regulation and output adjustment by mechanical governor—Hand starting pulley for starting when battery is fully discharged—Cooling by water circulated by an all bronze gear pump.

GENERATOR SPECIFICATIONS

Direct coupled ball bearing type—Special marine type—Compound wound—Air cooled drip-proof construction—Large commutator.

This Plant can be furnished in the full automatic type so arranged so that it will start itself when the load reaches a predetermined point and will stop again when the load drops below this point—Price on Application.

## Remote Control Panel

WITH STARTING RELAY

FOR ALL SELF STARTING LIGHTING PLANTS



Fig. 658

When the boat is equipped with this control the generating plant can be started and run just the same as the main engine. It being only necessary to enter the generator compartment to supply oil and to make routine inspection and adjustments.

Consists of a bakelite panel on a galvanized box which consists of a starting relay, choke control, start and stop switches and ammeter.

Can be mounted flush or on the surface of the dash or bulkhead.

| Each    | Size Panel Inches | Size Box Behind Panel Inches |
|---------|-------------------|------------------------------|
| \$14.00 | 5 x 5             | 4 1/8 x 4 1/8 x 1 3/4        |

## 12 Volt Generator

TO BE DRIVEN FROM MAIN MOTOR BY V BELT AND PULLEY



Fig. 659

This outfit now consists of a 12 volt air cooled generator with V pulley, ammeter in panel, cutout and terminals all mounted on a base.

Capacity about 14 amperes at 1500 R.P.M. A necessity on the boat where the lighting or starting load is so great that the generator on the engine is not sufficient to keep the batteries charged.

| Each    | Overall Length Inches | Overall Width Inches | Size Base Inches | Diam. Pulley Inches |
|---------|-----------------------|----------------------|------------------|---------------------|
| \$45.00 | 10                    | 7 3/4                | 6 1/2 x 4        | 4                   |

**"PERKO" BRONZE GEAR TYPE PUMPS**

NON CORROSIVE BRONZE THROUGHOUT WITH TOBIN BRONZE SHAFTS AND GEARS

The entire interior, including bearings, is tool machined, insuring perfect alignment and absolute joints, blank bearing ends are solid (not soldered), all bearings are fully lubricated by brass grease cups, drive shaft is in perfect alignment with the pump body. Pipe connections are Briggs standard pipe ta

**Single Lower Drive Shaft**

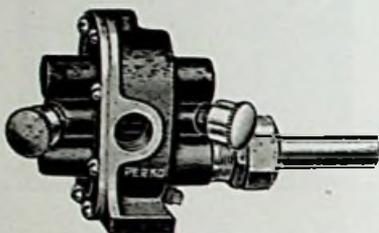


Fig. 684

| Pump No. | Price Each Complete | Size Pipe Connection Inches | Size Drive Shaft Inches | Approximate Weight Each Pounds |
|----------|---------------------|-----------------------------|-------------------------|--------------------------------|
| 2        | \$ 9.00             | 1/4                         | 1/2                     | 3 3/4                          |
| 3        | 10.50               | 3/8                         | 5/8                     | 5 1/2                          |
| 4        | 11.25               | 1/2                         | 3/4                     | 6                              |
| 7        | 13.75               | 3/4                         | 7/8                     | 9                              |
| 9        | 14.85               | 1                           | 1                       | 9 1/2                          |

**Single Upper Drive Shaft**

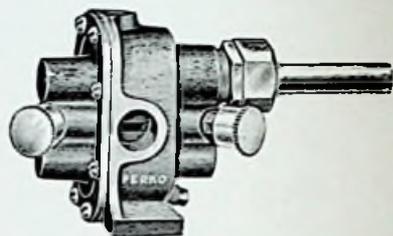


Fig. 682

| Pump No. | Price Each Complete | Size Pipe Connection Inches | Size Drive Shaft Inches | Approximate Weight Each Pounds |
|----------|---------------------|-----------------------------|-------------------------|--------------------------------|
| 2        | \$ 9.00             | 1/4                         | 1/2                     | 3 3/4                          |
| 3        | 10.50               | 3/8                         | 5/8                     | 5 1/2                          |
| 4        | 11.25               | 1/2                         | 3/4                     | 6                              |
| 7        | 13.75               | 3/4                         | 7/8                     | 9                              |
| 9        | 14.85               | 1                           | 1                       | 9 1/2                          |

**Double Lower Drive Shaft**

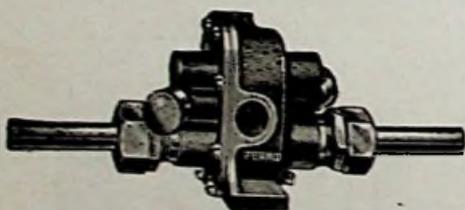


Fig. 685

| Pump No. | Price Each Complete | Size Pipe Connection Inches | Size Drive Shaft Inches | Approximate Weight Each Pounds |
|----------|---------------------|-----------------------------|-------------------------|--------------------------------|
| 2        | \$10.20             | 1/4                         | 1/2                     | 4 1/2                          |
| 3        | 11.25               | 3/8                         | 5/8                     | 6 1/4                          |
| 4        | 12.40               | 1/2                         | 3/4                     | 6 3/4                          |
| 7        | 14.85               | 3/4                         | 7/8                     | 9 1/2                          |
| 9        | 15.95               | 1                           | 1                       | 9 3/4                          |

**Double Upper Drive Shaft**

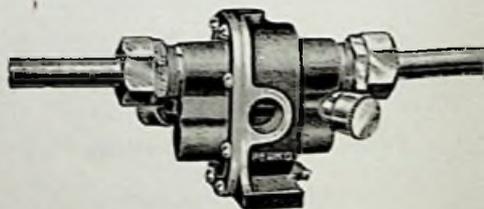
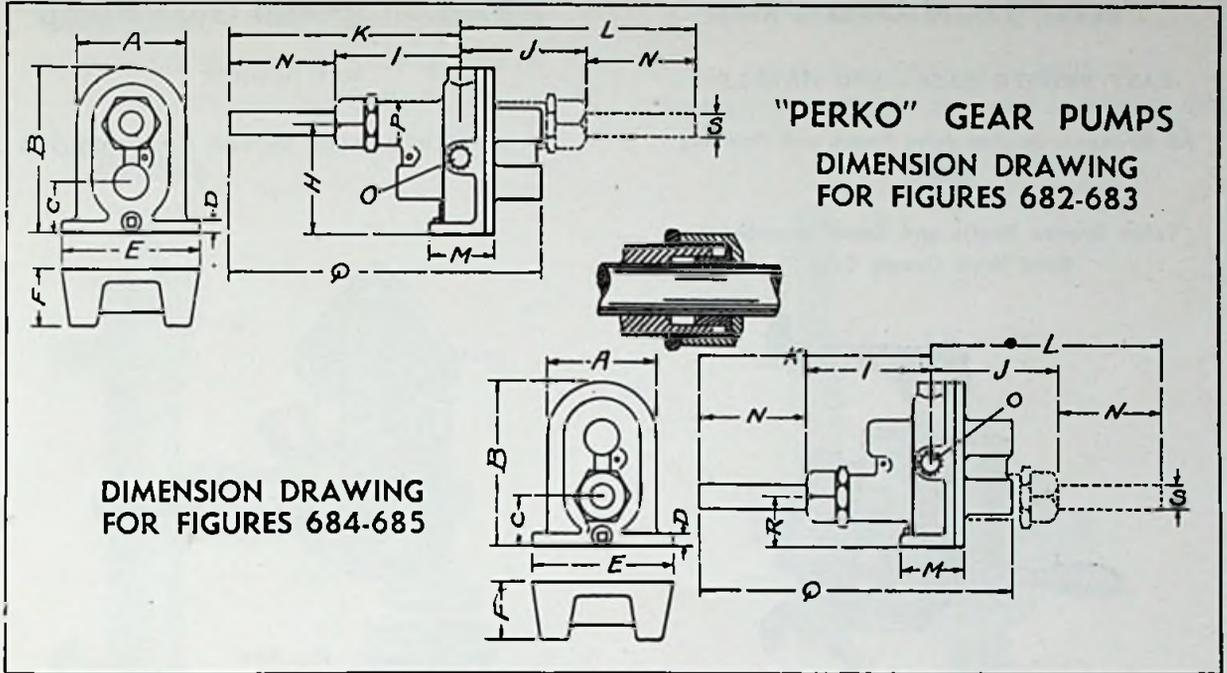


Fig. 683

| Pump No. | Price Each Complete | Size Pipe Connection Inches | Size Drive Shaft Inches | Approximate Weight Each Pounds |
|----------|---------------------|-----------------------------|-------------------------|--------------------------------|
| 2        | \$10.20             | 1/4                         | 1/2                     | 4 1/2                          |
| 3        | 11.25               | 3/8                         | 5/8                     | 6 1/4                          |
| 4        | 12.40               | 1/2                         | 3/4                     | 6 3/4                          |
| 7        | 14.85               | 3/4                         | 7/8                     | 9 1/2                          |
| 9        | 15.95               | 1                           | 1                       | 9 3/4                          |

For special lengths of shafts add .60c each, and then .55c for every six inches or fraction thereof beyond standard length.

NOTE—Don't fail to state figure number and pump number desired.



**DIMENSION TABLE FOR "PERKO" GEAR PUMPS**

| Pump N. | A  | B  | C  | D | E  | F  | H  | I* | J* | K* | L* | M  | N  | O† | P  | Q  | R  | S |
|---------|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| 1½      | 1½ | 2¾ | 1½ | ¾ | 2¼ | 1½ | 1¾ | 2½ | 2½ | 4¾ | 4¾ | 1½ | 2½ | ½  | ¾  | 6½ | 5½ | ¾ |
| 2       | 2¾ | 3½ | 1¾ | ¾ | 2¾ | 1¾ | 2¾ | 2¾ | 2¾ | 4¾ | 4¾ | 1½ | 2½ | ¼  | 1  | 6½ | 1½ | ½ |
| 3       | 2¾ | 4  | 1¾ | ¼ | 3½ | 1¾ | 2¾ | 2¾ | 2¾ | 5¾ | 5¾ | 1½ | 2½ | ¾  | 1½ | 6½ | 1½ | ¾ |
| 4       | 2¾ | 4  | 1¾ | ¼ | 3½ | 1¾ | 2¾ | 3¾ | 3¾ | 5¾ | 5¾ | 1¾ | 2½ | ½  | 1½ | 7½ | 1½ | ¾ |
| 7       | 3¼ | 5¾ | 2¾ | ¼ | 4  | 1½ | 3¾ | 3¾ | 3¾ | 5¾ | 5¾ | 1¾ | 2½ | ¾  | 1½ | 7½ | 1¾ | ¾ |
| 9       | 3¼ | 5¾ | 2¾ | ¼ | 4  | 1¾ | 3¾ | 3¾ | 3¾ | 5¾ | 5¾ | 1¾ | 2½ | 1  | 1½ | 7½ | 1¾ | ¾ |

Dimensions in inches—Standard Pumps. \*From center line of gear. †Briggs standard pipe tap.

**CAPACITY TABLE FOR "PERKO" GEAR PUMPS**

**1200 REVOLUTIONS PER MINUTE**

**1800 REVOLUTIONS PER MINUTE**

**PRESSURE**

**PRESSURE**

| Pump No. | 0 lb. |    | 20 lb. |    | 40 lb. |    | 60 lb. |    | 80 lb. |    |
|----------|-------|----|--------|----|--------|----|--------|----|--------|----|
|          | GPM   | HP | GPM    | HP | GPM    | HP | GPM    | HP | GPM    | HP |
| 1½       | 1.57  | ½  | 1.43   | ½  | 1.35   | ½  | 1.3    | ½  | 1.2    | ½  |
| 2        | 3.    | ¾  | 2.62   | ¾  | 2.25   | ¾  | 1.8    | ¾  | 1.45   | ¾  |
| 3        | 5.    | 1  | 4.25   | ¾  | 3.7    | ¾  | 3.2    | ¾  | 2.8    | ¾  |
| 4        | 7.5   | ¾  | 6.3    | ¾  | 5.4    | ¾  | 4.6    | ¾  | 3.8    | 1  |
| 7        | 13.5  | 1½ | 11.5   | 1½ | 9.9    | ¾  | 8.75   | 1  | 7.7    | 1½ |
| 9        | 17.   | 1½ | 15.5   | ¾  | 14.1   | 1½ | 12.7   | 1½ | 11.2   | 1½ |

| Pump No. | 0 lb. |    | 20 lb. |    | 40 lb. |     | 60 lb. |     | 80 lb. |     |
|----------|-------|----|--------|----|--------|-----|--------|-----|--------|-----|
|          | GPM   | HP | GPM    | HP | GPM    | HP  | GPM    | HP  | GPM    | HP  |
| 1½       | 2.3   | ½  | 2.2    | ½  | 2.15   | ½   | 2.1    | ¼   | 2.     | ¾   |
| 2        | 4.5   | ¾  | 4.2    | ¾  | 3.85   | ¾   | 3.45   | ¾   | 3.1    | ¾   |
| 3        | 7.5   | 1  | 6.75   | ¾  | 6.1    | ¾   | 5.6    | 1   | 5.25   | 1   |
| 4        | 11.   | ¾  | 10.    | ¾  | 9.     | ¾   | 8.2    | 1   | 7.3    | 1½  |
| 7        | 16.*  | 1½ | 15.*   | 1* | 13.3*  | 1*  | 12.*   | 1½* | 10.8*  | 1½* |
| 9        | 20.*  | 1½ | 18.75* | 1* | 17.7*  | 1½* | 16.5*  | 2*  | 15.3*  | 2*  |

\*At 1500 R.P.M.

Gallons per minute flow of clean water—63° F.—no pipe friction.

Motor recommended shown by H. P. indicated.

Head in feet = 2.3 x lbs. pressure.



## "Perko" Hand Gear Pump

CAST BRONZE CASE—AND HANDLE

All Bronze reduction drive Gears and Pumping Gears.

Tobin Bronze Shafts and Gears throughout.  
Solid Brass Grease Cups.

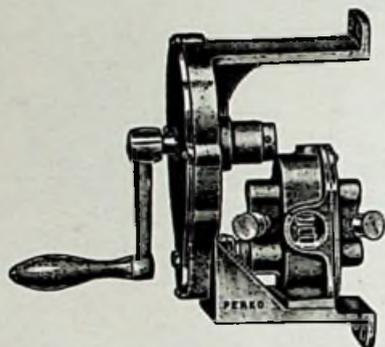


Fig. 686

Ideal for pumping bilge water out of boats where quick draining is required at very little labor. Also excellent for pumping fuel oil or any other liquid when the use of mechanical power is not practical or accessible.

This arrangement allows replacement of pump only, when necessary.

Absolutely free from leaks, and packing in gland can easily be renewed.

Can be mounted on wall, bulkhead, or bench.  
Handle is detachable.

## "Perko" Special Gear Pump

ALL BRONZE

FOR STAR MARINE MOTOR CONVERSIONS

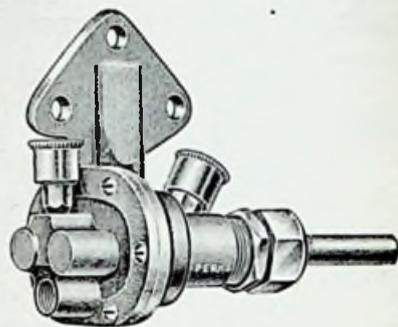


Fig. 804

This pump is designed primarily for Star and Gra motors, has a triangular bracket to fit the intake water manifold on the motor with water passage through the bracket.

Furnished complete with grease cups, tobin bronze gears and shafts, all bearings machined, all bearing ends are solid, not soldered.

| Size Pipe Connection Inches | Price Complete | Extreme Height Inches | Projection from Wall Inches | Weight Pounds | Price Each Complete | Size Pipe Connection Inches | Diameter Drive Shaft Inches | Weight Pounds |
|-----------------------------|----------------|-----------------------|-----------------------------|---------------|---------------------|-----------------------------|-----------------------------|---------------|
| 1                           | \$35.00        | 10 3/4                | 7 1/2                       | 24            | \$10.00             | 3/8                         | 1/2                         | 4             |

## "PERKO" BRONZE GEAR PUMP PARTS

| Pump No. | Size Pipe Con'c'n | Cover  | Screws | Spur Idle Gear | Spur Drive Gear | Body   | Drive Shaft | Metal Pack Gland | Lock Nut | Pack Nut | Idle Gear Shaft |
|----------|-------------------|--------|--------|----------------|-----------------|--------|-------------|------------------|----------|----------|-----------------|
| 1 1/2    | 1/8"              | \$1.50 | \$ .02 | \$ .95         | \$ .95          | \$2.50 | \$ .75      | \$ .35           | \$ .30   | \$ .38   | \$ .50          |
| 2        | 1/4"              | 1.60   | .02    | 1.00           | 1.00            | 2.70   | .75         | .55              | .30      | .54      | .50             |
| 3        | 3/8"              | 1.75   | .02    | 1.15           | 1.15            | 2.75   | .75         | .65              | .38      | .60      | .50             |
| 4        | 1/2"              | 2.10   | .02    | 1.45           | 1.45            | 3.25   | .91         | .65              | .38      | .60      | .70             |
| 7        | 3/4"              | 2.40   | .02    | 1.90           | 1.90            | 4.00   | .91         | .65              | .38      | .60      | .70             |
| 9        | 1"                | 3.25   | .02    | 2.20           | 2.20            | 4.80   | .91         | .65              | .38      | .60      | .70             |

## "Champion" Navy Bilge Pump

BRASS CYLINDER—CAST BRONZE PARTS  
EFFORTLESS OPERATION



Fig. 1016

Patent Pending



View of New Improved Plunger

## "Perko" Wing Pumps

DOUBLE ACTION—ALL BRONZE  
FOR MARINE, INDUSTRIAL AND DOMESTIC USE

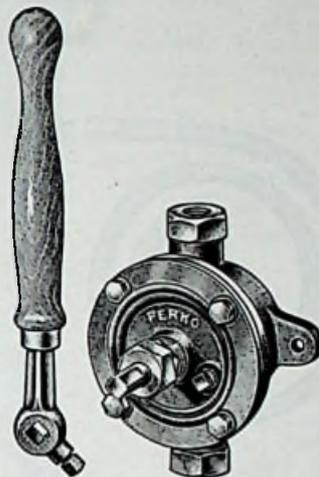


Fig. 681

Truly a champion among bilge pumps. The improvement is so great that we can truthfully claim this pump gives greater capacity with less effort than any other Navy type on the market today.

The plunger or "heart" of the pump is absolutely dependable at all times and can not get out of order. Made of machined brass with heavy square lubricated flax packing set in a groove. This packing is far superior in action and durability to leather washers which have never been fully satisfactory for salt water.

Furnished complete with brackets adjustable for starboard or port mounting.

CAPACITY—20 GALLONS PER MINUTE.

Tested at 55 strokes per minute showing 1½ quarts per stroke.

| Each   | Extreme Length Inches | Diameter Cylinder Inches | Inlet Pipe Thread Inches | Outlet Pipe Thread Inches | Diameter Plunger Rod Inches |
|--------|-----------------------|--------------------------|--------------------------|---------------------------|-----------------------------|
| \$6.50 | 24                    | 2¾                       | 1¼                       | 1½                        | ½                           |

A semi-rotary suction and forcing pump which is without a doubt the most powerful and easily operated hand pump made.

Constructed entirely of cast bronze, principally for use as a marine bilge pump, but is used in large quantities in the industrial field for pumping oil and gasoline, hot liquids, juices, etc.

The interior consists of a cast bronze wing which oscillates on a bronze shaft connected to handle. The wing has lubricated square flax packing set in grooves which runs on interior of drum and as no metal parts rub together this pump will last for years without noticeable wear. Packing is very easily replaced.

The lever handle is made of hardwood, varnished, and operates from either a vertical or horizontal position.

Standard pipe threads in outlet and inlet, and heavy brackets for fastening to bulkhead or wall by bolts.

## "Perko" Navy Pump Strainers

HEAVY CAST BRONZE



Fig. 721



Fig. 722

| Fig.     | Price Each | Pipe Thread Inches | Length Inches | Width Inches | Weight Pounds |
|----------|------------|--------------------|---------------|--------------|---------------|
| Fig. 721 | \$1.10     | 1¼                 | 5             | 2¾           | 1½            |
| Fig. 722 | 1.00       | 1¼                 | 5             | 2¾           | 1¾            |

| No. | Price Each | Size Pipe Connection Inches | Overall Diameter of Body Inches | Capacity Per Minute Gallons | Approx. Weight Each |
|-----|------------|-----------------------------|---------------------------------|-----------------------------|---------------------|
| 0   | \$15.00    | ½                           | 5½                              | 5                           | 11½                 |
| 1   | 17.00      | ¾                           | 5%                              | 7                           | 14                  |
| 2   | 19.50      | 1                           | 6%                              | 9%                          | 19½                 |

Manufactured in U. S. A. by "Perko."

**Brass Bilge Pumps**  
DOUBLE ACTION

Heavy brass seamless tubing, cast bronze fittings, treated leather packing, hollow brass ball checks, D shaped handle. Moulded rubber hose 5 feet long furnished with each pump.

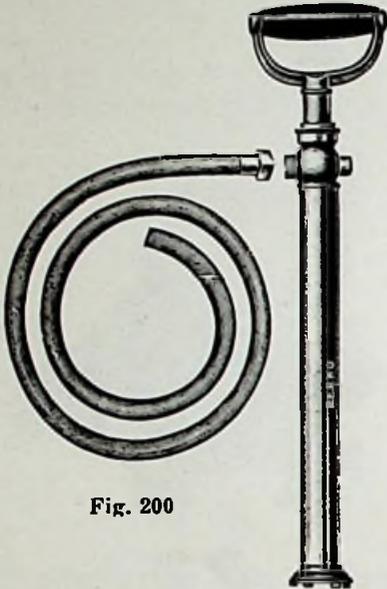


Fig. 200

| Nos. | With Hose Each | Height Inches | Diam. Inches | Capacity Per Min. Gallons | Weight Pounds |
|------|----------------|---------------|--------------|---------------------------|---------------|
| 1    | \$3.25         | 16            | 1 1/2        | 6                         | 2 1/4         |
| 2    | 4.00           | 17            | 1 1/2        | 12                        | 3 1/4         |
| 3    | 4.25           | 26            | 1 1/2        | 8 1/2                     | 3             |
| 4    | 5.00           | 26            | 1 1/2        | 16 1/2                    | 4             |

**Brass Bilge Pumps**

WITH SUCTION HOSE AND STRAINER

Cast bronze foot rest and two 5 foot lengths of hose for suction and discharge.

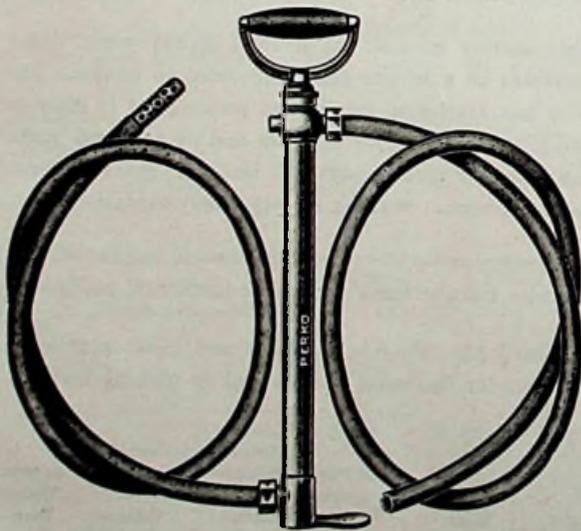


Fig. 202

| Nos. | With Hose Each | Height Inches | Diam. Inches | Capacity Per Min. Gallons | Weight Pounds |
|------|----------------|---------------|--------------|---------------------------|---------------|
| 5    | \$5.25         | 18            | 1 1/2        | 6                         | 3             |
| 6    | 6.00           | 17            | 1 1/2        | 12                        | 4             |
| 7    | 6.50           | 26            | 1 1/2        | 8 1/2                     | 3 1/4         |
| 8    | 7.50           | 28            | 1 1/2        | 16 1/2                    | 5             |

**Brass Bilge Pump**

DOUBLE ACTION

WITH BULKHEAD BRACKETS

Complete with 2 five foot lengths of hose and suction strainer.

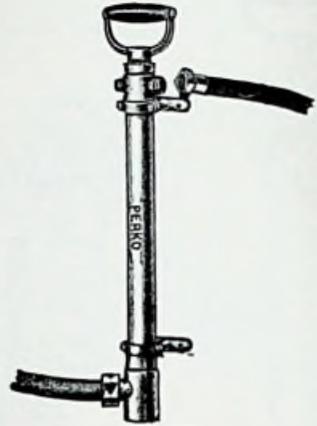


Fig. 524

| Nos. | With Hose Each | Height Overall Inches | Diam. Pump Inches | Weight Pounds |
|------|----------------|-----------------------|-------------------|---------------|
| 11   | \$6.75         | 21                    | 1 1/2             | 9             |
| 12   | 8.00           | 31                    | 1 1/2             | 10            |

**Special Bilge Pump**

SINGLE ACTION — ALL BRASS

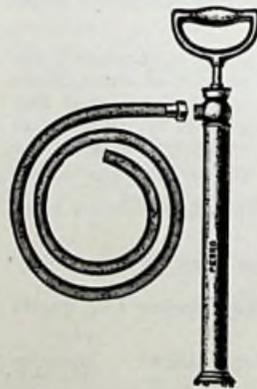


Fig. 723

Designed primarily for the small outboard motor boat or runabout.

Well constructed, of all brass, furnished complete with 5 feet of molded rubber hose.

CAPACITY—at ordinary stroke, 3 1/2 gallons per minute.

| Complete Each | Extra Hose Each | Diameter Inches | Extreme Length Inches | Weight Pounds |
|---------------|-----------------|-----------------|-----------------------|---------------|
| \$2.25        | \$.90           | 1 1/2           | 16                    | 2             |

**Rubber Hose and Strainer**

FOR FIG. 200 AND 202 BRASS BILGE PUMPS

Heavy moulded rubber hose, durable and lasting. 5/8 inch inside diameter.

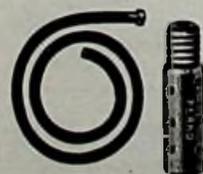


Fig. 208 Fig. 209

Standard 5 ft. lengths  
Cast Bronze Strainer

Each \$ .90

.60

Other lengths of hose can be furnished. Price on application.





### Trench or Bilge Pump

GALVANIZED

Made of heavy tubing, formed from black iron and not galvanized afterwards, water-tight and rustproof seams. Galvanized iron valves with oak leather clapper, wood rod and handle, cone shaped oak leather plunger, as per Fig. 239, well reinforced with galvanized iron bands around body.

ALSO KNOWN AS CONTRACTOR'S PUMP



Fig. 156

|                  |        |        |        |        |        |
|------------------|--------|--------|--------|--------|--------|
| Diameter, inches | 2      | 2½     | 3      | 3½     | 4      |
| Price per foot   | \$ .60 | \$ .65 | \$ .70 | \$ .75 | \$ .80 |

Pumps shorter than 5 feet long charged as 5 foot. Length measured overall.

### Handy Bilge Pump

GALVANIZED

With iron rod and handle, improved oak leather disc plunger as Fig. 238, galvanized iron valve and top cap.

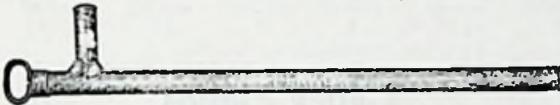


Fig. 158  
PRICE EACH

| Length Overall Feet | Diameter of Pump |        |        |        |
|---------------------|------------------|--------|--------|--------|
|                     | 1½ in.           | 2 in.  | 2½ in. | 3 in.  |
| 2                   | \$1.90           | \$2.00 | .....  | .....  |
| 2½                  | 1.90             | 2.00   | \$2.50 | \$2.75 |
| 3                   | 2.15             | 2.25   | 2.50   | 2.75   |
| 3½                  | 2.30             | 2.40   | 2.70   | 3.10   |
| 4                   | 2.60             | 2.70   | 3.00   | 3.50   |
| 4½                  | 2.70             | 2.80   | 3.15   | 3.75   |
| 5                   | 2.80             | 2.90   | 3.25   | 4.00   |
| 5½                  | 3.00             | 3.10   | 3.50   | 4.30   |
| 6                   | 3.15             | 3.25   | 3.75   | 4.60   |

### Wizard Bilge Pump

GALVANIZED

Wood rod and leather plunger, as Fig. 239. Galvanized iron clapper valve.

| Length Overall Feet | Diameter of Pump |        |        |        |        |
|---------------------|------------------|--------|--------|--------|--------|
|                     | 2 in.            | 2½ in. | 3 in.  | 3½ in. | 4 in.  |
| 2                   | \$2.25           | \$2.70 | \$3.00 | .....  | .....  |
| 2½                  | 2.35             | 2.70   | 3.00   | .....  | .....  |
| 3                   | 2.50             | 2.90   | 3.00   | \$3.30 | .....  |
| 3½                  | 2.65             | 3.00   | 3.10   | 3.30   | \$3.60 |
| 4                   | 2.75             | 3.00   | 3.20   | 3.40   | 3.70   |
| 4½                  | 2.85             | 3.10   | 3.30   | 3.50   | 3.80   |
| 5                   | 2.95             | 3.20   | 3.40   | 3.65   | 3.90   |
| 6                   | 3.40             | 3.80   | 4.00   | 4.40   | 4.70   |



Fig. 344

### Heavy Duty Bilge Pumps

SPIRAL LOCK SEAMED BODY

24 B. & S. Gauge Steel, Hot Galvanized After Forming

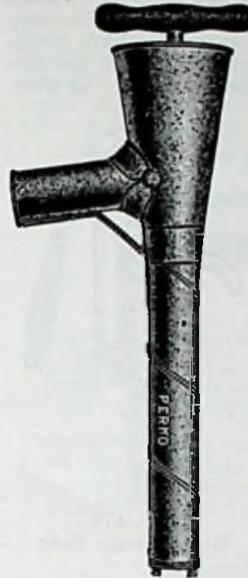


Fig. 724

SOLDERED JOINTS

Galvanized cast iron bottom valve with heavy leather clapper, galvanized steel support for spout rivited to spout and body.

Especially recommended for use by Public Utilities, Contractors and Industrials where pumps are put to very severe use.

| Inside Diameter Body Inches | Price Per Foot |
|-----------------------------|----------------|
| 3                           | \$1.50         |
| 4                           | 1.90           |

Length is measured overall. Pumps shorter than 5 feet charged as 5 feet long.

### Heavy Duty Bilge Pumps

SPIRAL LOCK SEAMED BODY

24 B. & S. Gauge Steel, Hot Galvanized After Forming  
CAST BRONZE COUPLINGS



Fig. 725

SCREW JOINTS

Tapered bottom with cast iron bottom valve with leather clapper, 3" pump has 4" valve,

Wood rod, handle and leather plunger are also furnished.

Each section is furnished with heavy cast bronze coupling, middle section has male and female couplings.

Can be made any length desired, by installing additional middle joints.

| Inside Diameter Body Inches | Price Per Foot |
|-----------------------------|----------------|
| 3                           | \$3.00         |

Prices above apply to pumps in 3 sections only, as illustrated —Pumps shorter than 5 feet, charged as 5 feet long.

2 foot middle sections with male and female bronze couplings ..... Each \$4.90

NOTE—ON ALL PUMPS LISTED HEREWITH THERE IS A CHARGE OF \$1.00 FOR CRATING 6 PUMPS OR LESS. 7 OR MORE PUMPS—NO CRATING CHARGE.



## Basin Pumps

CAST BRONZE—HIGH SPOUT

Made of cast bronze, highly polished or plated. Solid mahogany handle which when down all the way will not pinch the hand against the upright bar. Complete with all couplings as illustrated. Can be furnished with straight base or large flange base as illustrated.

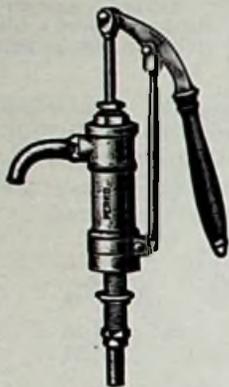


Fig. 473  
With Straight Base

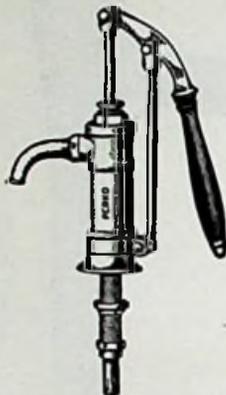


Fig. 478  
With Flange Base

| Diam. Pump Inches | Height Overall Inches | Spread, Handle Up Inches | Spread, Handle Down Inches | Weight Lbs. |
|-------------------|-----------------------|--------------------------|----------------------------|-------------|
| 1½                | 14½                   | 14                       | 8½                         | 4¼          |

PRICE EACH

| Polished Bronze | Nickel Plated | Chromium Plated |
|-----------------|---------------|-----------------|
| \$10.50         | \$11.50       | \$15.50         |

## Basin Pumps

CAST BRONZE—LOW SPOUT

Furnished with either straight base or flange base as illustrated. Complete with all couplings.

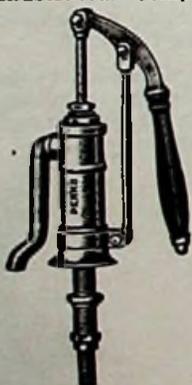


Fig. 474  
With Flange Base

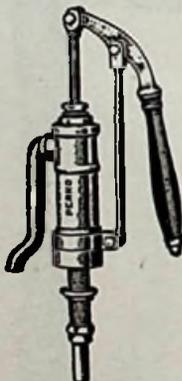


Fig. 479  
With Straight Base

| Diam. Pump Inches | Height Overall Inches | Spread, Handle Up Inches | Spread, Handle Down Inches | Weight Lbs. |
|-------------------|-----------------------|--------------------------|----------------------------|-------------|
| 1½                | 14½                   | 18                       | 7½                         | 4¼          |

PRICE EACH

| Polished Bronze | Nickel Plated | Chromium Plated |
|-----------------|---------------|-----------------|
| \$11.75         | \$12.75       | \$17.25         |

## Basin Pumps

CAST BRONZE—WITH STOP COCK

Furnished with either straight base or flange base with all necessary couplings and stop cock.

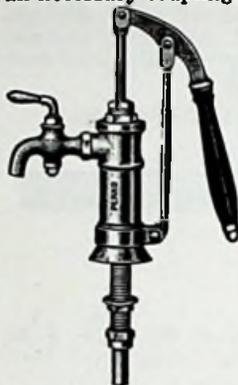


Fig. 525

Diameter pump, 1½ inches  
Height overall, 14½ inches  
Spread, handle up, 14 inches  
Spread, handle down, 9 inches  
Weight, 4½ pounds

When ordering please specify style of base desired.

Flange base regular furnished.

PRICE EACH

| Polished Bronze | Nickel Plated | Chromium Plated |
|-----------------|---------------|-----------------|
| \$12.25         | \$13.25       | \$18.00         |

## Galley Pumps

BRASS TUBING—CAST BRONZE FITTINGS

With ¼ inch pipe couplings or hose connections.

A double acting pump, complete with bulkhead brackets and necessary connections.



Fig. 345

| Nos. | Diam. Pump Inches | Length Overall Inches | Price Each     |               |                 |
|------|-------------------|-----------------------|----------------|---------------|-----------------|
|      |                   |                       | Polished Brass | Nickel Plated | Chromium Plated |
| 9    | 1½                | 21                    | \$5.50         | \$6.50        | \$10.50         |
| 10   | 1½                | 31                    | 7.00           | 8.00          | 12.00           |



Pipe Coupling



Hose Connection

Pump furnished with either of the above fittings. Please specify which is desired.

## Bulkhead Bracket

FOR BASIN PUMPS—CAST BRONZE



Fig. 475

For mounting any of the basin pumps shown above on bulkhead. Removable clamp makes tight fit on body of pump.

PRICE EACH

| Polished Bronze | Nickel Plated | Chromium Plated |
|-----------------|---------------|-----------------|
| \$1.50          | \$1.80        | \$3.00          |



### Marvel Basin Pump

ALL BRONZE

Designed for beauty as well as simplicity, just as attractive as the water fittings in the modern home. Low spout is ideal for lavatories or deep galley sinks; eliminates splashing. Inlet connection is threaded inside and out—female thread for 3/8 inch pipe; male thread for 3/4 inch pipe.

Made to fit standard opening in porcelain lavatories. Capacity per minute, Low Speed Stroke—3 Gallons.



Fig. 144

| Length Overall Inches | Diameter Inches    | Lgth. Spout Inches | Hgt. Above Lavatory Inches | Length Stroke Inches | Weight Pounds |
|-----------------------|--------------------|--------------------|----------------------------|----------------------|---------------|
| 13 1/2                | 1 1/2              | 3                  | 3                          | 5 1/4                | 3             |
| Exposed Parts Only    |                    |                    |                            |                      |               |
| Polished Bronze Each  | Nickel Plated Each | Nickel Silver Each | Chromium Plated Each       |                      |               |
| \$7.75                | \$8.75             | \$7.75             | \$9.75                     |                      |               |

### Utility Basin Pump

ALL BRONZE

Same construction as Fig. 144 above, except that a long upper body with a high spout is furnished; this pump is ideal for general purposes; in the galley, for filling pails or rinsing deep pots and pans, and in the lavatory for any purpose desired, inlet connection threaded same as Fig. 144.

Made to fit standard opening in porcelain lavatories. Capacity per minute, Low Speed Stroke—3 Gallons.



Fig. 145

| Length Overall Inches | Diameter Inches    | Lgth. Spout Inches | Hgt. Above Lavatory Inches | Length Stroke Inches | Weight Pounds |
|-----------------------|--------------------|--------------------|----------------------------|----------------------|---------------|
| 16 1/2                | 1 1/2              | 3                  | 6                          | 5 1/4                | 3 1/2         |
| Exposed Parts Only    |                    |                    |                            |                      |               |
| Polished Bronze Each  | Nickel Plated Each | Nickel Silver Each | Chromium Plated Each       |                      |               |
| \$9.50                | \$10.50            | \$9.50             | \$11.50                    |                      |               |

### Crank Case Pump

DOUBLE ACTION—ALL BRASS

This has been sorely needed by motor boatmen, a quick acting, double action pump for draining the crank case, the long flexible metal spout can be inserted in filler opening of crank case which can be drained very rapidly with no trouble; a short length of rubber hose clamped to outlet of pump will allow draining over-board or into any handy carrier. A continuous flow of oil is maintained on both up and down strokes.

Capacity per minute—2 Gallons



Fig. 146

| Length Pump Overall Inches | Length Inlet Spout Inches | Length Outlet Spout Inches | Diameter Pump Inches | Weight Pounds |
|----------------------------|---------------------------|----------------------------|----------------------|---------------|
| 17 1/2                     | 12 1/2                    | 1 3/4                      | 1 1/4                | 2 1/2         |

Price Each—Complete, as illustrated ..... \$3.75  
 Price Each—Flexible Metal Spouts Only ..... 1.90  
 Moulded Rubber Hose to fit Outlet Spout, .20 per foot  
 Rubber hose not furnished as standard equipment.

### Crank Case Pump

SINGLE ACTION—ALL BRASS



Fig. 388

| Diam. Barrel Inches | Length Barrel Inches | Length Overall Inches | Weight Each Pounds | Complete Each | Extra Spouts Each |
|---------------------|----------------------|-----------------------|--------------------|---------------|-------------------|
| 1 1/2               | 12                   | 15 1/2                | 2                  | \$2.75        | \$1.10            |

### Gooseneck Basin Pump

CAST BRONZE AND NICKEL SILVER

Same construction as Fig. 144. The benefits of this type of spout are obvious, inlet end is threaded for 3/8 inch pipe, will fit standard opening in porcelain lavatories.

Capacity Per Minute—Low Speed Stroke—3 Gallons



Fig. 1040

| Length Overall Inches | Diameter Inches    | Lgth. Spout Inches | Hgt. Above Lavatory Inches | Length Stroke Inches | Weight Pounds |
|-----------------------|--------------------|--------------------|----------------------------|----------------------|---------------|
| 13 1/2                | 1 1/2              | 4 1/4              | 4                          | 5 1/4                | 3             |
| Exposed Parts Only    |                    |                    |                            |                      |               |
| Polished Bronze Each  | Nickel Plated Each | Nickel Silver Each | Chromium Plated Each       |                      |               |
| \$8.00                | \$8.50             | \$8.50             | \$9.50                     |                      |               |



### Pump Valve



Galvanized iron with oak leather clapper, galvanized iron weights on both sides of leather riveted together and screwed to casting.

Fig. 237

|                     |      |      |      |      |      |      |       |
|---------------------|------|------|------|------|------|------|-------|
| Diameter, inches    | 1½   | 2    | 2½   | 3    | 3½   | 4    | 4½    |
| Wgt. per doz., lbs. | 3    | 4    | 6    | 7    | 9    | 11   | 14    |
| Price per doz.      | 2.75 | 3.25 | 4.00 | 4.50 | 5.50 | 6.50 | 10.00 |

### Improved Plunger

Malleable iron stem threaded to cast iron wheel to support oak leather disc plunger.



Fig. 238

| Diam. Inches | Weight Per Dozen Lbs. | Price Per Dozen |
|--------------|-----------------------|-----------------|
| 1½           | 2½                    | \$3.00          |
| 2            | 3                     | 3.50            |
| 2½           | 4½                    | 4.00            |
| 3            | 6                     | 4.50            |

### Leather Plungers

OAK LEATHER  
Riveted together, strong and durable.



Fig. 239

| For Diam. Pump Inches | Weight Per Dozen Lbs. | Price Per Dozen |
|-----------------------|-----------------------|-----------------|
| 2                     | 2                     | \$2.60          |
| 2½                    | 2½                    | 3.30            |
| 3                     | 3                     | 4.00            |
| 3½                    | 3½                    | 4.80            |
| 4                     | 4                     | 5.60            |
| 4½                    | 4½                    | 8.00            |

### Wood Pump Handles



Turned from soft wood, smooth finish, 9 inches long.

Fig. 230

|                    |        |        |
|--------------------|--------|--------|
| Diam. of hole, in. | ¾      | 1½     |
| Price per doz.     | \$1.44 | \$1.92 |

### Wood Pump Rods



Fig. 231

|                     |        |         |
|---------------------|--------|---------|
| Pointed on one end. |        |         |
| Diam., inches       | ¾      | 1½      |
| Lengths, ft.        | 2 to 6 | 6 to 12 |
| Price per ft.       | \$.08  | \$.10   |

NOTE—¾ inch only furnished in 6 inch multiples.  
1½ inch only furnished in 12 inch multiples.

### Brass Bilge Pump Parts

Flange and cup washers are leather, especially treated for use in salt water. Split washer is wrought brass. Ball is hollow and made of wrought brass.

No. 1 fits numbers 1, 3, 5 and 7 bilge pumps. } Page  
No. 2 fits numbers 2, 4, 6 and 8 bilge pumps. }

PRICE EACH

|  |                       |          |
|--|-----------------------|----------|
|  | Flange Washer { No. 1 | } \$ .20 |
|  | Fig. 203 { No. 2      |          |
|  | Cup Washer { No. 1    | } \$ .20 |
|  | Fig. 204 { No. 2      |          |
|  | Split Washer { No. 1  | } \$ .05 |
|  | Fig. 205 { No. 2      |          |
|  | Hollow Ball { No. 1   | } \$ .30 |
|  | Fig. 206 { No. 2      |          |

### Flexible Couplings

DIE CAST WHITE BRASS

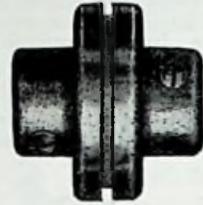


Fig. 687

Die cast under tremendous pressure, a heavy leather disc, 5/16" thick with two inserts on each side furnished complete with set screws. 5/8 and larger have keyway and set screws.

| No. | Price Each | Bore Inches | Length Inches | Outside Diameter Inches | Outside Diameter Hub Inches |
|-----|------------|-------------|---------------|-------------------------|-----------------------------|
| 1   | \$1.00     | ¾ and ½     | 1½            | 1½                      | 1                           |
| 2   | 1.50       | ¾ to ¾      | 1½            | 2½                      | 1½                          |

No extra charge for combination of size bores.

Be sure to specify size bore, both ends, when ordering.

### V Type Pulleys

DIE CAST WHITE BRASS

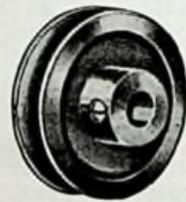


Fig. 688

| No. | Price Each | Outside Diameter Inches | Bores Inches | Running Diameter Inches |
|-----|------------|-------------------------|--------------|-------------------------|
| 1   | \$1.00     | 3                       | ¾ to ¾       | 2 ⅞                     |
| 2   | 1.50       | 4                       | ¾ to ¾       | 3 ½                     |
| 3   | 2.00       | 5                       | ¾ to ¾       | 4 ¼                     |

Be sure to specify size bore when ordering.

### Brass Grease Cups

FOR PERKO GEAR PUMPS



Fig. 961

Drawn from heavy gauge sheet brass. This cup is of light weight yet practically indestructible.

| No. | Each   | Height Inches | Inside Diam. Inches | Pipe Thread Inches | Capacity Ounces |
|-----|--------|---------------|---------------------|--------------------|-----------------|
| 1   | \$ .30 | 1 ⅞           | ½                   | ⅞                  | ⅞               |
| 2   | .35    | 1 ¾           | ¾                   | ⅞                  | ¾               |
| 3   | .45    | 2 ⅞           | 1 ¼                 | ⅞                  | ¾               |

## Propeller Shaft Bilge Pump

BEARINGLESS—CAST BRONZE

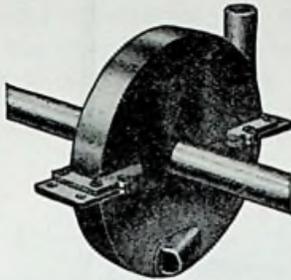


Fig. 1017

An ideal Bilge Pump for every type of boat. Made in two halves. It can be installed without moving the propeller shaft.

Adjust the pump housing on brackets or bed plate so that it does not touch the shaft or pump vanes.

NO LUBRICATION NECESSARY.

| No. | Price Each | Pipe Size of Outlet Inches | Overall Width of Flange Inches | Overall Length of Flange Inches |
|-----|------------|----------------------------|--------------------------------|---------------------------------|
| 1   | \$13.00    | 1/2                        | 2 7/8                          | 8 5/8                           |
| 2   | 15.00      | 1/2                        | 2 1/8                          | 11 1/8                          |
| 3   | 20.00      | 3/4                        | 3 1/8                          | 15 1/8                          |

| No. | Distance from Center of shaft To bottom of boat Inches | Capacity at 800 R.P.M. Per hour Gallons |
|-----|--|---|
| 1   | 3  | 360                                     |
| 2   | 4 3/8  | 450                                     |
| 3   | 6 1/4  | 900                                     |

State Diameter of Shaft when ordering.

## Check Valves

CAST BRONZE

A simple but exceptionally dependable check valve. Threaded to fit standard pipe.

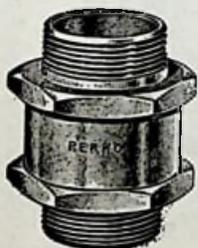


Fig. 273

Plunger



Fig. 68

| Size Pipe Inches | Length Overall Inches |
|------------------|-----------------------|
| 3/4              | 2 3/4                 |
| 1                | 3                     |
| 1 1/4            | 3                     |
| 1 1/2            | 3 3/4                 |

Spring



Fig. 69

| Weight Each Lbs. |
|------------------|
| 3/4              |
| 1                |
| 1 1/4            |
| 1 1/2            |

PRICE EACH

| Size Pipe Inches | Complete | Plunger Only | Springs Only |
|------------------|----------|--------------|--------------|
| 3/4              | \$1.90   | \$.50        | \$.08        |
| 1                | 2.10     | .60          | .10          |
| 1 1/4            | 2.50     | .70          | .12          |
| 1 1/2            | 3.00     | .80          | .14          |

## Motor Driven Gear Pump

WITH 12 OR 32 VOLT MOTOR  
3/4 INCH PUMP—1/6 H.P. MOTOR

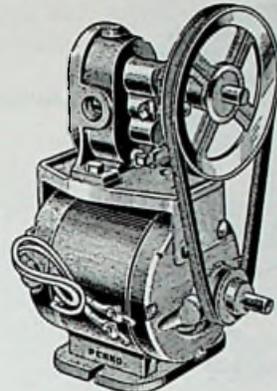


Fig. 576

Designed primarily for bilge pumping, fire fighting, washing down decks and top sides, for all general purposes.

Pump—All bronze gear type with 3/4 inch pipe connection.

Motor—A specially built drip-proof type treated to withstand dampness. Its normal current draw is about 7 amperes for 32 volt type and 18 amperes for 12 volt type.

Capacity—Motor drives pump at 580 R.P.M. through a V belt. Pumps about 350 gallons per hour at 0 lbs. pressure. Reasonable pressures can be obtained for intermittent service.

| No. | Price Each | Voltage of Motor | Size of Base Inches | Height Overall Inches |
|-----|------------|------------------|---------------------|-----------------------|
| 1   | \$75.00    | 12               | 5 3/4 x 4 3/4       | 14                    |
| 2   | 70.00      | 32               | 5 3/4 x 4 3/4       | 14                    |

## Copper Bilge Pumps

16 OZ. COPPER BODY—CAST BRONZE VALVE

With wood rod and leather plunger, a pump of large capacity, easy action. The non-corrosive copper body should last a lifetime.

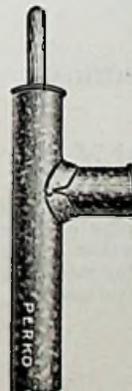


Fig. 693

| Diameter Inches | Price Each |
|-----------------|------------|
| 2               | \$6.00     |
| 2 1/2           | 6.50       |
| 3               | 7.00       |

Above prices apply to all lengths up to 5 foot inclusive. Longer lengths, price on application.

A very large assortment of Pumps are shown on Pages 66 to 74.



## The Improved Boatman Closet

ALL BRONZE PUMP AND FITTINGS  
BIRCH SEAT AND COVER—MAHOGANY FINISH

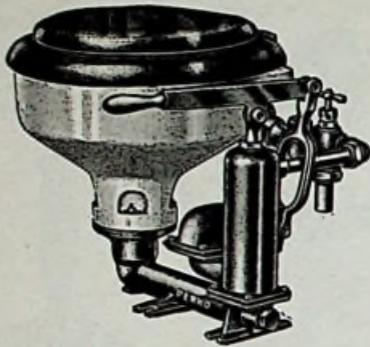
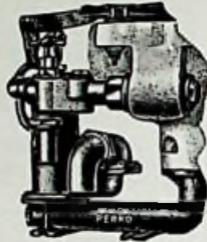


Fig. 828



Back View of Pump and Supply Connections

Used either above or below water line. White vitreous china bowl, rim flushing. Pump for supply and discharge 2 1/2 inch diameter with hemp packed piston.

Waste valve contains leather clack washers.

Combination supply and check valve.

Chromium plated hinges on seat and cover.

|                                   |                                    |                       |                        |                         |
|-----------------------------------|------------------------------------|-----------------------|------------------------|-------------------------|
| Overall Width Side to Side Inches | Overall Width Front to Back Inches | Overall Height Inches | Inlet Pipe Size Inches | Outlet Pipe Size Inches |
| 17 1/2                            | 17 1/2                             | 14 1/4                | 3/4                    | 1 1/2                   |

|                                       |         |
|---------------------------------------|---------|
| Price each, Complete                  | \$32.00 |
| With White Seat and Cover, add each   | 3.50    |
| Mahogany finish Seat and Cover only   | 4.75    |
| White Vitreous China Bowls only, each | 13.00   |

We have made a number of improvements in our boat closets, such as, a new bowl which eliminates loose pipe connections where supply pipe is connected to it, fewer bends in pipe, a longer stroke pump, improved supply valve, improved and positive discharge, fewer parts to replace, easier and effortless operation. We, of course, retained the large cleanout plug which has always been a popular feature.

## Angle Sea Cocks

CAST BRONZE  
WITHOUT THROUGH HULL CONNECTIONS



Fig. 836

Heavy cast bronze handle.

Tail piece for lead pipe or hose connection — 3/4 inch for inlet, 1 1/2 inch for outlet.

| Iron Pipe Size Inches | Weight Each Pounds | Without Strainer Each | With Strainer Each |
|-----------------------|--------------------|-----------------------|--------------------|
| 3/4                   | 2                  | \$3.00                | \$3.30             |
| 1                     | 4                  | 5.50                  | 6.00               |

## The Yachtsman

WITH SELF CLOSING FOOT VALVE

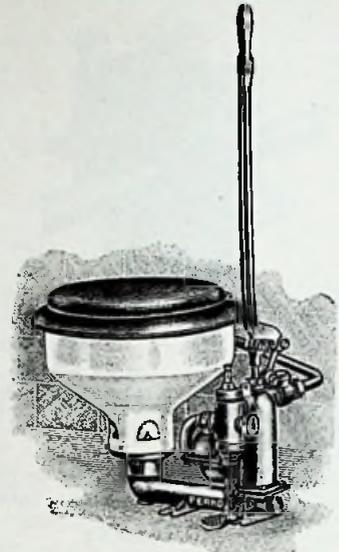


Fig. 829

Sizes overall—side to side, 17 1/2 inches; back to front 17 1/2 inches; height to cover, 14 1/4 inches; net weight 41 pounds; inlet, 3/4 inch I. P. S.; outlet, 1 1/2 inch I. P. S.

|                                     |         |
|-------------------------------------|---------|
| PRICE EACH COMPLETE                 | \$44.00 |
| With White Seat and Cover           | 47.00   |
| Mahogany Finish Seat and Cover Only | 4.75    |

## Bronze Sea Cocks

WITH OR WITHOUT THRU HULL CONNECTIONS

With straight tail piece for lead pipe or hose connection heavy cast bronze handle, pinned to cock to prevent loss, drain plugs on two sides of body.



Fig. 835



Fig. 834

| Iron Pipe Size Inches | Weight Each Pounds | With Hull Connection Each | Without Hull Connection Each | With Strainer Add Each |
|-----------------------|--------------------|---------------------------|------------------------------|------------------------|
| 3/4                   | 3                  | \$4.50                    | \$3.75                       | \$0.25                 |
| 1                     | 4 1/2              | 5.50                      | 4.40                         | .25                    |
| 1 1/2                 | 9 1/2              | 9.75                      | 8.50                         | .55                    |
| 2                     | 12                 | 14.25                     | 12.50                        | .75                    |

## Corner Lavatory WHITE VITREOUS CHINA

With integral back and round basin with overflow, fitted with nickel plated waste plug, chainstay, chain and stopper. Size of outlet 1 1/4 inches outside diameter. Inlet to pump 1/2 inch inside diameter.

With nickel plated low spout pump, Fig. 479

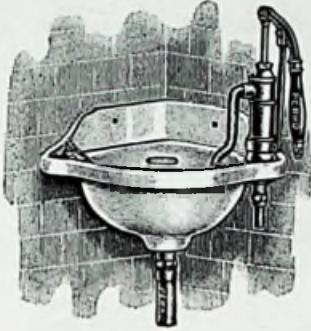


Fig. 830

| No. | Size of Sides Inches | Diam. of Basin Inches | Height Back Inches | Complete with Pump Each | Complete Except Pump Each |
|-----|----------------------|-----------------------|--------------------|-------------------------|---------------------------|
| 1   | 12x12                | 10                    | 2 1/2              | \$31.50                 | \$18.25                   |
| 2   | 14x14                | 11                    | 2 1/2              | 33.00                   | 19.75                     |

With Chromium Plated fittings add \$4.00 each

Furnished with chromium plated compression faucet if desired, add \$3.50 to price of lavatory without pump.

## Flat Back Lavatory WHITE VITREOUS CHINA

With integral back and round basin. Complete with nickel plated waste plug, chainstay, chain, and stopper. Size of outlet 1 1/4 inch outside diameter, inlet to pump 1/2 inch inside diameter.

With nickel plated high spout pump, Fig. 473

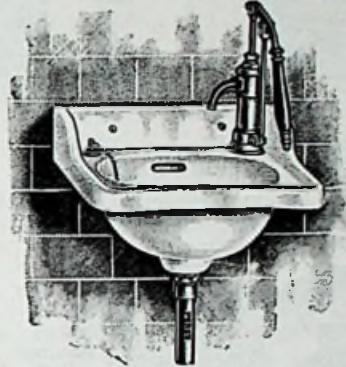


Fig. 832

| No. | Size Inches | Diam. of Basin Inches | Height Back Inches | Complete with Pump Each | Complete Except Pump Each |
|-----|-------------|-----------------------|--------------------|-------------------------|---------------------------|
| 4   | 14x14       | 11                    | 2 1/2              | \$31.00                 | \$18.50                   |

With Chromium Plated fittings add \$4.00 each

## Flat Back Lavatory

With Chromium Plated low spout compression faucet.



Fig. 831

| No. | Size Inches | Diam. of Basin Inches | Height Back Inches | Complete with Faucet Each | Complete Except Faucet Each |
|-----|-------------|-----------------------|--------------------|---------------------------|-----------------------------|
| 3   | 12x12       | 10                    | 2 1/2              | \$19.50                   | \$16.00                     |

## Galley Sinks

CAST IRON—PORCELAIN ENAMELED INSIDE

With flat rim and 1 inch flange, complete with nickel plated brass plug type strainer and rubber stopper. Connections for 1 1/2 inch lead pipe, 2 inch outlet in sink.



Fig. 833

| No. | Width Overall Inches | Length Overall Inches | Depth Inside Inches | Price Each |
|-----|----------------------|-----------------------|---------------------|------------|
| 1   | 12                   | 12                    | 6                   | \$6.30     |
| 2   | 12                   | 18                    | 6                   | 8.10       |
| 3   | 14                   | 20                    | 6                   | 9.60       |
| 4   | 16                   | 24                    | 6                   | 10.30      |

For detailed information on various types of basin and galley pumps see page 72-73.

### Outlet Connections CAST BRONZE

Used as outlet fittings for engines, pumps, lavatories, water closets, etc. Threaded to fit standard pipe. Complete with large flange lock nut.

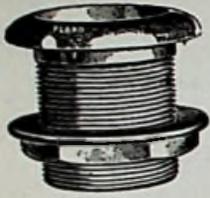


Fig. 322

| Size Pipe Inches | Price Each | Length under Flange Inches | Weight Each |
|------------------|------------|----------------------------|-------------|
| ¼                | \$ .65     | 1½                         | 1 oz.       |
| ⅜                | .75        | 2½                         | 3 oz.       |
| ½                | .90        | 2½                         | 4 oz.       |
| ¾                | 1.00       | 2½                         | 8           |
| 1                | 1.25       | 2½                         | 12          |
| 1¼               | 1.75       | 3                          | 1½ lbs.     |
| 1½               | 2.50       | 3½                         | 2½          |
| 2                | 3.00       | 3½                         | 2½          |
| 2½               | 5.00       | 3½                         | 3½          |

### Scoop Strainers CAST BRONZE

Can be used with inlet connection, Fig. 64. No. 1 will fit up to ½ inch. No. 2 will fit up to 1 inch. No. 3 will fit up to 1½ inches.



Fig. 66

| No. | Price Each | Outside Dimensions Inches | Weight Each |
|-----|------------|---------------------------|-------------|
| 1   | \$ .30     | 3½ x 2½                   | 4 oz.       |
| 2   | .50        | 5 x 3¼                    | 7 oz.       |
| 3   | .90        | 6¼ x 4¼                   | 1 lb.       |

### Inlet Connections CAST BRONZE

A good, dependable connection, easy to install. Fits flush with outside of hull. Complete with large flange lock nut and hose coupling.

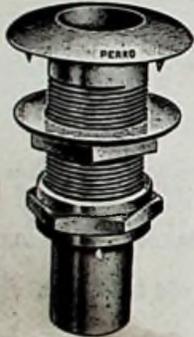


Fig. 64

| Size Pipe Inches | Without Strainer Each | With Strainer Each | For Planking Inches | Weight |
|------------------|-----------------------|--------------------|---------------------|--------|
| ¼                | \$1.15                | \$1.50             | ¾                   | 2 oz.  |
| ⅜                | 1.25                  | 1.75               | 1½                  | 4 oz.  |
| ½                | 1.40                  | 1.90               | 1½                  | 7 oz.  |
| ¾                | 1.65                  | 2.15               | 1½                  | 10     |
| 1                | 2.00                  | 2.75               | 1¾                  | 1 lb.  |
| 1¼               | 2.75                  | 3.75               | 1¾                  | 2      |
| 1½               | 3.75                  | 5.50               | 2¼                  | 2½     |
| 2                | 5.00                  | 7.00               | 2¼                  | 3½     |

### Round Strainers PLAIN CAST BRONZE



Fig. 86

| Diam. Inches | Price Each | Depth Inches | Weight Each |
|--------------|------------|--------------|-------------|
| 2½           | \$ .25     | ½            | 2 oz.       |
| 3            | .30        | ⅝            | 4 oz.       |
| 3½           | .40        | ¾            | 5 oz.       |
| 4            | .40        | ¾            | 6 oz.       |
| 5            | .75        | 1            | 12 oz.      |
| 6            | 1.00       | 1¼           | 1 lb.       |
| 8            | 2.00       | 1½           | 2 lbs       |

### Hose Couplings CAST BRONZE

For lead pipe or hose connections, furnished complete with leather washer, coupling nut and straight or 90 degree elbow tail pieces. Threaded standard pipe size (I. P. S.).



Fig. 67  
Straight Tail Piece

Fig. 78  
90 Degree Tail Piece

| Pipe Size Inches | Price Each Fig. 67 | Price Each Fig. 78 | Weight Each |
|------------------|--------------------|--------------------|-------------|
| ¼                | \$ .50             |                    | 1 oz.       |
| ⅜                | .50                |                    | 2 oz.       |
| ½                | .60                |                    | 3 oz.       |
| ¾                | .60                | \$ .60             | 5 oz.       |
| 1                | .75                | .75                | 6 oz.       |
| 1¼               | 1.25               |                    | 8 oz.       |
| 1½               | 1.25               | 1.25               | 1 lb.       |
| 2                | 1.75               | 1.75               | 1½ lbs.     |

### Water Outlet CAST BRONZE

For use on boats with water outlet on side of hull. Large flange protects hull from stain. Hood prevents spray entering boat. Standard pipe thread will fit standard lead pipe connections.

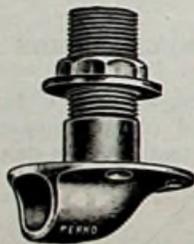


Fig. 332

| No. | Size Pipe Inches | Diam. Flange Inches | Length of Pipe Inches | Weight |
|-----|------------------|---------------------|-----------------------|--------|
| 1   | ¾                | 2¾                  | 2¼                    | 12 oz. |
| 2   | 1                | 3                   | 3¼                    | 1 lb.  |

| No. | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |
|-----|----------------------|--------------------|----------------------|
| 1   | \$2.00               | \$2.50             | \$2.75               |
| 2   | 2.50                 | 3.00               | 3.25                 |

### Speedboat Strainers CAST BRONZE ONE PIECE

Designed to prevent clogging. Will admit full supply of water at all speeds.

Entire strainer including threaded neck is one solid casting.

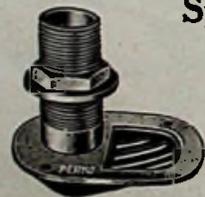


Fig. 65

| Size Pipe Inches | Price Each | Length Pipe Inches | Size Strainer Inches | Weight Each |
|------------------|------------|--------------------|----------------------|-------------|
| ¼                | \$1.25     | 2¼                 | 2½ x 3½              | 11 oz.      |
| ⅜                | 1.50       | 2½                 | 3 x 4                | 14 oz.      |
| 1                | 2.00       | 3                  | 3 x 4                | 1½ lbs.     |
| 1¼               | 2.50       | 3½                 | 3½ x 4½              | 1½ lbs.     |
| 1½               | 3.00       | 3½                 | 4¼ x 6¼              | 2½ lbs.     |





### "Perko" Alcohol Burner

CAST BRONZE—NICKEL FINISH

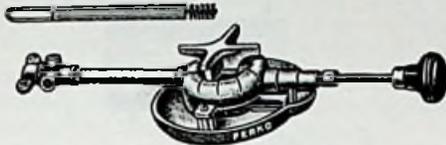


Fig. 979

The burner that is used in Perko Alcohol Stoves, which have proven very successful and are used on hundreds of boats throughout the country.

This burner furnishes intense cooking heat and is practically noiseless in operation, safe and dependable. A good grade of denatured alcohol should always be used.

The slotted burner is more desirable than other types as the flame covers a larger area.

Complete with wire brush filter and fittings for installing ..... \$6.00  
Wire brush filters only, each ..... .80

### Fuel Tank for Alcohol Stoves

COPPER—1 GALLON CAPACITY

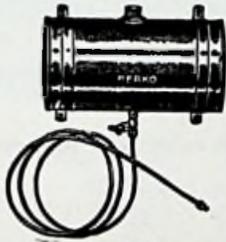


Fig. 980

Made of heavy weight sheet copper, highly polished. Fittings include shutoff valve, 5 feet of copper tubing and tubing connections.

| Complete With Fittings Each | Tank Only No Fittings Each | Diameter Inches | Length Inches |
|-----------------------------|----------------------------|-----------------|---------------|
| \$5.00                      | \$4.00                     | 5 1/2           | 11 1/4        |

### Adjustable Pot Holders

CAST BRONZE—POLISHED  
FOR ALL "PERKO" STOVES

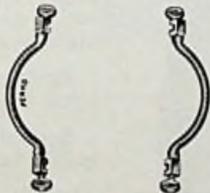


Fig. 507

A pair of these around the pot or pan on the stove will prevent a very annoying and sometimes disastrous detriment to full boating enjoyment. Adjustable to fit whatever size utensil the stove will hold.

Per pair ..... \$2.50

### Liverpool Heads

Of heavy gauge metal, all parts riveted, top and bottom double seamed. Fits over standard stove pipe.



Fig. 347

| Size Inches | Galv. Each | Brass Each |
|-------------|------------|------------|
| 3           | \$ 5.50    | \$ 7.00    |
| 3 1/2       | 5.75       | 7.25       |
| 4           | 6.00       | 7.50       |
| 4 1/2       | 6.60       | 8.60       |
| 5           | 7.20       | 9.30       |
| 5 1/2       | 8.60       | 10.20      |
| 6           | 8.90       | 12.00      |
| 7           | 10.00      | 15.00      |
| 8           | 15.00      | 18.00      |
| 10          | 18.00      | 25.00      |

### Water Deck Irons

GALVANIZED CAST IRON



Fig. 430

| Size of Stove Pipe Inches | Price Each | Outside Diam. of Neck Inches | Diam. Flange Inches | Weight Pounds |
|---------------------------|------------|------------------------------|---------------------|---------------|
| 2 1/2                     | \$1.10     | 2 3/4                        | 6 3/4               | 1 7/8         |
| 3                         | 1.60       | 3 1/8                        | 7 1/2               | 3 1/2         |
| 3 1/2                     | 1.80       | 3 1/2                        | 8 3/8               | 4             |
| 4                         | 2.10       | 4 3/8                        | 9 1/4               | 5 3/8         |
| 4 1/2                     | 2.30       | 4 1/2                        | 10                  | 6 1/2         |
| 5                         | 2.50       | 5 3/8                        | 10 1/2              | 7             |
| 5 1/2                     | 3.00       | 5 1/2                        | 11                  | 9             |
| 6                         | 3.40       | 6 1/8                        | 11 1/4              | 9 3/8         |
| 7                         | 3.90       | 7 3/8                        | 13                  | 11            |
| 8                         | 5.75       | 8 1/4                        | 14 5/8              | 16 1/4        |

### Sword Fish Darts

PLAIN CAST BRONZE



Fig. 805

| Price Each | Length Inches | Weight Per 100 In Pounds |
|------------|---------------|--------------------------|
| \$0.40     | 5             | 31                       |

### Dart Shank

STEEL SHANK—CAST BRONZE SOCKET

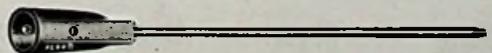


Fig. 655

Length overall, 24 inches; Weight, 1 1/4 pounds.

Price each ..... \$1.50



### “Perko” Alcohol Stoves

GRAVITY TYPE—IMPROVED

FURNISHED COMPLETE WITH 1 GALLON COPPER TANK, 5 FEET COPPER TUBING AND ALL FITTINGS FOR IMMEDIATE INSTALLATION AND USE.

ALSO FURNISHED, IF DESIRED, WITH CAST BRONZE POT HOLDERS AS ILLUSTRATED (PAT. PENDING), ADJUSTABLE FOR ANY SIZE POT.

Constructed of heavy gauge sheet steel, double seamed and riveted at all joints, heavy wire bead around all edges.

This stove uses high grade denatured alcohol which is a safe, dependable fuel and can be obtained anywhere at small cost.

The improved burners give a clear blue flame not disturbed by vibration or rough seas, and will burn for about 10 hours on one gallon of alcohol. A sliding tray is furnished which is firmly held in place, yet easily removed.

Standard finish is a baked neutral gray enamel which will harmonize with the finish of most galleys.

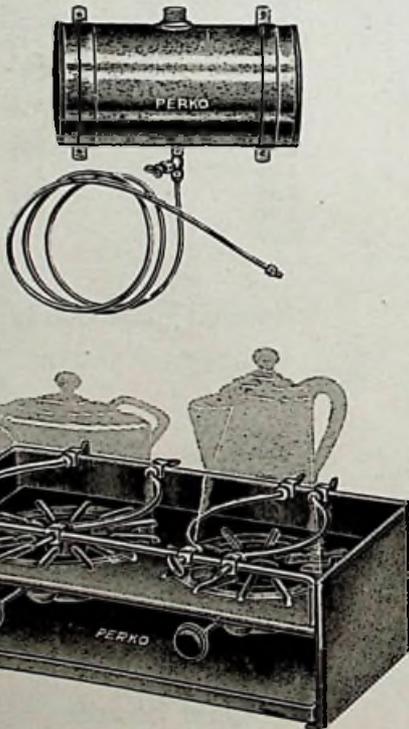


Fig. 714

|                                |                               |                                |   |
|--------------------------------|-------------------------------|--------------------------------|---|
| Extreme Length<br>Inches<br>20 | Extreme Height<br>Inches<br>7 | Extreme Width<br>Inches<br>11½ | Wt. Complete<br>With Tank<br>Pounds<br>24 |
|--------------------------------|-------------------------------|--------------------------------|---|

Complete with fuel tank, tubing and fittings ..... \$18.00  
 Stove only, without tank, tubing or fittings ..... 16.00  
 Pot Holders—per pair—for one Burner ..... 2.50

### “Perko” Gravity Alcohol Stove

THREE BURNER

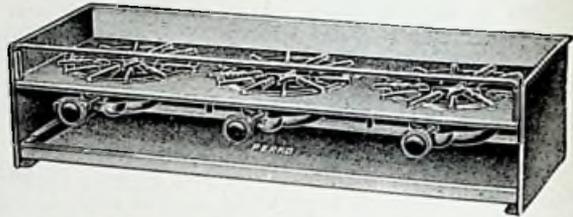


Fig. 990

|                                |                               |                                |                                     |
|--------------------------------|-------------------------------|--------------------------------|-------------------------------------|
| Extreme Length<br>Inches<br>31 | Extreme Height<br>Inches<br>7 | Extreme Width<br>Inches<br>11½ | Capacity<br>of Tank<br>Gallons<br>1 |
|--------------------------------|-------------------------------|--------------------------------|-------------------------------------|

Complete with copper fuel tank, tubing and fittings \$27.00  
 Stove only, without tank, tubing or fittings ..... 25.00

Width shown is extreme of body not including valve handle.

### “Perko” Alcohol Water Heater

PRESSED STEEL JACKET

GRAY VITREOUS ENAMEL FINISH

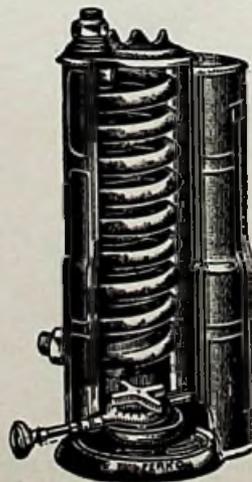


Fig. 557

Heavily constructed for marine use. A pressed steel jacket fitted with substantial double copper coils and baffle plate which distributes the heat directly on the coils.

Equipped with Perko alcohol burner.

Suitable for use with 3 gallon tank.

|                                |                      |                                 |
|--------------------------------|----------------------|---------------------------------|
| Overall Height<br>Inches<br>25 | Diam.<br>Inches<br>8 | Pipe Connections<br>Inches<br>¾ |
|--------------------------------|----------------------|---------------------------------|

Price Complete with Copper Alcohol Tank and Fittings ..... \$22.50



## “PERKO” PRESSURE ALCOHOL STOVES

ONE, TWO AND THREE BURNER TYPES

A real improvement in Pressure Type Stoves, its main and very important feature being the fuel tank installation. This tank is installed in the bottom of the stove body entirely removed from the burners and further protected from heat by the removable tray which is placed in the space between the burners and the tank.

The greatly improved burners give a clear blue flame not disturbed by vibration or rough seas. These new burners plus the feeding of fuel by pressure raises the heating capacity about 50% over the gravity feed type but reduces fuel consumption about the same percentage.

Stove body and fuel tank are both constructed of heavy gauge sheet steel (Lead coated) double seamed and riveted at all joints.

The compactness of this stove, having no separate tank or fittings allows it to be used anywhere, in the galley, on the beach when cooking ashore or in the cockpit if necessary.

A good grade of “Burning Alcohol” should always be used.

Finish is a baked neutral gray enamel.

### One Burner

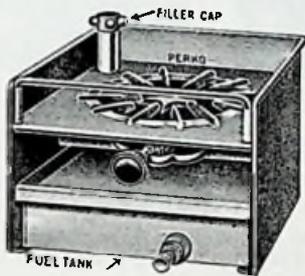


Fig. 1013

|               |                       |                       |                       |                          |
|---------------|-----------------------|-----------------------|-----------------------|--------------------------|
| Each Complete | Extreme Length Inches | *Extreme Width Inches | Extreme Height Inches | Capacity of Tank Gallons |
| \$18.00       | 11 3/4                | 11 1/2                | 8 1/2                 | 3/4                      |

### Two Burner

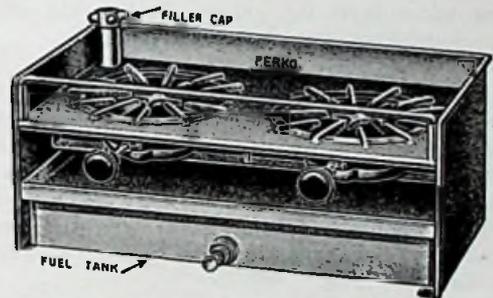


Fig. 1014

|               |                       |                       |                       |                          |
|---------------|-----------------------|-----------------------|-----------------------|--------------------------|
| Each Complete | Extreme Length Inches | *Extreme Width Inches | Extreme Height Inches | Capacity of Tank Gallons |
| \$23.00       | 20                    | 11 1/2                | 8 1/2                 | 1 1/2                    |

### Three Burner

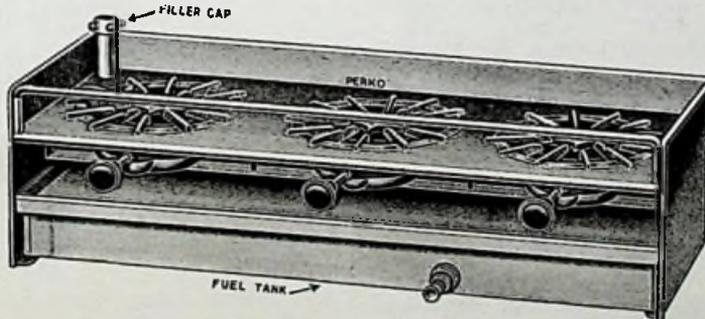


Fig. 1015

|               |                       |                       |                       |                          |
|---------------|-----------------------|-----------------------|-----------------------|--------------------------|
| Each Complete | Extreme Length Inches | *Extreme Width Inches | Extreme Height Inches | Capacity of Tank Gallons |
| \$32.00       | 31                    | 11 1/2                | 8 1/2                 | 2                        |

\* Width shown is extreme of body, not including valve handle.

To obtain perfect and life long satisfaction from “Perko” Alcohol Stoves keep burners clean inside and outside. Periodically remove thumb nut on back of burner, pull out wire brush filter, clean and replace. Be sure when replacing filter it is not pushed in all the way, just enough to allow thumb nut to be screwed on tight.



**"Perko" Marine Exhaust Fans**

(Also known as Blowers)

ELECTRIC 6—12—32—OR 110 VOLTS

HEAVY CAST ALUMINUM CASING AND FLANGE

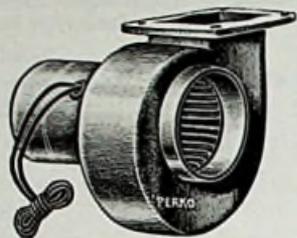


Fig. 778

For removing dangerous gasoline fumes from the bilge and engine room, exhausting excess heat and cooking odors from the galley. Getting rid of foul air or odors from cargo holds and bilges.

An absolute necessity to the motor boat because their use decreases the hazard of fires and explosions from gasoline fumes.

Exhaust fan consists of heavy duty fully enclosed spark proof motor driving a sirocco type exhaust fan enclosed in a heavy cast aluminum housing with heavy flange for mounting.

| No. | Size Intake Inches | Size Outlet Inches | Dimensions Overall Inches | Capacity Cubic Feet Per Minute | Size Flange Inches |       |
|-----|--------------------|--------------------|---------------------------|--------------------------------|--------------------|-------|
|     |                    |                    |                           |                                | No. 1              | No. 2 |
| 1   | 3                  | 2 1/4              | 7 1/2 x 6 x 6             | 90                             | 3 1/2 x 3 1/2      |       |
| 2   | 4                  | 4                  | 8 1/2 x 8 x 8             | 186                            | 4 1/2 x 4 1/2      |       |

| Volts | No. of Fans |            | Amperes |       | Watts |       |
|-------|-------------|------------|---------|-------|-------|-------|
|       | No. 1 Each  | No. 2 Each | No. 1   | No. 2 | No. 1 | No. 2 |
| 6     | \$10.50     | \$26.00    | 3.25    | 7.    | 19.6  | 42.0  |
| 12    | 10.50       | 26.00      | 1.70    | 4.    | 20.8  | 48.0  |
| 32    | 10.50       | 26.00      | .75     | 1.5   | 20.0  | 49.0  |
| 110   | 13.00       | 29.00      | .25     | .45   | 27.0  | 50.0  |

The 110 volt fan has a universal motor, for AC and DC current.

A caution plate is furnished with every fan.

**Exhaust Fan Ventilator**

WITH SWIVEL DECK PLATE—CAST BRONZE



Fig. 634

Can be turned in any direction, made in two heights, furnished with cover for deck plate when vent is removed. Side of deck flange can be cut away for installing against side of deck house.

| No. | Diam. Bottom Opening | Extreme Height Inches | Size of Mouth Inches |
|-----|----------------------|-----------------------|----------------------|
| 1   | 2                    | 6 1/8                 | 2 1/4 x 4 1/2        |
| 2   | 2                    | 8                     | 2 1/4 x 4 1/2        |

Polished Bronze Each \$8.00

Nickel Plated Each \$9.00

Chromium Plated Each \$14.50

**"Perko" Exhaust Fan and Ventilators**

WITH ROUND OR OVAL MOUTH VENTILATOR AND NO. 1 EXHAUST FAN, 3 INCH INTAKE

Round Mouth

Oval Mouth

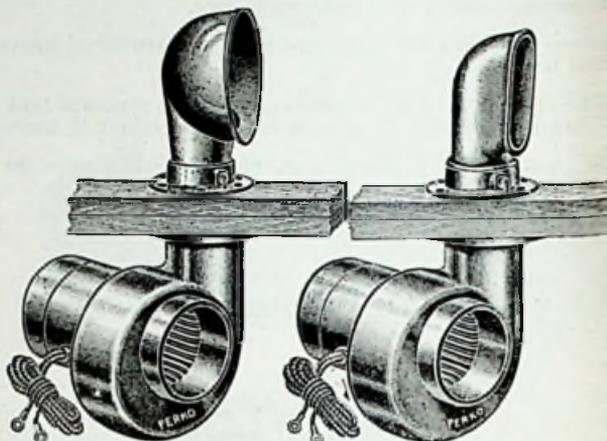


Fig. 780

Fig. 781

Fig. 780 has a spun brass or copper ventilator 2 inch bottom opening, 5 inch mouth, 7 inches high overall.

Fig. 781 has a cast bronze ventilator 2 inch bottom opening, 2 1/4 x 4 1/2 inch mouth, 6 1/2 inches high overall.

Both ventilators have cast bronze swivel deck plate. Price complete—either style ..... \$17.

Don't forget to mention the voltage.

For information on Exhaust Fan see Fig. 778.

**Turbine Ventilator**

GALVANIZED IRON AND COPPER

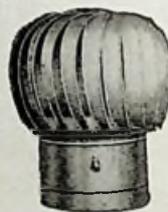


Fig. 744

For removing gasoline fumes from engine room or bilge, cooking odors from the galley, ventilation of cabins, etc.

The moving breeze whirls the head and the resulting vacuum causes a powerful upward lift to the air below. Absolutely quiet in operation, durable and rainproof.

| Diam. Body Inches | Galv. Iron Each | Copper Each |
|-------------------|-----------------|-------------|
| 4                 | \$ 8.00         | \$13.00     |
| 5                 | 8.00            | 13.00       |
| 6                 | 8.00            | 13.00       |
| 7                 | 9.00            | 14.00       |
| 8                 | 10.00           | 16.00       |



### Streamline Ventilator

FOR CRUISERS

CAST BRONZE AND NICKEL SILVER

Side View



Fig. 633

Front View



Designed for mounting against side of deck house or cabin. Takes up very little space. Practical and pleasing to the eye. Will fit over pipe up to 2 inches.

| Size of Mouth Inches | Extreme Height Inches | Extreme Length Inches | Extreme Width Inches | Weight Each Pounds |
|----------------------|-----------------------|-----------------------|----------------------|--------------------|
| 4 x 1 3/4            | 5 3/4                 | 6 3/4                 | 2 3/4                | 1 3/4              |

| Polished Bronze Per Pair | Nickel Plated Per Pair | Chromium Plated Per Pair | Nickel Silver Per Pair |
|--------------------------|------------------------|--------------------------|------------------------|
| \$7.00                   | \$8.50                 | \$11.00                  | \$9.00                 |

A pair consists of one right hand and one left hand.

### Clam Shell Ventilators

CAST BRONZE AND NICKEL SILVER IMPROVED

Now made in two sizes, with base improved in appearance.



Fig. 323

| No. | Width Opening Inches | Height Opening Inches | Size Base Inches | Weight Oz. |
|-----|----------------------|-----------------------|------------------|------------|
| 4   | 2 3/4                | 1 3/4                 | 3 3/8 x 3 1/2    | 11         |
| 5   | 3 1/2                | 2                     | 4 x 3 3/8        | 14         |

| No. | Polished Bronze Each | Nickel Plated Each | Nickel Silver Each | Chromium Plated Each |
|-----|----------------------|--------------------|--------------------|----------------------|
| 4   | \$1.40               | \$1.70             | \$1.70             | \$2.50               |
| 5   | 1.50                 | 1.80               | 1.80               | 2.70                 |

### Streamline Ventilator

CAST BRONZE AND NICKEL SILVER CLAM SHELL TYPE

A new design of runabout ventilator that will match other streamline fittings on the deck. Made in three sizes, small size can be used as shield for water outlet in hulls of cruisers.



Fig. 324

| No. | Width Opening Inches | Height Opening Inches | Size Base Inches | Weight Oz. |
|-----|----------------------|-----------------------|------------------|------------|
| 1   | 1 1/2                | 1                     | 2 1/4 x 3        | 4          |
| 2   | 1 3/4                | 1                     | 2 5/8 x 3 3/8    | 6          |
| 3   | 2 3/8                | 1 5/8                 | 3 3/8 x 4 1/8    | 12         |

| No. | Polished Bronze Each | Nickel Plated Each | Nickel Silver Each | Chromium Plated Each |
|-----|----------------------|--------------------|--------------------|----------------------|
| 1   | \$1.20               | \$1.40             | \$1.40             | \$2.20               |
| 2   | 1.30                 | 1.50               | 1.50               | 2.30                 |
| 3   | 1.40                 | 1.70               | 1.70               | 2.50                 |

### Space Saver Ventilator

CAST BRONZE

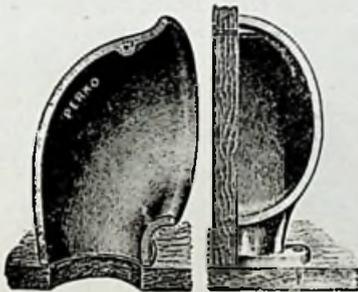


Fig. 782

Designed especially for mounting against outside of deck house or cabin, takes up very little space, can be used to advantage in connection with exhaust fan fig. 778.

| Inside Diameter at Base Inches | Inside Measurements at Mouth Inches | Extreme Height Inches | No. | Polished Bronze Per Pair | Nickel Plated Per Pair | Chrome Plated Per Pair |
|--------------------------------|-------------------------------------|-----------------------|-----|--------------------------|------------------------|------------------------|
| 2 1/2                          | 1 1/2 x 6                           | 7 1/2                 | 6   | \$4.50                   | \$5.00                 | \$10.00                |
|                                |                                     |                       | 7   |                          | \$6.50                 |                        |

### Streamline Ventilator

CAST BRONZE AND NICKEL SILVER FOR RUNABOUTS

Cast in one piece, painted green on inside, made in two sizes.



Fig. 476

| No. | Width Opening Inches | Height Opening Inches | Size Base Inches | Weight Lbs. |
|-----|----------------------|-----------------------|------------------|-------------|
| 6   | 3 1/2                | 2 3/4                 | 5 x 6            | 1           |
| 7   | 4 3/8                | 3 3/4                 | 6 x 7            | 2           |

| No. | Polished Bronze Each | Nickel Plated Each | Nickel Silver Each | Chromium Plated Each |
|-----|----------------------|--------------------|--------------------|----------------------|
| 6   | \$2.50               | \$2.75             | \$2.75             | \$3.75               |
| 7   | 3.25                 | 3.50               | 3.50               | 4.75                 |

### Seamed Hood Ventilator WITH BRONZE SCREW DECK PLATE

Constructed of heavy sheet iron or brass. Iron ventilators are completely formed and then hot galvanized.



Fig. 151

| Deck Plate Opening Inches | Opening of Mouth Inches | Height Inches |
|---------------------------|-------------------------|---------------|
| 2                         | 4                       | 5             |
| 2½                        | 5                       | 6             |
| 3                         | 6                       | 7             |
| 3½                        | 7                       | 10            |
| 4                         | 8                       | 11            |
| 4½                        | 9                       | 12            |
| 5                         | 10                      | 14            |
| 6                         | 12                      | 15            |
| 8                         | 16                      | 21            |
| 10                        | 20                      | 25            |
| 12                        | 24                      | 30            |

### Riveted Hood Ventilator WITH BRONZE SCREW DECK PLATE

Constructed of heavy gauge sheet iron, hot galvanized or brass. Riveted at the joints. Brass rim around mouth on galvanized vents, 4½ inch and smaller.



Fig. 369

| Deck Plate Opening Inches | Diam. Mouth Inches | Height Overall Inches |
|---------------------------|--------------------|-----------------------|
| 2                         | 4                  | 6                     |
| 2½                        | 5                  | 7                     |
| 3                         | 6                  | 8                     |
| 3½                        | 7                  | 9                     |
| 4                         | 8                  | 11                    |
| 4½                        | 9                  | 12                    |
| 5                         | 10                 | 13                    |
| 6                         | 12                 | 15                    |
| 8                         | 16                 | 20                    |
| 10                        | 20                 | 25                    |
| 12                        | 24                 | 30                    |

| Deck Plate Opening Inches | Galv. Iron Each | Polished Brass Each |
|---------------------------|-----------------|---------------------|
| 2                         | \$ 5.50         | \$ 7.00             |
| 2½                        | 5.60            | 7.25                |
| 3                         | 5.80            | 7.50                |
| 3½                        | 6.50            | 8.50                |
| 4                         | 7.70            | 9.00                |
| 4½                        | 10.00           | 12.00               |

| Deck Plate Opening Inches | Galv. Iron Each | Polished Brass Each |
|---------------------------|-----------------|---------------------|
| 5                         | \$12.00         | \$14.00             |
| 6                         | 16.50           | 19.00               |
| 8                         | 25.00           | 28.50               |
| 12                        | 60.00           | 69.00               |

| Deck Plate Opening Inches | Galv. Iron Each | Polished Brass Each |
|---------------------------|-----------------|---------------------|
| 2                         | \$ 8.00         | \$10.00             |
| 2½                        | 8.50            | 10.50               |
| 3                         | 9.00            | 11.00               |
| 3½                        | 10.50           | 12.50               |
| 4                         | 12.00           | 14.00               |
| 4½                        | 14.00           | 16.00               |

| Deck Plate Opening Inches | Galv. Iron Each | Polished Brass Each |
|---------------------------|-----------------|---------------------|
| 5                         | \$17.50         | \$20.00             |
| 6                         | 22.00           | 25.00               |
| 8                         | 33.00           | 38.00               |
| 12                        | 70.00           | 79.00               |

### Seamed Hood Ventilator WITH BRONZE SWIVEL DECK PLATE

Heavy sheet iron or brass. Iron vents are hot galvanized after forming. Furnished with spun brass cover for deck plate when vent is removed, at small additional charge.



Fig. 575

| Deck Plate Size Inches | Diam. Mouth Inches | Height Overall Inches |
|------------------------|--------------------|-----------------------|
| 3                      | 6                  | 7½                    |
| 4                      | 8                  | 10                    |
| 5                      | 10                 | 12½                   |
| 6                      | 12                 | 15                    |
| 8                      | 16                 | 20                    |
| 9                      | 18                 | 22½                   |
| 10                     | 20                 | 25                    |
| 12                     | 24                 | 30                    |

### Riveted Hood Ventilator WITH BRONZE SWIVEL DECK PLATE

Made of heavy gauge sheet iron, hot galvanized or brass. All joints riveted. Brass rim around mouth on galvanized vents, 4½ inch and smaller.

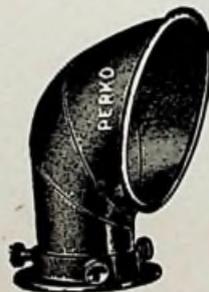


Fig. 368

| Deck Plate Size Inches | Diam. Mouth Inches | Height Overall Inches |
|------------------------|--------------------|-----------------------|
| 3                      | 6                  | 8                     |
| 4                      | 8                  | 11                    |
| 5                      | 10                 | 13                    |
| 6                      | 12                 | 15                    |
| 8                      | 16                 | 20                    |
| 9                      | 18                 | 23                    |
| 10                     | 20                 | 25                    |
| 12                     | 24                 | 30                    |

| Deck Plate Size Inches | Galv. Iron Each | Polished Brass Each |
|------------------------|-----------------|---------------------|
| 3                      | \$ 7.00         | \$ 8.65             |
| 4                      | 9.95            | 11.25               |
| 5                      | 13.25           | 15.25               |
| 6                      | 18.25           | 20.75               |

| Deck Plate Size Inches | Galv. Iron Each | Polished Brass Each |
|------------------------|-----------------|---------------------|
| 8                      | \$24.00         | \$27.50             |
| 9                      | 30.00           | 38.00               |
| 10                     | 43.00           | 51.00               |
| 12                     | 58.00           | 67.00               |

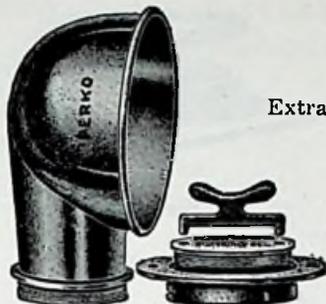
| Deck Plate Size Inches | Galv. Iron Each | Polished Brass Each |
|------------------------|-----------------|---------------------|
| 3                      | \$10.20         | \$12.20             |
| 4                      | 14.25           | 16.25               |
| 5                      | 18.75           | 21.25               |
| 6                      | 23.75           | 26.75               |

| Deck Plate Size Inches | Galv. Iron Each | Polished Brass Each |
|------------------------|-----------------|---------------------|
| 8                      | \$32.00         | \$37.00             |
| 9                      | 38.00           | 46.00               |
| 10                     | 51.00           | 59.00               |
| 12                     | 68.00           | 77.00               |

THE SIZES SHOWN ON THE ABOVE VENTILATORS ARE STANDARD. SPECIAL DIAMETERS AND LENGTHS CAN BE FURNISHED, MADE TO ORDER. SPECIAL PLATED OR PAINTED FINISHES AT SMALL ADDITIONAL CHARGE.

## Spun Ventilators

Spun from heavy gauge sheet brass or copper. Complete with cast bronze screw deck plate, cover and key.



Extra heavy

Fig. 152

| Deck Plate Size Inches | Polished Brass Each | Polished Copper Each | Diameter Mouth Inches | Height Overall Inches |
|------------------------|---------------------|----------------------|-----------------------|-----------------------|
| 2                      | \$6.00              | \$7.00               | 4                     | 6                     |
| 2½                     | 6.50                | 7.50                 | 5                     | 7                     |
| 3                      | 6.75                | 7.75                 | 6                     | 8                     |
| 3½                     | 7.50                | 8.50                 | 7                     | 9                     |
| 4                      | 8.00                | 9.00                 | 8                     | 10½                   |

## Cast Bronze Hood Ventilator

WITH SCREW DECK PLATE

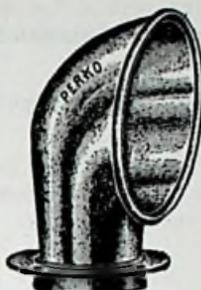


Fig. 421

A ventilator that will last longer than the boat. Highly polished on outside, painted green on inside. With cover and key for screw deck plate.

| Deck Plate Size Inches | Diam. Mouth Inches | Height Overall Inches | Net Weight Lbs. |
|------------------------|--------------------|-----------------------|-----------------|
| 3                      | 6                  | 7½                    | 4½              |
| 4                      | 8                  | 9½                    | 8½              |

## Hammered Copper Ventilators

WITH SCREW OR SWIVEL DECK PLATE

Heavy gauge sheet copper, hammered to shape by hand, hammer marks remaining in surface. With cover and key for screw deck plate.

Screw Deck Plate

Swivel Deck Plate

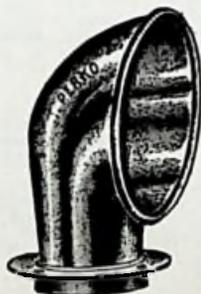


Fig. 367



Fig. 560

| Size Inches | With Screw Deck Plate Each | With Swivel Deck Plate Each | Diam. Mouth Inches | Height Overall Inches |
|-------------|----------------------------|-----------------------------|--------------------|-----------------------|
| 3           | \$17.50                    | \$20.50                     | 6                  | 8                     |
| 4           | 23.50                      | 27.50                       | 8                  | 11                    |
| 5           | 39.00                      | 43.00                       | 10                 | 13                    |
| 6           | 44.00                      | 48.00                       | 12                 | 15                    |
| 8           | 68.00                      | 70.00                       | 16                 | 20                    |

## Swivel Ventilator

OVAL MOUTH—CAST BRONZE

Made of heavy cast bronze with swivel deck plate for turning in any direction. Large thumb screw for fastening in position desired. Cast bronze cover for deck plate when vent is removed. A set screw prevents loss of thumb screw. Vent painted green on inside.



Fig. 197

Diam. bot. open., 4½ in.  
Size mouth, 6¾ x 9½ in.  
Height overall, 12¼ in.  
Diameter base, 7¾ in.  
Weight each, 19 pounds

PRICE EACH

|                |         |
|----------------|---------|
| Foundry Finish | \$16.00 |
| Polished       | 19.50   |
| Nickel Plated  | 22.50   |

## Cast Bronze Ventilator

ROUND MOUTH—SCREW DECK PLATE

Diam. bottom opening, 3 inches  
Diameter mouth, 6 inches  
Height overall, 8½ inches  
Diameter deck flange, 4¾ in.  
Weight, 5 pounds



Fig. 199

| Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |
|----------------------|--------------------|----------------------|
| \$9.75               | \$12.00            | \$16.50              |

## Swivel Ventilator

ROUND MOUTH—CAST BRONZE

Made of heavy cast bronze, swivel deck plate, thumb screw for fastening in position. Cast cover to take place of vent when removed. Set screw to prevent loss of thumb screw. Vent painted green on inside.

Diam. bottom opening, 3¼ in.  
Diameter mouth, 5¾ inches  
Height overall, 9 inches  
Diameter base, 6¼ inches  
Weight each, 11 pounds

PRICE EACH

|                 |         |
|-----------------|---------|
| Foundry Finish  | \$11.00 |
| Polished        | 13.50   |
| Nickel Plated   | 15.50   |
| Chromium Plated | 18.50   |

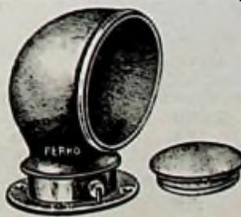


Fig. 198



## Oval Mouth Ventilators

CAST BRONZE

Of high grade castings, finely finished, green enameled interior.

The screw type is furnished complete with watertight cover and key for use when vent is removed.

The swivel type is adjustable and can be fastened in any position by three thumb screws. A brass friction cover is also furnished for use when vent is removed.

### SCREW TYPE

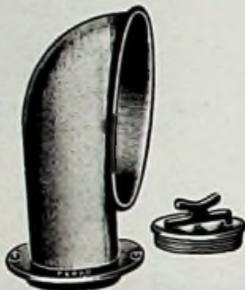


Fig. 509

| Plate Opening Inches | Plain Bronze Each | Pol. Bronze Each | Nickel Plated Each | Chrom. Plated Each | Height Above Deck Inches | Size Mouth Inches |
|----------------------|-------------------|------------------|--------------------|--------------------|--------------------------|-------------------|
| 3                    | \$ 9.50           | \$12.00          | \$13.00            | \$18.00            | 8 1/8                    | 6 1/4 x 4         |
| 4                    | 12.00             | 15.00            | 16.00              | 25.00              | 8 3/8                    | 6 1/2 x 4 3/4     |

### SWIVEL TYPE

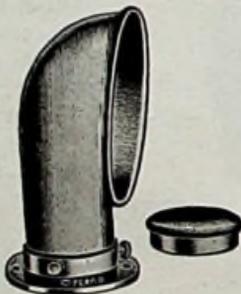


Fig. 515

| Diam. Throat Inches | Plain Bronze Each | Pol. Bronze Each | Nickel Plated Each | Chrom. Plated Each | Height Above Deck Inches | Size Mouth Inches |
|---------------------|-------------------|------------------|--------------------|--------------------|--------------------------|-------------------|
| 3                   | \$10.50           | \$13.00          | \$14.00            | \$19.00            | 9 1/8                    | 6 1/4 x 4         |
| 4                   | 13.00             | 16.00            | 17.00              | 26.00              | 9 3/8                    | 6 1/2 x 4 3/4     |

## Awning Sockets

BRONZE



Fig. 247

| Diam. Rod Inches | Price Each |             |
|------------------|------------|-------------|
|                  | Pl. Bronze | Pol. Bronze |
| 1/2              | \$ .50     | \$ .75      |
| 3/8              | .55        | .80         |
| 3/4              | .60        | .90         |
| 7/8              | .65        | .95         |
| 1                | .70        | 1.15        |

## Ice Box Ventilators

CAST BRONZE—POLISHED



Fig. 783

| No. | Price Each | Dia. of Opening Inches | Size Plate Inches |
|-----|------------|------------------------|-------------------|
| 1   | \$1.00     | 1 1/8                  | 2 1/2 x 2         |
| 2   | 1.75       | 2 1/2                  | 3 1/4 x 3         |
| 3   | 2.75       | 3                      | 4 1/8 x 4         |
| 4   | 3.50       | 3 3/8                  | 4 7/8 x 4         |

## Engine Compartment Outlet Ventilator



Fig. 329

For use on hulls of runabouts or cruisers. Made of cast bronze, highly polished, interior painted in green enamel.

| Diameter Opening Inches | Diameter Flange Inches | Weight Ounces        |
|-------------------------|------------------------|----------------------|
| 2 1/2                   | 4                      | 19                   |
| Polished Bronze Each    | Nickel Plated Each     | Chromium Plated Each |
| \$1.75                  | \$2.00                 | \$3.50               |

## Garboard Drain Plug

CAST BRONZE—PLAIN

A few of these installed in garboard allows quick drainage of boat when hauled out, by removing heavy plug. Complete with wrench for removing plug tapered thread, 1-in. pipe size. Absolutely water-tight.



Fig. 124

| Diam. Flange Inches        | Depth Inches | Weight Oz. |
|----------------------------|--------------|------------|
| 2 3/4                      | 1            | 10         |
| Complete with Wrench, Each |              | \$1.00     |



## Regular Deck Plates



Fig. 526

**CAST BRONZE**

Complete with key.

| Diam. Opening Inches | Machined Finish Complete Each | Pol. Finish Complete Each | Pol. Covers Only Each | Keys Only Each | Diameter Plate Inches |
|----------------------|-------------------------------|---------------------------|-----------------------|----------------|-----------------------|
| 1                    | \$.70                         | \$.80                     | \$.40                 | \$.10          | 2 1/2                 |
| 1 1/2                | .80                           | .90                       | .45                   | .15            | 3 1/8                 |
| 2                    | 1.10                          | 1.25                      | .65                   | .20            | 3 3/8                 |
| 2 1/2                | 1.50                          | 1.75                      | .90                   | .20            | 4 1/2                 |
| 3                    | 1.90                          | 2.25                      | 1.15                  | .25            | 4 7/8                 |
| 3 1/2                | 2.25                          | 2.60                      | 1.30                  | .30            | 5 1/2                 |
| 4                    | 2.35                          | 2.75                      | 1.40                  | .35            | 5 3/4                 |
| 4 1/2                | 3.40                          | 4.00                      | 2.00                  | .40            | 6 3/8                 |
| 5                    | 3.50                          | 4.25                      | 2.15                  | .50            | 7 1/8                 |
| 6                    | 4.75                          | 5.50                      | 2.75                  | .75            | 8 1/4                 |
| 8                    | 9.00                          | 10.50                     | 5.25                  | 1.00           | 10 1/4                |

## Swivel Rings

FOR VENTILATORS—CAST BRONZE

When used with hood ventilator, allows it to be turned in any position desired. Complete with thumb screws for fastening.



Fig. 419

| For Size Ventilator Inches | Opening in Base Inches | Price Each | For Size Ventilator Inches | Opening in Base Inches | Price Each |
|----------------------------|------------------------|------------|----------------------------|------------------------|------------|
| 3                          | 2 1/8                  | \$ 4.00    | 8                          | 7                      | \$12.00    |
| 4                          | 3 1/2                  | 6.00       | 9                          | 8 1/8                  | 14.00      |
| 5                          | 4                      | 7.50       | 10                         | 9 1/8                  | 20.00      |
| 6                          | 5                      | 9.00       | 11                         | 10 1/8                 | 22.00      |
| 7                          | 6                      | 10.00      | 12                         | 11 1/8                 | 24.00      |

## Pipe Deck Plates



Fig. 528

**CAST BRONZE**

Standard iron pipe size thread. Complete with key.

Can be furnished with words "water," "gas," "oil," "fuel," cast in cover, on all sizes up to 2 1/2 inch inclusive.

| Diam. Opening Inches | Machined Finish Complete Each | Pol. Finish Complete Each | Pol. Covers Only Each | Keys Only Each | O. D. Plate Inches |
|----------------------|-------------------------------|---------------------------|-----------------------|----------------|--------------------|
| 3/4                  | \$.90                         | \$ 1.00                   | \$.50                 | \$.10          | 2 5/8              |
| 1                    | 1.10                          | 1.25                      | .65                   | .10            | 2 7/8              |
| 1 1/4                | 1.35                          | 1.50                      | .75                   | .15            | 3 1/8              |
| 1 1/2                | 1.55                          | 1.75                      | .90                   | .15            | 3 3/4              |
| 2                    | 1.75                          | 2.00                      | 1.00                  | .20            | 4 1/4              |
| 2 1/2                | 2.25                          | 2.50                      | 1.25                  | .20            | 4 5/8              |
| 3                    | 3.25                          | 3.75                      | 1.90                  | .25            | 5 3/8              |
| 3 1/2                | 5.75                          | 6.50                      | 3.50                  | .35            | 6                  |
| 4                    | 7.50                          | 9.00                      | 4.50                  | .35            | 6 3/4              |
| 5                    | 9.50                          | 11.00                     | 6.00                  | .50            | 8                  |
| 6                    | 12.50                         | 14.00                     | 8.00                  | .80            | 9                  |

## Manhole Plates

**WATERTIGHT**

**GALVANIZED IRON AND CAST BRONZE**

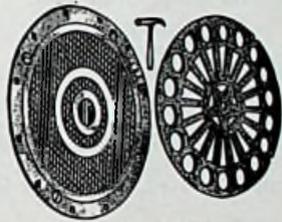


Fig. 662

Furnished complete with locking screws, key and rubber packing ring. Absolutely watertight.

| Size No. | Complete   |            | Without Grating |            | Diam. Opening Inches |
|----------|------------|------------|-----------------|------------|----------------------|
|          | Galv. Each | Brass Each | Galv. Each      | Brass Each |                      |
| 2        | \$17.00    | \$30.00    | \$13.00         | \$23.00    | 12                   |
| 3        | 21.00      | 37.00      | 16.00           | 28.00      | 14                   |
| 4        | 26.00      | 45.00      | 20.00           | 34.00      | 15 1/2               |
| 5        | 30.00      | 58.00      | 23.00           | 45.00      | 18                   |
| 6        | 34.00      | 78.00      | 26.00           | 60.00      | 20                   |

## Ventilator Deck Plates

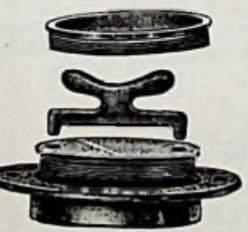


Fig. 527

**POLISHED**

**CAST BRONZE**

Complete with key and extra ring for hood ventilator.

| Diameter Opening Inches | Price Each | Diameter Plate Inches | Weight Each |
|-------------------------|------------|-----------------------|-------------|
| 2                       | \$2.00     | 3 3/8                 | 12 oz.      |
| 2 1/2                   | 2.50       | 4 1/2                 | 1 lb.       |
| 3                       | 3.10       | 4 7/8                 | 1 1/4 lbs.  |
| 3 1/2                   | 3.60       | 5 1/2                 | 1 3/4 lbs.  |
| 4                       | 4.00       | 5 7/8                 | 2 1/4 lbs.  |
| 4 1/2                   | 5.50       | 6 3/8                 | 3 1/4 lbs.  |
| 5                       | 6.00       | 7 1/8                 | 3 3/4 lbs.  |
| 6                       | 7.50       | 8 1/4                 | 4 1/2 lbs.  |
| 8                       | 15.00      | 10 1/4                | 7 1/2 lbs.  |

## Deck Plate Key

**CAST BRONZE**

**ADJUSTABLE TO ALL SIZES OF DECK PLATES**

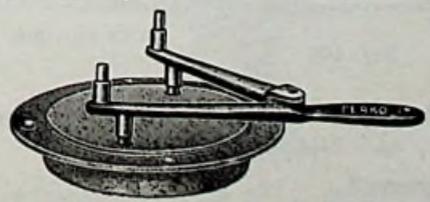


Fig. 826

Will fit all sizes of deck plates up to 10 inch diameter, making it unnecessary to have separate keys for each plate.

Price each ..... \$1.25



### Fog Horns

WITH ADJUSTABLE REED

These horns have a patented slide on the reed which controls the tone. Very easy to adjust or tune.



Fig. 162

PRICE PER DOZEN

| Length Overall Inches |                           | Tin     | Galv.   | Brass   |
|-----------------------|---------------------------|---------|---------|---------|
| 18                    | Without Bell              | \$ 7.50 | \$ 9.00 | \$14.00 |
| 20                    | With Bell, as illustrated | 8.00    | 9.50    | 15.00   |
| 24                    | With Bell, as illustrated | 9.50    | 11.00   | 17.00   |

### Midget Fog Horn

GALVANIZED OR POLISHED BRASS WITH NICKEL PLATED MOUTHPIECE



Fig. 253

It's amazing, the fine deep loud tone this small horn produces. Ideal for storing in a small space. Has slotted hole in large end for hanging on wall.

| Length Inches | Galvanized Per dozen | Polished brass Per dozen |
|---------------|----------------------|--------------------------|
| 15            | \$8.00               | \$12.00                  |

### Police or Signal Whistle

Solid brass, nickel plated, loud, clear tone.



Fig. 349

Price per dozen, \$6.00

### Triplex Motor Boat Whistle

WITH METAL MOUTHPIECE

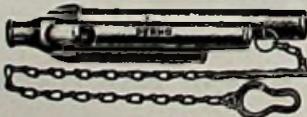


Fig. 168

All solid brass, nickel plated, loud triple tone. Complete with chain.

Length overall, 6½ in.

Price per doz. \$11.40

### Duplex Motor Boat Whistle

ALL BRASS—NICKEL PLATED

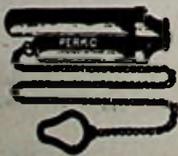


Fig. 167

A whistle is required by law on onboard motor boats. Loud double tone. Brass, nickel plated mouthpiece. Complete with chain.

Length overall, 3½ inches

Price per dozen \$9.00

### Air Whistles

ALL CAST BRONZE



Fig. 825

A very powerful whistle operated by compressed air its tone is clear cut and sharply defined, has remarkable echoing and fog penetrating qualities. Contains a diaphragm of non-corrosive metal which vibrates when the air enters into the pipe. Nothing to wear out as the only mobile part is the diaphragm. The number 1 whistle operates on a minimum of 10 lbs. pressure and the number 2 on 20 lbs. pressure. The sound projector is polished, and the balance is finished bronze.

A special feature of this whistle is the bronze base for mounting, which contains the pipe connection and an inlet in its vertical post, through the under part of the base.

The tone is easily regulated by turning the projector to right or left, a brass key is furnished for the fastening device which holds projector in position.

| No. | Price Each | Diameter of Disc Inches | Diameter Base Inches | Length Overall Inches | For Size Pipe Inches |
|-----|------------|-------------------------|----------------------|-----------------------|----------------------|
| 1   | \$10.00    | 3                       | 3                    | 5¾                    | ¾                    |
| 2   | 17.50      | 4                       | 3½                   | 8¾                    | ¾                    |

### Whistle Valves

FOR AIR WHISTLES CAST BRONZE—PLAIN

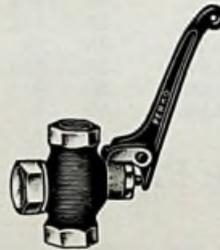


Fig. 463

A very fine fool-proof air whistle valve made of cast bronze with stainless steel valve spring.

Guaranteed for air pressure up to 200 lbs.

| Pipe Size Inches | Each \$3.50 |
|------------------|-------------|
| ¾                |             |

### Two Tone Signal Horns

Solid brass. Very loud, double tone. Blown by mouth. Easily taken apart.

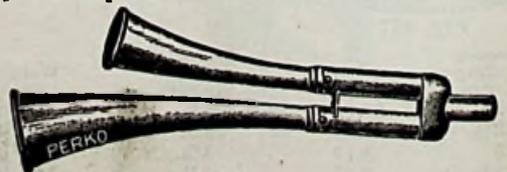


Fig. 165

PRICE PER DOZEN

| Length Overall Inches | Polished Brass | Nickel Plated |
|-----------------------|----------------|---------------|
| 10                    | \$26.00        | \$30.00       |



## ELECTRIC MARINE HORNS

WATERTIGHT—SPLASH PROOF—6, 12 OR 32 VOLTS

These horns are of the highest quality of materials and are especially designed for marine use. A loud, penetrating tone quality superior to any other horn on the market. The "mile-away" and "clear-way" models were developed especially for the U. S. Navy and Coast Guard requirements and are the only American-made horns that pass these requirements. The tone quality of these horns is governed by the remarkable simplicity of construction and the quality of the diaphragm which is of chrome vanadium spring steel.

### Clear-Way Horn

All brass, highly polished or chromium plated, furnished complete with push button and cast deck bracket.

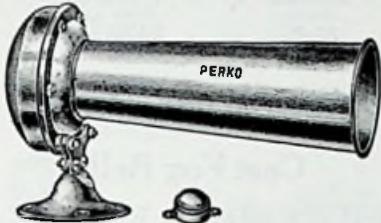


Fig. 73

| Length Overall Inches | Height Overall Inches | Diam. Base Inches | Polished Brass Each | Chromium Plated Each |
|-----------------------|-----------------------|-------------------|---------------------|----------------------|
| 13                    | 7 1/4                 | 3 3/8             | \$10.00             | \$13.00              |

For 32 volt equipment add \$3.00.

### Mile-Away Horn

All brass, highly polished or chromium plated. Furnished complete, with push button and cast deck bracket.

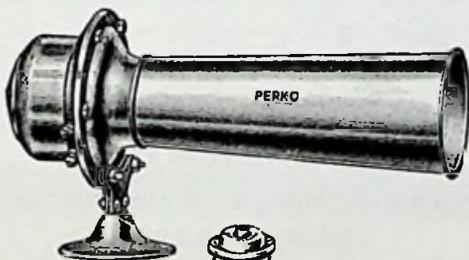


Fig. 75

| Length Overall Inches | Height Overall Inches | Diam. Base Inches | Polished Brass Each | Chromium Plated Each |
|-----------------------|-----------------------|-------------------|---------------------|----------------------|
| 13 3/4                | 8 1/2                 | 3 3/8             | \$21.00             | \$25.00              |

For 32 volt equipment add \$3.00.

### "Perko" Full Tone Whistle

Made of solid brass, nickel plated. Blown by mouth or can be attached to compressed air tank or steam pipe by removing mouthpiece. Standard pipe thread, 1/2 inch.

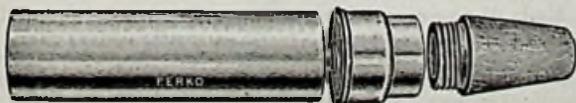


Fig. 164

| Pol. Brass Per Dozen | Nickel Plated Per Dozen | Size Inches   |
|----------------------|-------------------------|---------------|
| \$25.20              | \$26.40                 | 1 1/8 x 6 3/4 |

### Junior Siren

ELECTRIC HIGH SPEED MOTOR

All exposed parts made of brass. Other parts cadmium plated. A powerful and distinctive tone that can be heard under worst atmospheric conditions for a distance of over 1,000 yards. Furnished complete with deck bracket, push button and 10 feet of cable.

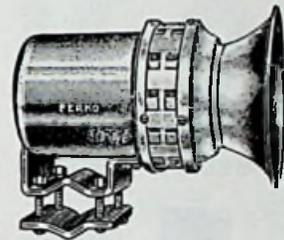


Fig. 192

| Length Overall Inches | Height Overall Inches | Diam. Base Inches | Polished Brass Each | Chrom. Plated Each |
|-----------------------|-----------------------|-------------------|---------------------|--------------------|
| 7 1/2                 | 5 3/4                 | 3 3/8             | \$14.00             | \$15.00            |

For 32 volt equipment add \$3.50.

### Senior Siren

ELECTRIC HIGH SPEED MOTOR

This type distributes its sound over a radius of more than 1,000 yards. Extremely practical in fog. All exposed parts made of brass. Other parts cadmium plated. Furnished complete with push button and 10 foot cable.



Fig. 193

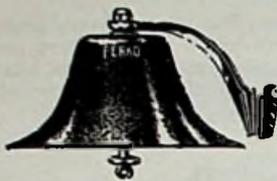
| Height Overall Inches | Diam. Inches | Polished Brass Each | Chromium Plated Each |
|-----------------------|--------------|---------------------|----------------------|
| 11 1/2                | 6 3/8        | \$15.00             | \$16.50              |

For 32 volt equipment add \$3.50.



### Wrought Brass Fog Bells

STAMPED FROM BELL METAL



Diameter 6 in. 8 in.  
Hgt. overall 4 in. 5 in.  
Extension 7 7/8 in. 8 3/4 in.  
Weight 1 lb. 2 1/2 lbs.

Fig. 159

| Diam. Inches | Plain Brass Each | Polished Brass Each | Nickel Plated Each | Chromium Plated Each |
|--------------|------------------|---------------------|--------------------|----------------------|
| 6            | \$1.10           | \$1.25              | \$1.75             | \$4.25               |
| 8            | 1.95             | 2.15                | 2.65               | 5.00                 |

### Cast Fog Bell

LIGHTWEIGHT



Cast from bell metal. With removable bracket.

Diameter 6 in. 8 in.  
Hgt. overall 4 1/2 in. 5 1/2 in.  
Extension 6 1/2 in. 8 1/2 in.  
Weight 1 1/2 lbs. 4 1/2 lbs.

Fig. 581

| Diam. Inches | Polished Each | Nickel Plated Each | Chromium Plated Each |
|--------------|---------------|--------------------|----------------------|
| 6            | \$2.55        | \$3.55             | \$6.00               |
| 8            | 4.30          | 5.30               | 7.90                 |

### Cast Fog Bell

MEDIUM WEIGHT



Cast from high grade bell metal. Highly polished detachable bracket.

Diameter 6 in. 8 in.  
Hgt. overall 5 in. 6 1/2 in.  
Extension 6 3/4 in. 8 1/2 in.  
Weight 3 1/2 lbs. 6 1/2 lbs.

Fig. 420

| Diam. Inches | Polished Each | Nickel Plated Each | Chromium Plated Each |
|--------------|---------------|--------------------|----------------------|
| 6            | \$5.20        | \$6.20             | \$ 8.50              |
| 8            | 8.85          | 9.85               | 12.00                |

### Cast Fog Bell

MEDIUM WEIGHT—WITH YOKE



Fig. 386

| Diam. Inches | Polished Each | Nickel Plated Each | Chromium Plated Each | Height Overall Inches | Weight Pounds |
|--------------|---------------|--------------------|----------------------|-----------------------|---------------|
| 6            | \$5.70        | \$ 6.70            | \$ 9.00              | 7 1/4                 | 4             |
| 8            | 9.35          | 10.35              | 13.50                | 9                     | 9             |

### Air-tone Marine Horns

POWERFUL TONE OF AN AIR WHISTLE  
CHROMIUM PLATED

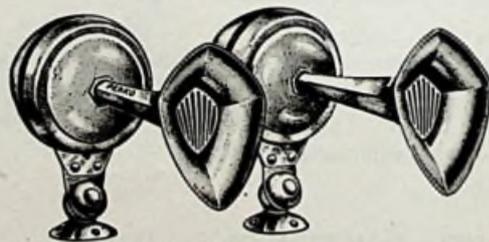


Fig. 808

These matched tone electric horns are the most powerful motor driven horns on the market, used and sold only in pairs, they give a volume of sound equal to an air whistle.

Made of noncorrosive metal, heavily chromium plated, motor and vibrator are fully enclosed and watertight.

Furnished complete with push button and marine relay which eliminates all loss of operating current regardless of how far horns are placed from battery.

Largest diameter, 6 inches; length overall, 13 1/2 inches.

Price per pair, 6 or 12 volt ..... \$27.00  
Price per pair, 32 volt ..... 34.00

### Cast Fog Bell

HEAVY WEIGHT



Cast from extra heavy bell metal. Complete with removable bracket.

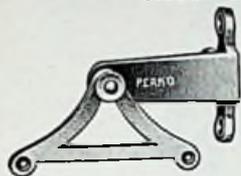
Diameter 8 in. 10 in.  
Height 8 in. 10 1/2 in.  
Projection 9 in. 12 in.  
Weight 10 lbs. 19 lbs.

Fig. 150

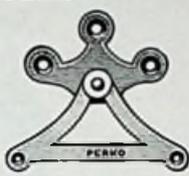
| Diam. Inches | Polished Each | Nickel Plated Each | Chromium Plated Each |
|--------------|---------------|--------------------|----------------------|
| 8            | \$13.00       | \$14.50            | \$19.00              |
| 10           | 24.00         | 25.50              | 32.00                |

## Bell Cranks

CAST BRONZE—PLAIN



Upright Type—Fig. 910



Side Type—Fig. 911

| No. | Upright Type Each | Side Type Each | Length of Crank Inches |
|-----|-------------------|----------------|------------------------|
| 1   | \$ .60            | \$ .50         | 3                      |
| 2   | .90               | .60            | 3 1/4                  |
| 3   | 1.20              | .75            | 3 3/4                  |

## Bell Chain Leaders

CAST BRONZE—PLAIN



Upright Type—Fig. 912



Flat Type—Fig. 913

| Diam. Sheave Inches | Width of Groove Inches | Single Sheave Each | Double Sheave Each | Triple Sheave Each | Quadruple Sheave Each |
|---------------------|------------------------|--------------------|--------------------|--------------------|-----------------------|
| 2                   | 1/4                    | \$1.00             | \$1.50             | \$2.50             | \$3.50                |
| 3 1/2               | 3/8                    | 1.75               | 2.25               | 3.50               | 5.00                  |

## Brass Telegraph or Bell Chain

Links are stamped from heavy gauge brass, fastened together by brass rivets, which are finished flush with side of link. Furnished in any continuous length desired.

Made to comply with U. S. Navy Specifications.



Fig. 275

| Price Per Foot | Length of Links Inches | Thickness Overall Inches | Weight per Foot Ounces |
|----------------|------------------------|--------------------------|------------------------|
| \$ .50         | 3/4                    | 1/32                     | 3 1/2                  |

## Deck Lights

CAST BRONZE—FOR WOOD DECKS



Fig. 838

| Size of Clear Glass Inches | Plain Each | Pol. Each | Thickness of Glass Inches | Diam. of Frame Inches | Wt. Each l.bs. |
|----------------------------|------------|-----------|---------------------------|-----------------------|----------------|
| 3 1/2                      | \$2.75     | \$3.75    | 3/8                       | 5 3/4                 | 1 1/4          |
| 4                          | 3.00       | 4.00      | 3/8                       | 6 1/2                 | 2              |
| 5                          | 3.75       | 5.00      | 1/2                       | 7 1/2                 | 3              |
| 6                          | 4.50       | 5.75      | 1/2                       | 9                     | 3 3/4          |
| 7                          | 6.50       | 8.00      | 3/4                       | 10                    | 6              |
| 8                          | 8.25       | 10.25     | 3/4                       | 11                    | 9              |

## Letters and Figures

CAST BRONZE  
REGULAR PATTERN

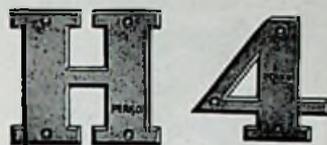


Fig. 348

| Height Inches | Plain Bronze Each | Pol. Bronze Each | Nickel Plated Each | Chrom. Plated Each | Weight Per 100 in Lbs. |
|---------------|-------------------|------------------|--------------------|--------------------|------------------------|
| 2             | \$ .15            | \$ .25           | \$ .35             | \$ .55             | 6 1/2                  |
| 3             | .20               | .30              | .45                | .75                | 24 1/4                 |
| 4             | .50               | .75              | 1.00               | 1.25               | 36                     |

GOTHIC PATTERN



Fig. 313

| Height Inches | Plain Bronze Each | Polished Bronze Each | Nickel Plated Each | Chrom. Plated Each | Weight Per 100 in Lbs. |
|---------------|-------------------|----------------------|--------------------|--------------------|------------------------|
| 3             | \$ .25            | \$ .35               | \$ .45             | \$ .75             | 18                     |

## Gas Tank Caps and Flanges

CAST BRONZE



Fig. 595

| Threaded for Pipe Inches | Length Overall Inches | Diam. Flange Inches   | Inside Diam. Flange Inches | Weight Complete Lbs. |
|--------------------------|-----------------------|-----------------------|----------------------------|----------------------|
| 1 1/2                    | 8                     | 3 3/8                 | 1 1/8                      | 2                    |
| Polished Bronze Per Set  |                       | Nickel Plated Per Set | Chromium Plated Per Set    |                      |
| \$2.00                   |                       | \$2.50                | \$3.75                     |                      |

## Self Locking Gas Tank Cap

CAST BRONZE



Fig. 520

A half turn will open or lock cap in an instant. Locking device is indicated at A. Interior of neck below flange is threaded for 1 1/2 inch pipe.

| Diameter Opening Inches | Diameter Flange Inches | Height Closed Inches    | Weight Complete Pounds |
|-------------------------|------------------------|-------------------------|------------------------|
| 1 1/2                   | 3 3/8                  | 1 1/4                   | 1 1/4                  |
| Polished Bronze Per Set | Nickel Plated Per Set  | Chromium Plated Per Set |                        |
| \$2.00                  | \$2.50                 | \$3.75                  |                        |

### Round Portlights

GALVANIZED IRON AND CAST BRONZE  
NEW STYLE—IMPROVED  
GLASS AREA IS SAME DIAMETER AS OPENING

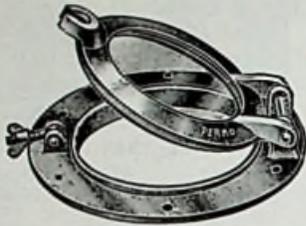


Fig. 317

### Round Frames for Portlight Glass

CAST BRONZE

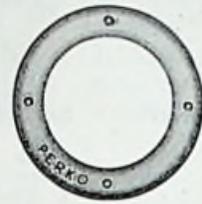


Fig. 71

| Diam. Opening Inches | Galv. Each | Plain Brass Each | Pol. Brass Each | Diam. Glass in Clear Inches | Thickness of Glass Inches | Inside Diam. | Outside Diam. | Plain Bronze Each | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |
|----------------------|------------|------------------|-----------------|-----------------------------|---------------------------|--------------|---------------|-------------------|----------------------|--------------------|----------------------|
| 3                    | \$2.75     | \$3.00           | \$5.00          | 3                           | 1/4                       | 3 7/8        | 5 3/4         | \$ .55            | \$1.00               | \$1.40             | \$2.00               |
| 4                    | 3.00       | 3.25             | 6.00            | 4                           | 1/4                       | 4 3/8        | 6 1/4         | .60               | 1.10                 | 1.50               | 2.10                 |
| 5                    | 3.75       | 4.50             | 7.25            | 5                           | 3/8                       | 4 7/8        | 6 3/4         | .65               | 1.25                 | 1.75               | 2.40                 |
| 6                    | 4.50       | 5.25             | 8.00            | 6                           | 3/8                       | 5 1/4        | 7 1/4         | .70               | 1.50                 | 2.10               | 2.75                 |
| 7                    | 6.25       | 7.00             | 10.00           | 6                           | 1/2                       | 5 3/4        | 8             | 1.00              | 1.85                 | 2.45               | 3.10                 |
| 8                    | 7.75       | 8.50             | 12.50           | 7                           | 1/2                       | 6 1/4        | 8 1/2         | 1.30              | 2.25                 | 2.85               | 3.60                 |
| 9                    | 10.25      | 11.50            | 16.50           | 8                           | 1/2                       | 7 1/4        | 9 3/4         | 1.65              | 2.75                 | 3.45               | 4.25                 |
| 10                   | 12.50      | 14.00            | 20.00           | 8                           | 3/8                       | 8 1/4        | 11 1/4        | 2.00              | 3.25                 | 4.00               | 5.00                 |
| 12                   | 19.00      | 21.00            | 30.00           | 10 1/4                      | 1/2                       | 9 1/4        | 12 1/4        | 2.50              | 3.75                 | 4.75               | 5.75                 |
|                      |            |                  |                 |                             |                           | 10 1/4       | 13 1/4        | 3.00              | 5.00                 | 6.00               | 7.00                 |

9 and 10 inch have Two Fastenings

12 inch have Three Fastenings

### MORE-AIR PORTLIGHTS

INSIDE PATTERN—FOR WOOD HULLS  
CAST BRONZE—PLAIN AND POLISHED  
COMPLETE WITH OUTSIDE FINISHING RING  
GLASS AREA IS SAME DIAMETER AS OPENING

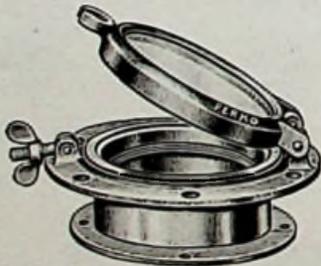
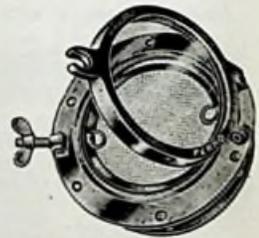


Fig. 157

Showing Screen in Place



| Opening Inches | For Thickness of Wood |               |            |               |            |               |            |               |
|----------------|-----------------------|---------------|------------|---------------|------------|---------------|------------|---------------|
|                | 1 1/2 Inch            |               | 3 Inch     |               | 4 1/2 Inch |               | 8 Inch     |               |
|                | Plain Each            | Polished Each | Plain Each | Polished Each | Plain Each | Polished Each | Plain Each | Polished Each |
| 4              | \$4.50                | \$6.00        | \$5.25     | \$6.75        | \$6.00     | \$7.50        | \$6.75     | \$8.25        |
| 5              | 5.25                  | 7.25          | 6.00       | 8.00          | 6.75       | 8.75          | 7.50       | 9.50          |
| 6              | 6.50                  | 8.75          | 7.25       | 9.50          | 8.25       | 10.50         | 9.50       | 11.75         |
| 7              | 8.25                  | 11.00         | 9.50       | 12.25         | 10.75      | 13.50         | 12.00      | 14.75         |
| 8              | 10.75                 | 13.75         | 12.00      | 15.00         | 13.75      | 16.75         | 15.75      | 18.75         |
| 9              | 14.00                 | 17.75         | 15.50      | 19.25         | 17.75      | 21.50         | 20.00      | 23.75         |
| 10             | 17.50                 | 23.00         | 20.25      | 25.75         | 23.50      | 29.00         | 27.00      | 32.50         |
| 12             | 23.50                 | 33.00         | 26.75      | 36.25         | 31.00      | 40.50         | 35.75      | 45.25         |

For 1 inch wood, use 1 1/2 inch price. For 2 or 2 1/2 inch wood use 3 inch price, etc.

Without outside finishing ring, deduct from above prices the following:

|          | 4 Inch | 5 Inch | 6 Inch | 7 Inch | 8 Inch | 9 Inch | 10 Inch | 12 Inch |
|----------|--------|--------|--------|--------|--------|--------|---------|---------|
| Plain    | \$ .45 | \$ .55 | \$ .65 | \$ .80 | \$1.00 | \$1.50 | \$2.00  | \$2.50  |
| Polished | .60    | .75    | .85    | 1.10   | 1.35   | 2.00   | 2.75    | 3.25    |

## Oval Portlights

INSIDE PATTERN—WITH DEEP COLLAR  
CAST BRONZE

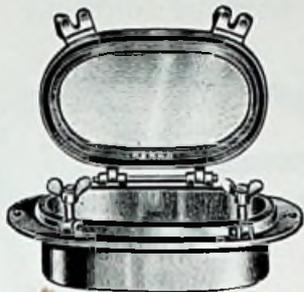


Fig. 907

COMPLETE WITH OUTSIDE FINISHING RING

### PLAIN BRONZE

| Size<br>Opening<br>Inches | For Thickness of Wood |                |                    |                |
|---------------------------|-----------------------|----------------|--------------------|----------------|
|                           | 1 1/2 Inch<br>Each    | 2 Inch<br>Each | 2 1/2 Inch<br>Each | 3 Inch<br>Each |
| 4 x 7                     | \$ 8.50               | \$ 9.50        | \$10.50            | \$11.50        |
| 5 x 9                     | 11.00                 | 13.00          | 15.00              | 17.00          |
| 6 3/4 x 12                | 18.00                 | 21.00          | 24.00              | 27.00          |

### POLISHED BRONZE

| Size<br>Opening<br>Inches | For Thickness of Wood |                |                    |                |
|---------------------------|-----------------------|----------------|--------------------|----------------|
|                           | 1 1/2 Inch<br>Each    | 2 Inch<br>Each | 2 1/2 Inch<br>Each | 3 Inch<br>Each |
| 4 x 7                     | \$11.00               | \$12.00        | \$13.00            | \$14.00        |
| 5 x 9                     | 14.50                 | 16.50          | 18.50              | 20.50          |
| 6 3/4 x 12                | 23.00                 | 26.00          | 29.00              | 34.00          |

WITHOUT OUTSIDE FINISHING RING DEDUCT  
FROM ABOVE

| Size       | Plain  | Polished |
|------------|--------|----------|
| 4 x 7      | \$ .50 | \$ .75   |
| 5 x 9      | .75    | 1.25     |
| 6 3/4 x 12 | 1.00   | 1.50     |

## Galvanized Inside Portlights

CAST IRON—WITH FINISHING RING

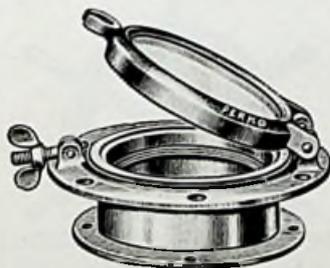


Fig. 265

| Opening<br>Inches | For Thickness of Wood |                |                    |
|-------------------|-----------------------|----------------|--------------------|
|                   | 1 1/2 Inch<br>Each    | 2 Inch<br>Each | 2 1/2 Inch<br>Each |
| 5                 | \$4.50                | \$4.65         | \$4.80             |
| 6                 | 5.50                  | 5.75           | 5.90               |
| 7                 | 7.25                  | 7.55           | 7.75               |
| 8                 | 9.25                  | 9.65           | 9.90               |

WITHOUT OUTSIDE FINISHING RING DEDUCT  
FROM ABOVE

| 5 Inch Size<br>Each | 6 Inch Size<br>Each | 7 Inch Size<br>Each | 8 Inch Size<br>Each |
|---------------------|---------------------|---------------------|---------------------|
| \$ .50              | \$ .50              | \$ .75              | \$ .75              |

## Wing Nuts for Portlights

| For Diam.<br>Bolt<br>Inches | Plain<br>Brass<br>Each | Polished<br>Brass<br>Each | For Diam.<br>Bolt<br>Inches | Plain<br>Brass<br>Each | Polished<br>Brass<br>Each |
|-----------------------------|------------------------|---------------------------|-----------------------------|------------------------|---------------------------|
| 1/8                         | \$ .10                 | \$ .20                    | 1/2                         | \$ .25                 | \$ .45                    |
| 3/8                         | .10                    | .20                       | 5/8                         | .30                    | .50                       |
| 1/2                         | .20                    | .35                       | 3/4                         | .30                    | .50                       |

## Air Scoops for Portlights

GALVANIZED OR POLISHED BRASS  
WITH OR WITHOUT SCREENS



Fig. 153

| Open-<br>ing of<br>Port-<br>light<br>Inches | Galvanized                |                        | Polished Brass            |                        |
|---|---------------------------|------------------------|---------------------------|------------------------|
|   | Without<br>Screen<br>Each | With<br>Screen<br>Each | Without<br>Screen<br>Each | With<br>Screen<br>Each |
| 3   | \$1.50                    | \$2.50                 | \$2.50                    | \$3.50                 |
| 4   | 1.80                      | 2.80                   | 2.90                      | 3.90                   |
| 5   | 2.10                      | 3.10                   | 3.30                      | 4.30                   |
| 6   | 2.40                      | 3.65                   | 3.70                      | 4.95                   |
| 7   | 2.70                      | 3.95                   | 4.10                      | 5.35                   |
| 8   | 3.00                      | 4.25                   | 4.50                      | 5.75                   |
| 9   | 3.30                      | 4.55                   | 4.90                      | 6.15                   |
| 10  | 3.60                      | 4.85                   | 5.30                      | 6.55                   |
| 11  | 3.90                      | 5.40                   | 5.75                      | 7.25                   |
| 12  | 4.30                      | 5.80                   | 6.25                      | 7.75                   |

Screens are soldered into scoops.

## Oval Portlight Screens

BRASS FRAME—COPPER MESH



Fig. 909

| Opening<br>of Portlight<br>Inches | Price<br>Each |
|-----------------------------------|---------------|
| 4 x 7                             | \$1.25        |
| 5 x 9                             | 1.50          |
| 6 3/4 x 12                        | 2.50          |

## Shallow Portlight Screens

SPUN BRASS FRAME—COPPER MESH  
FOR RECESSED PORTLIGHTS, FIG. 157



Fig. 434

| Size<br>Port<br>Light<br>Inches | Price<br>Each | Size<br>Port<br>Light<br>Inches | Price<br>Each |
|---------------------------------|---------------|---------------------------------|---------------|
| 4                               | \$1.00        | 10                              | \$2.10        |
| 5                               | 1.10          | 12                              | 2.35          |
| 6                               | 1.30          | 14                              | 2.50          |
| 7                               | 1.50          | 16                              | 3.00          |
| 8                               | 1.70          | 18                              | 3.50          |
| 9                               | 1.90          | 20                              | 3.75          |

Exact size of screen. Add 1/8 inch to above sizes.

## Beaded Portlight Screens

SPUN BRASS FRAME—COPPER MESH

Frame tapered for variation in size of opening in  
portlight, wire enclosed bead around edge.



Fig. 154

| Size<br>Port<br>Light<br>Inches | Price<br>Each | Size<br>Port<br>Light<br>Inches | Price<br>Each |
|---------------------------------|---------------|---------------------------------|---------------|
| 3                               | \$1.25        | 10                              | \$3.75        |
| 4                               | 1.50          | 11                              | 4.00          |
| 5                               | 1.75          | 12                              | 4.25          |
| 6                               | 2.00          | 14                              | 5.50          |
| 7                               | 2.25          | 16                              | 6.50          |
| 8                               | 2.60          | 18                              | 7.50          |
| 9                               | 3.25          | 20                              | 8.50          |

NOTE—Can be furnished with galvanized frame in  
all sizes. Price on application.

NOTE—Above Scoops and Screens are made to order  
and return of same will not be accepted.

Please give exact diameter of opening in port light.



### Racing Outboard Steerer

WITH REMOTE THROTTLE CONTROL AND CUTOUT

Genuine Husted hard rubber wheel with one-piece steel core. Base, drum and control fittings are of silicon aluminium (salt water resisting), strong and sturdy, but light in weight. A strong bronze friction arrangement in base prevents control from accidental turning while wheel is in operation. A spring terminal is provided for motor shut-off. Steerer is furnished complete with 10 feet of Bowden wire and fittings.

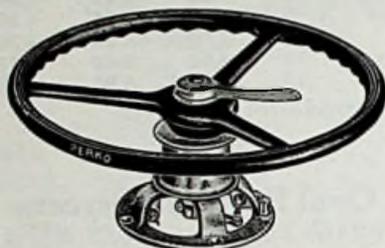


Fig. 447

| Diam. Wheel Inches | Diam. Base Inches | Height Overall Inches | Weight Pounds | Price Each |
|--------------------|-------------------|-----------------------|---------------|------------|
| 16 3/4             | 7 1/8             | 6 1/2                 | 8 1/2         | \$11.50    |

### Runabout Steerer

IMPROVED DASH TYPE WITH THROTTLE AND CHOKE CONTROLS

Genuine Husted hard rubber wheel with one-piece steel core. An adjustable dash bracket which can be fitted on either side of dash board at any angle desired. Adjustable collar allows dash bracket to be placed wherever needed on steerer shaft. A supporting bracket for lower end of steerer can be attached to most suitable place in the boat. Throttle control on wheel complete with 10 feet control casing and wire. Choke control in center of wheel with 14 feet of control casing and wire concealed in hollow shaft. This steerer furnished of all bronze or all aluminum construction, except drum, which is aluminum in either case. Furnished complete with bowden wire.

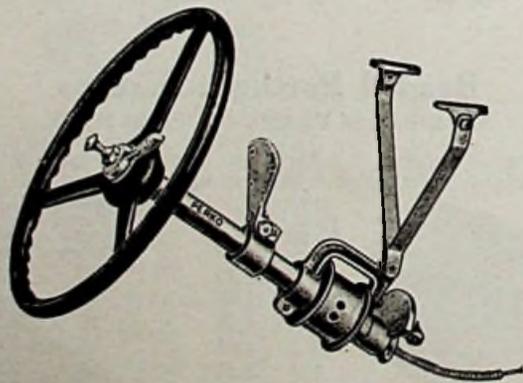


Fig. 448

| Diam. Wheel Inches | Length Overall Inches | Size Dash Bracket Inches | Diam. Drum Inches | Weight Bronze Pounds |
|--------------------|-----------------------|--------------------------|-------------------|----------------------|
| 16 3/4             | 17 3/4                | 4x4x1 1/2                | 3                 | 15                   |

Polished Bronze—without Choke Control ..... Each \$16.00  
 Polished Bronze—with Choke Control ..... 18.00  
 Bronze, Exposed Parts, Nickel Plated, add \$1.00 each

### Improved Racing Steerer

HARD RUBBER STEEL CORED WHEEL WITHOUT CONTROLS



Fig. 737

The main features of this steerer are, strength combined with lightness of weight, hard rubber steel cored wheel and salt water resisting aluminum casings, larger diameter drum, allowing faster steering action, and reduction of overall height to a minimum.

Designed principally for use in the popular class B and C outboard motor boats.

| Diameter Wheel Inches | Height Overall Inches | Diam. Base Inches | Diam. Drum Inches | Price Each |
|-----------------------|-----------------------|-------------------|-------------------|------------|
| 16 3/4                | 5                     | 7 1/4             | 4                 | \$9.00     |

### Mahogany Steering Wheels

CAST BRONZE HUB

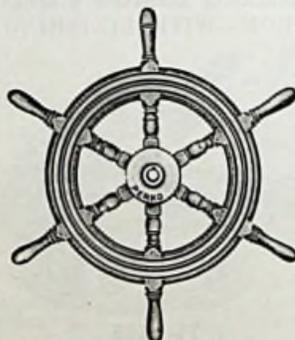


Fig. 657

| Diam. Overall Inches | With Plugged Rim Each | With Inlaid Rim Each | With Brass Cheek Each | For Shaft Diameter Inches | Thickness of Hub Inches | Size Keyw. Inches |
|----------------------|-----------------------|----------------------|-----------------------|---------------------------|-------------------------|-------------------|
| 20                   | \$25.00               | \$25.00              | \$33.00               | 1                         | 2                       | 1/4               |
| 24                   | 30.50                 | 31.20                | 36.50                 | 1                         | 2                       | 1/4               |
| 26                   | 33.00                 | 37.00                |                       | 1                         | 2 1/4                   | 1/4               |
| 28                   | 35.00                 | 40.00                | 44.50                 | 1                         | 2 1/4                   | 1/4               |
| 30                   | 39.00                 | 42.00                | 48.50                 | 1                         | 2 1/4                   | 1/4               |
| 32                   | 43.50                 | 48.00                | 65.00                 | 1 1/8                     | 2 1/4                   | 5/8               |
| 34                   | 46.50                 | 51.00                | 74.00                 | 1 1/8                     | 2 1/4                   | 5/8               |
| 36                   | 67.00                 | 66.60                | 85.00                 | 1 1/4                     | 2 3/8                   | 5/8               |
| 42                   | 73.00                 | 81.50                | 100.00                | 1 1/4                     | 2 3/8                   | 5/8               |
| 48                   | 86.00                 | 92.50                |                       | 1 3/8                     | 2 3/8                   | 3/8               |

All above wheels are measured from end to end of grips.

Above wheels with drum and stand furnished promptly to order.





**Bronze Steerers**  
**MAHOGANY DRUM AND GRIPS**  
**CAST BRONZE BRACKET**



| Size Base Inches | Diam. Drum Inches | Length Drum Inches |
|------------------|-------------------|--------------------|
| 3 3/8 x 3 3/8    | 2 3/8             | 3                  |
| 4 x 4            | 2 3/8             | 3 3/8              |
| 5 1/8 x 5 1/8    | 3 3/8             | 4 3/8              |
| 5 3/4 x 5 3/4    | 4                 | 6                  |

Fig. 660

| Diam. Inches | Pol. Bronze Each | Handles Only Each | Handle Bolts Each | Drums Only Each | Base With Post Each | Nuts Only Each |
|--------------|------------------|-------------------|-------------------|-----------------|---------------------|----------------|
| 12           | \$ 6.50          | \$ .12            | \$ .20            | \$ .40          | \$ 1.50             | \$ .60         |
| 16           | 8.50             | .12               | .20               | .80             | 2.00                | .60            |
| 20           | 17.00            | .15               | .40               | 1.60            | 4.00                | .75            |

**Steering Wheels**

GALVANIZED MALLEABLE IRON AND CAST BRONZE  
 MAHOGANY DRUM AND GRIPS  
 HEAVY PATTERN



Fig. 661

| Size Base Inches | Diam. Drum Inches | Length Diam. Inches |
|------------------|-------------------|---------------------|
| 3 3/8 x 3 3/8    | 2 3/8             | 3                   |
| 4 x 4            | 2 3/8             | 3 3/8               |
| 5 1/8 x 5 1/8    | 3 3/8             | 4 5/8               |
| 5 3/4 x 5 3/4    | 4                 | 6                   |

| Diam. Inches | Galvanized Each | Bronze Each |
|--------------|-----------------|-------------|
| 12           | \$ 3.00         | \$ 6.50     |
| 16           | 4.40            | 8.50        |
| 20           | 8.75            | 17.00       |
| 25           | 16.00           |             |

Outer edges of Bronze Wheels are Polished. Inside surfaces are in Foundry Finish.

**Bronze Steering Wheels**

POLISHED—HEAVY TYPE  
 USED ON FIG. 674 CHAIN TYPE STEERER

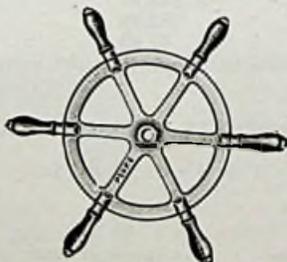
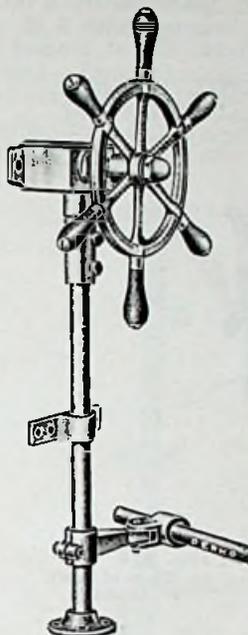


Fig. 976

| Diam. Inches | Each    | For Diam. Shaft Inches | Length Hub Inches | Keyway Inches |
|--------------|---------|------------------------|-------------------|---------------|
| 16           | \$ 5.00 | 7/8                    | 1 1/8             | 1/4           |
| 20           | 7.50    | 7/8                    | 1                 | 1/4           |
| 25           | 11.50   | 1                      | 1 1/4             | 1/4           |

**Bronze Worm Geared Steerer**



Worm type gears enclosed in cast bronze case produce powerful action remarkably smooth in operation and insures easy steering, 1 1/4 turns of the wheel obtains 45 degree angle of rudder.

Worm type gears automatically "lock" the rudder in desired position until wheel is turned to change course.

Wheel is of heavy cast bronze, highly polished, with hardwood handles.

Wheel shaft is 1 inch diameter bronze rod and all fittings are for 1 inch diam. rod.

Fig. 820

|  |         |
|--|---------|
| Complete as illustrated except shafting, with 20 inch bronze wheel | \$37.25 |
| With 24 inch bronze wheel  | 41.25   |
| Steerer only, without wheel, shafting or other fittings            | 16.00   |
| 20 inch bronze wheel only  | 12.00   |
| 24 inch bronze wheel only  | 16.00   |
| Lower lever with clevis  | 4.75    |
| Bulkhead bracket only  | 2.25    |
| Floor plate only   | 2.25    |

**Lever with Clevis**

CAST BRONZE—FOR 1 INCH ROD



Fig. 978

| Complete Each | Lever Only Each | Clevis Only Each | Length Overall Inches |
|---------------|-----------------|------------------|-----------------------|
| \$4.75        | \$3.00          | \$1.75           | 10 1/4                |

**Galvanized Steering Wheels**

WITH WOOD HANDLES, BRONZE TIPS

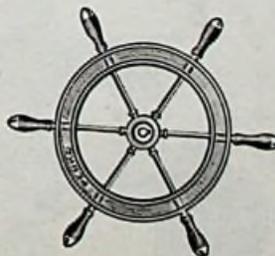


Fig. 977

| Diam. Inches | Each    | Number Spokes | For Diam. Shaft Inches | Length Hub Inches | Est. Wt. Each in Lbs. |
|--------------|---------|---------------|------------------------|-------------------|-----------------------|
| 20           | \$12.50 | 6             | 1 1/8                  | 2 3/8             | 9                     |
| 22           | 15.50   | 6             | 1 1/8                  | 2 1/2             | 13                    |
| 25           | 18.00   | 6             | 1                      | 2 7/8             | 16                    |
| 28           | 21.00   | 6             | 1 1/8                  | 2 1/2             | 21                    |
| 30           | 24.00   | 8             | 1 1/4                  | 3 1/8             | 31                    |
| 36           | 33.00   | 8             | 1 3/8                  | 3 3/8             | 41                    |

ALL SPOKE TYPE STEERING WHEELS ARE MEASURED FROM TIP TO TIP OF HANDLES

## BRACKET CHAIN TYPE STEERERS

CAST BRONZE BRACKET AND SPROCKET

These are all furnished complete with 3 ft. of heavy brass roller chain as illustrated, chain has  $\frac{3}{8}$  inch pitch, diameter sprocket  $4\frac{1}{2}$  inches, size of bracket  $6\frac{1}{2}$  inches high,  $5\frac{1}{2}$  inches wide.

WITH POLISHED BRONZE WHEEL  
FOR OUTSIDE BULKHEAD MOUNTING



Fig. 674

| Size Wheel<br>Inches | Price<br>Each | Diam. of Shaft<br>Inches |
|----------------------|---------------|--------------------------|
| 16                   | \$20.00       | $\frac{3}{8}$            |
| 20                   | 26.00         | $\frac{3}{8}$            |
| 25                   | 34.00         | 1                        |

WITH INLAID MAHOGANY WHEEL  
FOR OUTSIDE BULKHEAD MOUNTING

WITH POLISHED BRONZE WHEEL  
FOR INSIDE BULKHEAD MOUNTING

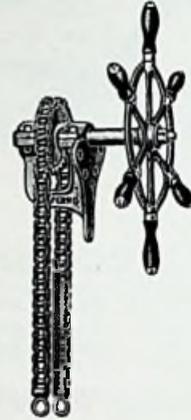


Fig. 675

| Size Wheel<br>Inches | Price<br>Each | Diam. of Shaft<br>Inches |
|----------------------|---------------|--------------------------|
| 16                   | \$20.00       | $\frac{3}{8}$            |
| 20                   | 26.00         | $\frac{3}{8}$            |
| 25                   | 34.00         | 1                        |

Give length of shaft when ordering  
WITH INLAID MAHOGANY WHEEL  
FOR INSIDE BULKHEAD MOUNTING

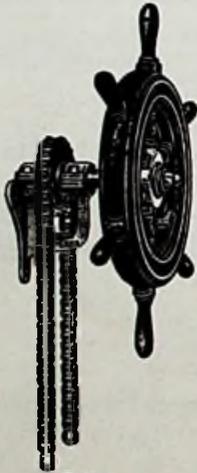


Fig. 676

| Size Wheel<br>Inches | Price<br>Each | Diam. of Shaft<br>Inches |
|----------------------|---------------|--------------------------|
| 20                   | \$48.40       | $\frac{3}{8}$            |
| 24                   | 52.20         | 1                        |
| 28                   | 61.00         | $1\frac{1}{8}$           |



Fig. 677

| Size Wheel<br>Inches | Price<br>Each | Diam. of Shaft<br>Inches |
|----------------------|---------------|--------------------------|
| 20                   | \$48.40       | $\frac{3}{8}$            |
| 24                   | 52.20         | 1                        |
| 28                   | 61.00         | $1\frac{1}{8}$           |

Give length of shaft when ordering

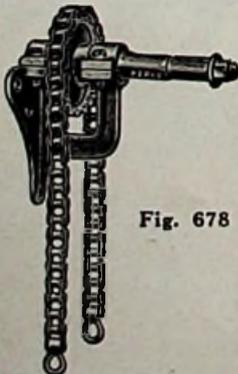


Fig. 678

BRACKET STEERER, COMPLETE EXCEPT WHEEL

Furnished complete with chain as shown, with long shaft and keyway for mahogany wheel.

| Size Wheel<br>Inches | Price<br>Each | Diam. of Shaft<br>Inches |
|----------------------|---------------|--------------------------|
| 20                   | \$19.00       | $\frac{3}{8}$            |
| 24                   | 21.00         | 1                        |
| 28                   | 26.00         | $1\frac{1}{8}$           |

Extra 36 inch lengths of Brass Roller Chain with Ends, Price, \$6.00 Each



### "Perko" Reverse Gear Controls

HEAVY CAST BRONZE—POLISHED  
FOR 1 INCH OR 1 1/4 INCH SHAFT

NO MACHINING OF SHAFT—NO EXTRA EXPENSE  
—NO EXTRA LABOR

The main feature of "Perko" controls is that it is unnecessary to have shaft machined, such as threading, key seating or drilling.

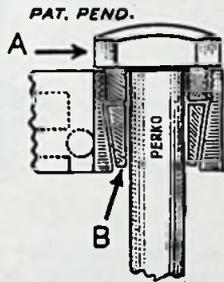
A mechanically perfect wedging device is incorporated in both upper and lower lever (patent pending). When installing it is only necessary to insert tapered bushing "B" around shaft and tighten nut "A" and an absolutely fast grip on the shaft is obtained, at no extra expense for machining, and very little labor.

A simple arrangement holds the control handle horizontally and when not in use can be placed in a vertical position by a slight movement of the hand.



Fig. 663

Interior view of tapered fastening device.



| Length Handle Inches | Length Lower Lever Inches | Sockets Threaded for Rod Inches | Diam. Vertical Shaft Inches | Bulkhead to Center of Shaft Inches | Weight Without Shaft Pounds |
|----------------------|---------------------------|---------------------------------|-----------------------------|------------------------------------|-----------------------------|
| 18                   | 10                        | 3/4                             | 1 1/2                       | 2                                  | 15 1/4                      |

- Fittings complete—except shaft ..... \$20.00
  - Fittings complete—with 4 ft. of 1 inch bronze shaft ..... 27.00
  - Fittings complete with 4 ft. of 1 1/4 inch bronze shaft ..... 29.00
  - Additional 1 inch bronze shaft—per foot..... 1.75
  - Additional 1 1/4 inch bronze shaft—per foot..... 2.25
- Do not fail to specify size of shaft when ordering

### Folding Stool

CAST BRONZE SUPPORTS

An ideal fitting for the average cruiser, appreciated by boat owners who have spent hours at the wheel.

Fig. 1009

| No. | Each   | Diam. Seat Inches | Offset Inches |
|-----|--------|-------------------|---------------|
| 1   | \$6.50 | 11                | 14            |
| 2   | 9.50   | 13                | 16            |

### "Perko" Reverse Gear Controls

HEAVY CAST BRONZE—POLISHED  
FOR 1 INCH SHAFT

Same tapered bushing device as Fig. 663 in upper and lower levers, no machining of shaft necessary.

Control handle is hinged so that it hangs in vertical position out of way when not in use.

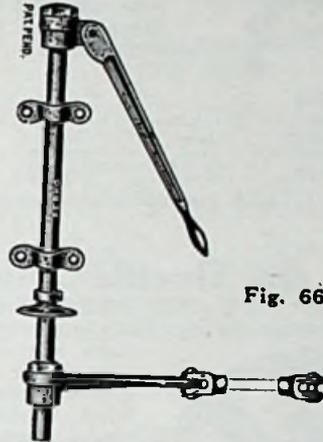


Fig. 664

| Length Handle Inches | Length Lower Lever Inches | Sockets Threaded for Rod Inches | Diam. Vertical Shaft Inches | Bulkhead to Center of Shaft Inches | Weight Without Shaft Pounds |
|----------------------|---------------------------|---------------------------------|-----------------------------|------------------------------------|-----------------------------|
| 18                   | 10                        | 3/4                             | 1                           | 2                                  | 13 1/4                      |

- Fitting complete—except shaft ..... \$15.00
- Fittings complete with 4 ft. bronze shaft ..... 22.00
- Additional 1 inch bronze shaft, per foot..... 1.75

### Columbian Clutch Control

CAST BRONZE

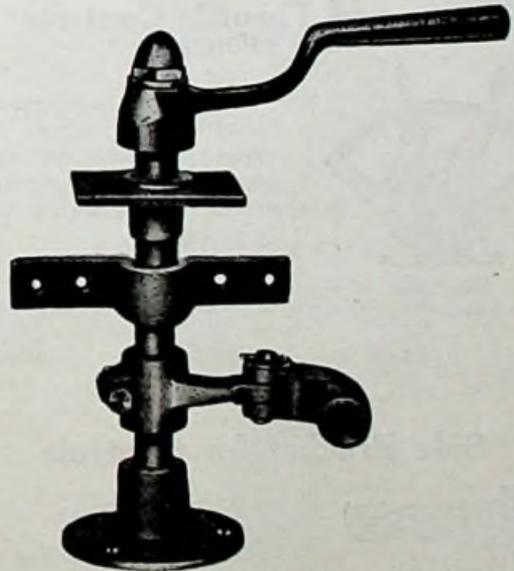


Fig. 822

Furnished as shown with choice of bulkhead bracket or shelf plate and without shaft. All fittings for 1 inch shaft. Length of handle 8 inches.  
Price per set ..... \$12.00

### Spark and Throttle Controls

FRICITION TYPE—FOR CONTROL ROD  
CAST BRONZE

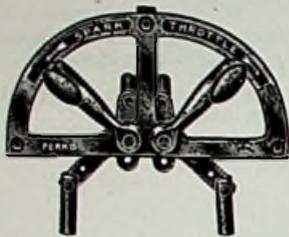


Fig. 653

| Polished<br>Bronze<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each | Size<br>Frame<br>Inches | Weight<br>Each<br>Pounds |
|----------------------------|--------------------------|----------------------------|-------------------------|--------------------------|
| \$4.75                     | \$6.75                   | \$8.75                     | 6 1/2 x 3 1/4           | 1 1/4                    |

Sockets for 1/4 inch rod furnished unless otherwise specified.

All control connections are inside bulkhead, out of sight after installation. Control rod sockets are tapped for 1/4 or 5/16 inch rod. Shafts for connecting rods are long enough for mounting on bulkhead 2 inches thick.

### Spark and Throttle Control

FOR 1/4 OR 5/16 CONTROL ROD  
CAST BRONZE—RATCHET TYPE



Fig. 331

A strong ratchet holds handles in position desired furnished complete with control rod sockets threaded for 1/4 or 5/16 inch rod.

| Polished<br>Bronze<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each | Length<br>Plate<br>Inches | Width<br>Plate<br>Inches |
|----------------------------|--------------------------|----------------------------|---------------------------|--------------------------|
| \$5.50                     | \$6.50                   | \$8.50                     | 6                         | 2 1/2                    |

BE SURE TO SPECIFY SIZE OF ROD WHEN ORDERING

### Spark and Throttle Controls

FRICITION TYPE—FOR BOWDEN WIRE

Same construction as Fig. 653 above except connections which are designed for a bowden wire and casing installation. Equipment includes special clips for connecting bowden wire and two swivel clamps for supporting bowden casing.

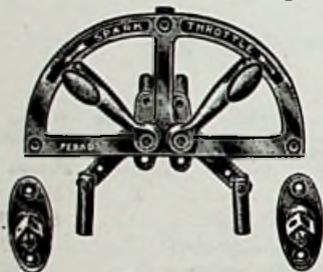


Fig. 654

| Polished<br>Bronze<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each | Size<br>Frame<br>Inches | Weight<br>Each<br>Pounds |
|----------------------------|--------------------------|----------------------------|-------------------------|--------------------------|
| \$6.00                     | \$8.00                   | \$10.00                    | 6 1/2 x 3 1/4           | 1 1/2                    |

For more detailed information on bowden clamp refer to Fig. 352.

### Throttle Controls

FOR CONTROL WIRE AND CASING  
CAST BRONZE—RATCHET TYPE



Fig. 715

A strong and very practical control for all types of boats, an improved ratchet device that is almost noiseless, yet the handle cannot be shifted out of place by vibration. Furnished with finishing plate for outside of bulkhead, all bolts and swivel fittings for control wire and casing.

| Plain<br>Bronze<br>Each | Polished<br>Bronze<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each | Length<br>Plate<br>Inches | Width<br>Plate<br>Inches |
|-------------------------|----------------------------|--------------------------|----------------------------|---------------------------|--------------------------|
| \$3.50                  | \$4.50                     | \$5.50                   | \$7.50                     | 6                         | 2 3/4                    |

### Spark and Throttle Controls

CAST BRONZE

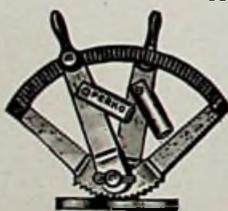


Fig. 904

|        | Polished<br>Bronze<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each |
|--------|----------------------------|--------------------------|----------------------------|
| Single | \$2.50                     | \$3.50                   | \$5.00                     |
| Double | 3.75                       | 5.25                     | 7.00                       |

Position can be changed by loosening one screw. The toothed arc holds control in desired position. Control rod sockets are tapped for 1/4 or 5/16 inch rod.

### Throttle Controls

FOR 1/4 OR 5/16 CONTROL ROD  
CAST BRONZE—RATCHET TYPE

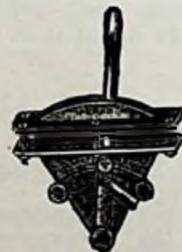


Fig. 716

Handle cannot be shifted by vibration due to improved ratchet device that is practically noiseless.

Furnished with control rod socket threaded for 1/4 or 5/16 inch rod, finishing plate for outside bulkhead and all necessary bolts.

| Plain<br>Bronze<br>Each | Polished<br>Bronze<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each | Length<br>Plate<br>Inches | Width<br>Plate<br>Inches |
|-------------------------|----------------------------|--------------------------|----------------------------|---------------------------|--------------------------|
| \$3.50                  | \$4.50                     | \$5.50                   | \$7.50                     | 6                         | 2 3/4                    |

BE SURE TO SPECIFY SIZE OF ROD WHEN ORDERING

### Side Bracket for Controls

CAST BRONZE



Fig. 905

For use with control Fig. 904 when side bracket is desired.

| When used with Fig. 904 control add to above prices each |      |
|--|------|
| Brackets only—Pol. Bronze, each                          | 1.00 |
| Nickel Plated, each                                      | 1.50 |
| Chromium Plated, each                                    | 2.00 |

## Remote Throttle Controls

PLAIN CAST BRONZE  
FOR OUTBOARD MOTOR BOATS

Sturdily constructed of cast bronze especially designed for the racing driver's convenience. A long handle giving full leverage. Arrangement of side plate allows installation on gunwale while at the same time, it does not project above deck enough to cause injury in case of upsetting. Furnished complete with necessary bowden wire fittings.

SIDE PATTERN

FLOOR PATTERN

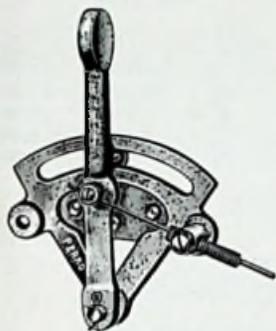


Fig. 350

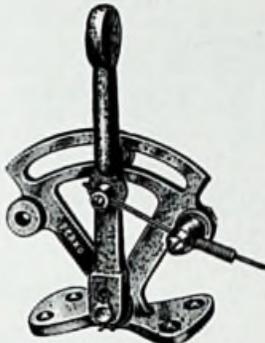


Fig. 351

| Size Floor Plate Inches | Width Overall Inches | Height Overall Inches | Weight Ounces | Either Style Each |
|-------------------------|----------------------|-----------------------|---------------|-------------------|
| 3x1 3/4                 | 3 3/4                | 5 3/4                 | 14            | \$1.50            |

Prices do not include Bowden Wire or Casing.

## Front Bulkhead Controls

FOR SPARK AND THROTTLE

For use with Control Wire and Casing.

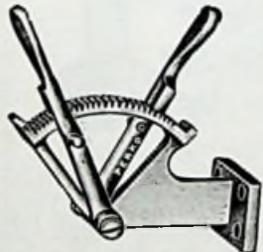


Fig. 409

|        | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |
|--------|----------------------|--------------------|----------------------|
| Single | \$2.30               | \$3.30             | \$5.00               |
| Double | 3.20                 | 4.20               | 6.00                 |

## Control Cranks

PLAIN CAST BRONZE

Furnished for single or double controls as desired. Cranks are solid castings with 90 degree angle. Control rod sockets are tapped for 1/4 inch or 5/16 inch rod.

Side Type

Upright Type

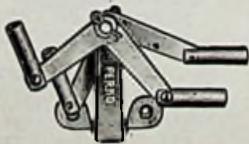


Fig. 636

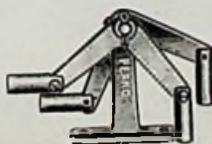


Fig. 637

SIDE OR UPRIGHT TYPE

| For Rod Inches | Single Complete Each | Double Complete Each | Cranks Only Each | Brackets Only Each |
|----------------|----------------------|----------------------|------------------|--------------------|
| 1/4            | \$1.10               | \$1.75               | \$.35            | \$.40              |
| 5/16           | 1.35                 | 2.25                 | .40              | .50                |

## Dashboard Choke Controls

ALL BRASS CONTROL HANDLE WITH RUST PROOFED STEEL OR PHOSPHOR BRONZE WIRE AND CASING



Fig. 371

WITH STEEL CASING AND WIRE

| 5 Ft. Lengths Per Set | 7 Ft. Lengths Per Set | 10 Ft. Lengths Per Set | 15 Ft. Lengths Per Set |
|-----------------------|-----------------------|------------------------|------------------------|
| \$2.00                | \$2.25                | \$2.50                 | \$3.15                 |

WITH BRONZE CASING AND WIRE

| 5 Ft. Lengths Per Set | 7 Ft. Lengths Per Set | 10 Ft. Lengths Per Set | 15 Ft. Lengths Per Set |
|-----------------------|-----------------------|------------------------|------------------------|
| \$2.75                | \$3.50                | \$4.25                 | \$5.50                 |

With nickel plated control handle, add \$0.50 per set.  
With chromium plated control handle add \$1.00 per set.

## Bowden Wire and Casing

RUST PROOFED STEEL AND PHOSPHOR BRONZE

A high grade remote control wire, flexible and strong, furnished in any length desired, up to 50 feet. Casing is 1/4 inch outside diameter.



Fig. 353

STEEL CASING AND WIRE

| 5 Ft. Lengths Per Set | 7 Ft. Lengths Per Set | 10 Ft. Lengths Per Set | 15 Ft. Lengths Per Set |
|-----------------------|-----------------------|------------------------|------------------------|
| \$ .55                | \$.75                 | \$1.00                 | \$1.50                 |

BRONZE CASING AND WIRE

| 5 Ft. Lengths Per Set | 7 Ft. Lengths Per Set | 10 Ft. Lengths Per Set | 15 Ft. Lengths Per Set |
|-----------------------|-----------------------|------------------------|------------------------|
| \$1.50                | \$2.00                | \$2.75                 | \$4.00                 |

## Bowden Casing Clamp

CAST BRONZE—SWIVEL TYPE

Will hold control casing firmly while swivel feature allows smooth sliding of control wire in casing at any angle; size base, 2 1/4 x 1 inch.



Fig. 352

Price Each—Plain Bronze.....\$ .50

Above price does not include Bowden wire or casing.

### Control Rod Sockets

STANDARD TYPE—BRASS



Fig. 328

| Tapped for Rod Inches | Price Each | Size of Slot Inches |
|-----------------------|------------|---------------------|
| 1/4                   | \$ .20     | 1/8 x 3/4           |
| 5/16                  | .25        | 1/8 x 3/4           |

### Brass Straps

A very handy and useful article, used extensively on all types of boats for fastening copper tubing, control wire casing, and electric cable to bulkheads, floors, etc.



Fig. 121



Fig. 1075

| Inside Diam. Inches | Fig. 121 Per 100 | Fig. 1075 Per 100 | Inside Diam. Inches | Fig. 121 Per 100 | Fig. 1075 Per 100 |
|---------------------|------------------|-------------------|---------------------|------------------|-------------------|
| 1/8                 | \$1.10           | \$1.30            | 1/16                | \$1.40           | \$1.70            |
| 3/16                | 1.10             | 1.30              | 1/2                 | 1.60             | 1.90              |
| 1/4                 | 1.20             | 1.45              | 3/8                 | 2.50             | 3.00              |
| 5/16                | 1.20             | 1.45              | 3/4                 | 2.75             | 3.30              |
| 3/8                 | 1.40             | 1.70              |                     |                  |                   |

### Control Rod Sockets

HEAVY TYPE—CAST BRONZE

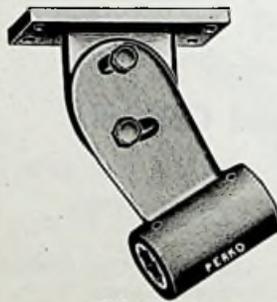


Fig. 298

| Tapped for Rod Inches | Price Each | Size of Slot Inches |
|-----------------------|------------|---------------------|
| 1/4                   | \$ .25     | 1/8 x 3/4           |
| 5/16                  | .30        | 1/4 x 3/4           |

### Adjustable Strut

WITH GOODRICH RUBBER BEARING  
CAST BRONZE—EXTRA HEAVY



Side View



Open View

Fig. 1019

### Control Wire Sockets

BRASS



Fig. 679

Complete with brass cotter pin and brass set screw.

Price Each ..... \$ .35

Price Does Not Include Control Wire

### Elbow Ball Joints

BRONZE

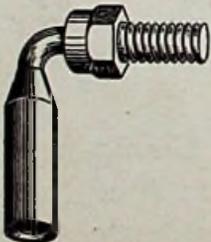


Fig. 792

Ball joints are very desirable when installing spark and throttle controls carburetor or choke control, etc.

Both ends threaded for 1/4" rod, 20 threads to inch.

PRICE EACH ..... \$ .20

### Adjustable Ball Joints

BRONZE

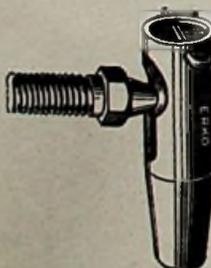


Fig. 793

Adjustable for wear, Ball is held by stiff spring and cannot rattle or work loose.

Threaded 1/4", 20 U.S.S.

PRICE EACH ..... \$ .35

This is our popular Adjustable Strut, Fig. 628, fitted up with Goodrich cutless rubber bearing. Strut is adjustable to any practical angle of the propeller shaft.

Held fast at necessary angle by two heavy bronze bolts, improved and reinforced against breakage. Length of drop is figured from bottom of keel to center of shaft.

| Lgth. Drop In. | Size Shaft Inches |         |         |         |         |         |
|----------------|-------------------|---------|---------|---------|---------|---------|
|                | 3/4               | 7/8     | 1       | 1 1/4   | 1 1/2   | 1 3/4   |
| 5              | \$18.50           | \$19.25 | \$22.00 | \$24.00 | \$28.70 | \$30.20 |
| 6              | 18.80             | 19.55   | 22.30   | 24.30   | 29.00   | 30.50   |
| 7              | 19.10             | 19.85   | 22.60   | 24.60   | 29.30   | 30.80   |
| 8              | 19.40             | 20.15   | 22.90   | 24.90   | 29.60   | 31.10   |
| 9              | 19.70             | 20.45   | 23.20   | 25.20   | 29.90   | 31.40   |
| 10             | 20.30             | 21.05   | 23.80   | 25.80   | 30.20   | 31.70   |
| 11             |                   |         |         |         | 30.50   | 32.00   |
| 12             |                   |         |         |         | 31.25   | 32.75   |

| Size shaft Inches | Width Flange Inches | Length Flange Inches | Length Bearing Inches |
|-------------------|---------------------|----------------------|-----------------------|
| 3/4               | 3                   | 5 1/2                | 3                     |
| 7/8               | 3                   | 5 1/2                | 3 1/2                 |
| 1                 | 3                   | 5 1/2                | 4                     |
| 1 1/8             | 3                   | 5 1/2                | 4 1/2                 |
| 1 1/4             | 3 1/2               | 6 1/2                | 5                     |
| 1 3/8             | 3 1/2               | 6 1/2                | 5 1/2                 |
| 1 1/2             | 3 1/2               | 6 1/2                | 6                     |

Specify Size Shaft and Length of Drop when ordering.

## Adjustable Shaft Logs

ALL CAST BRONZE—EXTRA HEAVY

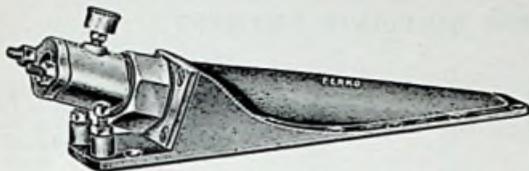


Fig. 627

Without doubt a shaft log superior to any other as yet on the market, made entirely of high grade cast bronze, stuffing box is adjustable to any angle in a 360° radius and is supported by two adjustable lugs to keep it from turning with the shaft should binding or freezing ever occur. Furnished complete with grease cup and rubber gasket for installing.

| No. | Price Each | Size Shaft Inches | Length Base Inches | Width Base Inches | Weight Pounds |
|-----|------------|-------------------|--------------------|-------------------|---------------|
| 1   | \$13.75    | 3/4, 7/8, 1       | 16                 | 3 1/2             | 14            |
| 2   | 20.00      | 1 1/8, 1 1/4      | 22                 | 4 1/4             | 19            |
| 3   | 29.50      | 1 3/8, 1 1/2      | 26                 | 5                 | 30            |
| 4   | 38.00      | 1 3/4, 2          | 28                 | 5 1/2             | 57            |

Specify Shaft Size When Ordering

## Self Aligning Shaft Log

CAST BRONZE

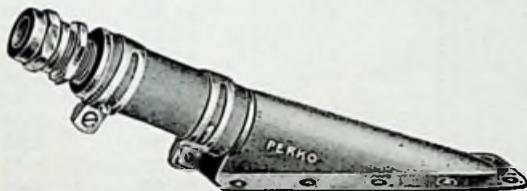


Fig. 671

A shaft log designed for high speed motors, the stuffing box and shaft are cushioned in rubber which will eliminate excessive wear of both and reduce vibration to a minimum. A cast bronze base and stuffing box joined by heavy rubber hose and extra strong hose clamps.

| No. | Price Each | For Size Shaft Inches | Size Base Inches | Length Overall Inches | Degrees of Pitch | Weight Pounds |
|-----|------------|-----------------------|------------------|-----------------------|------------------|---------------|
| 1   | \$8.00     | 3/4 - 7/8 - 1         | 11x3 1/2         | 18                    | 14               | 6             |
| 2   | 14.00      | 1 1/8 - 1 1/4         | 17x4 1/4         | 23 1/2                | 11               | 12            |
| 3   | 20.00      | 1 3/8 - 1 1/2         | 19x5             | 28                    | 11               | 20            |

STUFFING BOX AND EXTRA RUBBER HOSE FOR SELF ALIGNING SHAFT LOG AND STUFFING BOX



Fig. 672



Fig. 673

| For Log No. | Box Each | Hose Each | Hose Clamps Per Pair | Length Overall |             |          |
|-------------|----------|-----------|----------------------|----------------|-------------|----------|
|             |          |           |                      | Box Inches     | Hose Inches | Hose Ply |
| 1           | \$3.00   | \$.50     | \$.60                | 4              | 5           | 4        |
| 2           | 4.50     | .90       | 1.40                 | 4 1/2          | 5           | 6        |
| 3           | 7.00     | 1.50      | 1.70                 | 5 3/8          | 5           | 8        |
| 4           | 15.00    | 5.00      | 2.00                 | 8              | 12          | 8        |

When Ordering Box state Size of Shaft

No. 4 size has stuffing gland like Fig. 629 instead of nut.

## Adjustable Strut

ALL CAST BRONZE  
MARINE BABBITT BEARING

Side View

End View

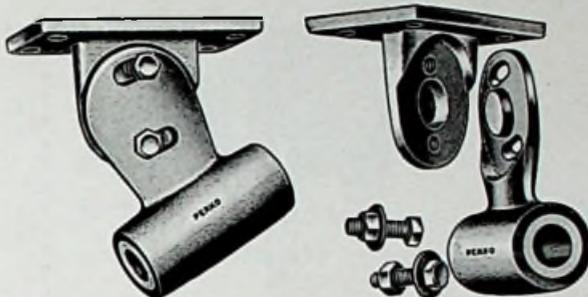


Fig. 628

Adjustable to any practical angle of the propeller shaft, held fast at necessary angle by three heavy bronze bolts, bearing is of a special marine babbitt, the highest grade obtainable. Length of drop is figured from bottom of keel to center of shaft.

| Size Shaft Inches   | Width Flange Inches | Length Flange Inches | Length Bearing Inches |
|---------------------|---------------------|----------------------|-----------------------|
| 3/4, 7/8, 1, 1 1/8  | 3                   | 5 1/2                | 4 1/8                 |
| 1 1/4, 1 3/8, 1 1/2 | 3 1/2               | 6 1/2                | 4 1/2                 |

| Length Drop In. | Size Shaft Inches |        |        |         |         |         |         |
|-----------------|-------------------|--------|--------|---------|---------|---------|---------|
|                 | 3/4               | 7/8    | 1      | 1 1/8   | 1 1/4   | 1 3/8   | 1 1/2   |
| 5               | \$8.00            | \$8.00 | \$8.00 | \$11.25 | \$11.25 | \$13.00 | \$13.00 |
| 6               | 8.25              | 8.25   | 8.25   | 11.50   | 11.50   | 13.25   | 13.25   |
| 7               | 8.35              | 8.35   | 8.35   | 11.50   | 11.50   | 13.25   | 13.25   |
| 8               | 8.50              | 8.50   | 8.50   | 11.75   | 11.75   | 13.75   | 13.75   |
| 9               | 9.00              | 9.00   | 9.00   | 12.00   | 12.00   | 14.10   | 14.10   |
| 10              | 9.50              | 9.50   | 9.50   | 12.30   | 12.30   | 14.35   | 14.35   |
| 11              | 10.00             | 10.00  | 10.00  | 12.75   | 12.75   | 14.65   | 14.65   |
| 12              |                   |        |        | 13.25   | 13.25   | 15.00   | 15.00   |

Specify Size Shaft and Length of Drop, When Ordering

## Adjustable Stuffing Box

FOR "PERKO" SHAFT LOGS  
CAST BRONZE



Fig. 629

Stuffing box end only for attaching to shaft logs, Fig. 627, furnished complete with grease cup.

| No. | Price Each | Bored for Shaft Inches | Size of Plate for Fastening Inches |
|-----|------------|------------------------|------------------------------------|
| 1   | \$ 9.00    | 3/4, 7/8, 1            | 2 3/4 x 3 1/2                      |
| 2   | 12.00      | 1 1/8, 1 1/4           | 3 1/4 x 4 1/4                      |
| 3   | 17.00      | 1 3/8, 1 1/2           | 3 3/8 x 5                          |
| 4   | 24.00      | 1 3/4, 2               | 5 1/8 x 5 1/2                      |



## GOODRICH CUTLESS BEARINGS

### Stock Sizes—Table of Dimensions, Weights and 1936 Prices

SIZES SHOWN HERE ARE IN STOCK FOR IMMEDIATE SHIPMENT

| A<br>Shaft<br>Diam.<br>Inches | B<br>Outside<br>Diam.<br>Inches | Standard<br>Length<br>Inches | E<br>Rubber<br>Wall<br>Inches | D<br>Metal<br>Wall<br>Inches | Shipping<br>Weight<br>Lbs. | Price<br>Each | Sp'l L'gths<br>Price Per<br>Lin. In. |
|-------------------------------|---------------------------------|------------------------------|-------------------------------|------------------------------|----------------------------|---------------|--------------------------------------|
| 3/4                           | 1 1/4                           | 3                            | 1/8                           | 1/8                          | 3/4                        | \$ 6.20       | \$2.27                               |
| 7/8                           | 1 3/8                           | 3 1/2                        | 1/8                           | 3/4                          | 3/4                        | 7.20          | 2.27                                 |
| 1                             | 1 1/2                           | 3 1/2                        | 1/8                           | 1/8                          | 3/4                        | 7.20          | 2.27                                 |
| 1                             | 1 1/2                           | 4                            | 1/8                           | 1/8                          | 1                          | 8.30          | 2.38                                 |
| 1                             | 1 5/8                           | 4                            | 1/8                           | 1/8                          | 1 1/4                      | 8.30          | 2.38                                 |
| 1                             | 2                               | 4                            | 3/8                           | 1/8                          | 1 1/2                      | 8.30          | 2.38                                 |
| 1 1/8                         | 1 3/8                           | 4 1/2                        | 1/8                           | 1/8                          | 1 1/4                      | 9.80          | 2.44                                 |
| 1 1/8                         | 1 3/4                           | 4 1/2                        | 1/8                           | 1/8                          | 1 1/2                      | 9.80          | 2.44                                 |
| 1 1/8                         | 2                               | 4 1/2                        | 1/8                           | 1/8                          | 1 3/4                      | 9.80          | 2.44                                 |
| 1 1/4                         | 1 3/4                           | 5                            | 1/8                           | 1/8                          | 1 1/2                      | 11.20         | 2.50                                 |
| 1 1/4                         | 2                               | 5                            | 1/4                           | 1/8                          | 1 3/4                      | 11.20         | 2.50                                 |
| 1 1/4                         | 2 1/8                           | 5                            | 1/8                           | 1/8                          | 1 3/4                      | 11.20         | 2.50                                 |
| 1 1/4                         | 1 7/8                           | 5 1/2                        | 1/8                           | 1/8                          | 1 3/4                      | 12.40         | 2.66                                 |
| 1 3/8                         | 2 1/8                           | 5 1/2                        | 1/4                           | 1/8                          | 2 1/4                      | 12.40         | 2.66                                 |
| 1 3/8                         | 2 3/8                           | 5 1/2                        | 3/8                           | 1/8                          | 2 1/2                      | 12.40         | 2.66                                 |
| 1 1/2                         | 2                               | 6                            | 1/8                           | 1/8                          | 2                          | 14.30         | 2.78                                 |
| 1 1/2                         | 2 3/8                           | 6                            | 1/8                           | 1/8                          | 2 1/2                      | 14.30         | 2.78                                 |
| 1 5/8                         | 2 1/8                           | 6 1/2                        | 1/8                           | 1/8                          | 2 1/4                      | 16.70         | 3.02                                 |
| 1 5/8                         | 2 3/8                           | 6 1/2                        | 3/8                           | 1/8                          | 3                          | 16.70         | 3.02                                 |
| 1 3/4                         | 2 3/8                           | 7                            | 1/8                           | 1/8                          | 2 3/4                      | 18.90         | 3.16                                 |
| 1 3/4                         | 2 3/8                           | 7                            | 1/8                           | 1/8                          | 3 1/4                      | 18.90         | 3.16                                 |
| 1 7/8                         | 2 3/8                           | 7 1/2                        | 1/4                           | 1/8                          | 3 1/4                      | 20.80         | 3.26                                 |
| 1 3/8                         | 2 1 1/8                         | 7 1/2                        | 1 1/8                         | 1/8                          | 4                          | 20.80         | 3.26                                 |
| 2                             | 2 3/8                           | 8                            | 1/8                           | 1/8                          | 3 1/2                      | 21.80         | \$3.30                               |
| 2                             | 3                               | 8                            | 3/8                           | 1/8                          | 4 1/2                      | 21.80         | 3.30                                 |
| 2 1/8                         | 2 1 1/8                         | 8 1/2                        | 1/8                           | 1/8                          | 4 1/2                      | 23.50         | 3.30                                 |
| 2 1/8                         | 3 1/8                           | 8 1/2                        | 3/8                           | 1/8                          | 4 3/4                      | 23.50         | 3.30                                 |
| 2 1/4                         | 2 1 1/8                         | 9                            | 1/8                           | 1/8                          | 4 1/2                      | 25.40         | 3.36                                 |
| 2 1/4                         | 3 1/8                           | 9                            | 1/8                           | 1/8                          | 5                          | 25.40         | 3.36                                 |
| 2 1/4                         | 3 3/8                           | 9                            | 1/8                           | 1/8                          | 6                          | 25.40         | 3.36                                 |
| 2 3/8                         | 3 3/8                           | 9 1/2                        | 3/8                           | 1/8                          | 6                          | 27.30         | 3.38                                 |
| 2 1/2                         | 3 1/8                           | 10                           | 1/8                           | 1/8                          | 5                          | 28.20         | 3.44                                 |
| 2 1/2                         | 3 3/8                           | 10                           | 1/8                           | 1/8                          | 6                          | 28.20         | 3.44                                 |
| 2 3/8                         | 3 3/8                           | 10 1/2                       | 1/4                           | 1/8                          | 5 3/4                      | 30.80         | 3.50                                 |
| 2 3/4                         | 3 3/8                           | 11                           | 1/8                           | 1/8                          | 5 3/4                      | 33.40         | 3.56                                 |
| 2 3/4                         | 3 3/4                           | 11                           | 3/8                           | 1/8                          | 6                          | 33.40         | 3.56                                 |
| 2 3/8                         | 3 3/4                           | 11 1/2                       | 1/8                           | 1/8                          | 6 3/4                      | 34.70         | 3.62                                 |
| 3                             | 3 3/4                           | 12                           | 1/4                           | 1/8                          | 8                          | 36.80         | 3.66                                 |
| 3                             | 4                               | 12                           | 3/8                           | 1/8                          | 8 1/2                      | 36.80         | 3.66                                 |
| 3 1/8                         | 4 1/4                           | 12 1/2                       | 1/8                           | 1/8                          | 8 1/2                      | 39.60         | 3.72                                 |
| 3 1/4                         | 4                               | 13                           | 1/4                           | 1/8                          | 9 1/4                      | 42.60         | 3.86                                 |
| 3 1/4                         | 4 1/4                           | 13                           | 3/8                           | 1/8                          | 10                         | 42.60         | 3.86                                 |
| 3 3/8                         | 4 1/2                           | 13 1/2                       | 1/8                           | 1/8                          | 10 3/4                     | 46.00         | 4.02                                 |
| 3 1/2                         | 4 1/4                           | 14                           | 1/4                           | 1/8                          | 10                         | 49.10         | 4.14                                 |
| 3 1/2                         | 4 1/2                           | 14                           | 3/8                           | 1/8                          | 11 1/2                     | 49.10         | 4.14                                 |
| 3 5/8                         | 4 1/2                           | 14 1/2                       | 1/8                           | 1/8                          | 12 3/8                     | 53.60         | 4.36                                 |
| 3 3/4                         | 4 1/2                           | 15                           | 1/4                           | 1/8                          | 10 1/2                     | 59.50         | 4.68                                 |
| 3 3/4                         | 5                               | 15                           | 1/8                           | 1/8                          | 17 3/4                     | 59.50         | 4.68                                 |
| 3 3/4                         | 5 1/4                           | 15                           | 1/8                           | 1/8                          | 18                         | 59.50         | 4.68                                 |
| 3 3/8                         | 5 1/4                           | 15 1/2                       | 1/2                           | 1/8                          | 20                         | 63.60         | 4.84                                 |
| 4                             | 5                               | 16                           | 1/8                           | 1/8                          | 28                         | 68.40         | 5.04                                 |
| 4                             | 5 1/4                           | 16                           | 1/8                           | 1/8                          | 29 1/2                     | 68.40         | 5.04                                 |
| 4 1/8                         | 5 1/4                           | 16 1/2                       | 3/8                           | 1/8                          | 31                         | 71.60         | 5.12                                 |
| 4 1/4                         | 5 1/2                           | 17                           | 1/8                           | 1/8                          | 29 1/2                     | 74.40         | 5.12                                 |
| 4 3/8                         | 5 3/4                           | 17 1/2                       | 1/2                           | 1/8                          | 33 1/2                     | 77.80         | 5.22                                 |
| 4 1/2                         | 5 1/2                           | 18                           | 1/8                           | 1/8                          | 33 1/4                     | 82.00         | 5.36                                 |
| 4 1/2                         | 5 3/4                           | 18                           | 1/8                           | 1/8                          | 35                         | 82.00         | 5.36                                 |
| 4 5/8                         | 6 1/8                           | 18 1/2                       | 1/2                           | 1/4                          | 39                         | 89.40         | 5.68                                 |
| 4 3/4                         | 6 1/8                           | 19                           | 1/8                           | 1/4                          | 43 3/4                     | 96.30         | 5.94                                 |
| 4 7/8                         | 6 1/8                           | 19 1/2                       | 1/8                           | 1/8                          | 43                         | 101.20        | 6.10                                 |
| 5                             | 6 1/8                           | 20                           | 1/8                           | 1/4                          | 45                         | 106.60        | 6.28                                 |
| 5                             | 6 1/2                           | 20                           | 1/2                           | 1/4                          | 50 1/4                     | 106.60        | 6.28                                 |
| 5 1/4                         | 7                               | 21                           | 1/8                           | 1/8                          | 80 1/4                     | 118.30        | 6.64                                 |
| 5 3/8                         | 7                               | 21 1/2                       | 1/8                           | 3/8                          | 75                         | 124.00        | 6.80                                 |
| 5 1/2                         | 7                               | 22                           | 1/2                           | 1/4                          | 65                         | 129.20        | 6.95                                 |
| 5 5/8                         | 7                               | 22 1/2                       | 1/8                           | 1/4                          | 70                         | 134.50        | 7.04                                 |
| 5 3/4                         | 7                               | 23                           | 3/8                           | 1/4                          | 62 3/4                     | 140.20        | 7.18                                 |
| 6                             | 7 1/2                           | 24                           | 1/2                           | 1/4                          | 70                         | 156.00        | 7.64                                 |



Fig. 1021



## Rubber Engine Mountings

PREPARED FOR MARINE ENGINE  
INSTALLATIONS—LACQUERED

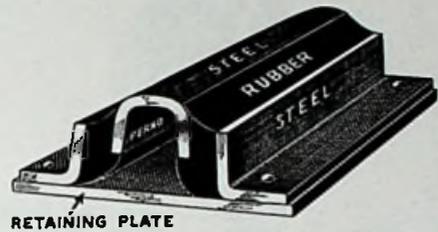


Fig. 455

Provides an elastic mounting for moving machinery of all kinds.

Made of 3 metallic members securely bonded to 2 resilient rubber elements arranged in such a manner that the loads are carried in a combination of shear and compression, the central inverted metal "U" carries the load and the extended metal flanges on either side are bolted to the engine bed, thus the rubber connector strips absorb and stop vibration created by the engine, eliminating vibrational noises, and increasing the mechanical efficiency of the engine.

The adhesion of the rubber to the metal is over 250 pounds per square inch.

Furnished in various lengths for various installations.

The rubber is coated with a long life elastic lacquer making it impervious to the effects of bilge water, oil, grease and dampness.

Furnished with or without a steel plate riveted to the flanges, the steel plate permits the fastening of the mounting to the engine before installing so that engine can be properly lined up.

If plate is not used the rubber will stretch and lose its compression quality before the mounting is bolted to the bed.

The only time the plate is not necessary is when the type of installation will allow the mounting to be bolted to the bed before the weight of the engine is put on it, this of course should not be done when installing an engine in a boat, as proper "lining up" would be extremely difficult.

Extreme width of mounting,  $4\frac{1}{8}$  inches.

### WITH RETAINING PLATE

| Length Inches | 4      | 6      | 8      | 10     | 12     |
|---------------|--------|--------|--------|--------|--------|
| Price Each    | \$2.90 | \$3.60 | \$4.50 | \$5.30 | \$6.00 |

### WITHOUT RETAINING PLATE

NOT LACQUERED

| Length Inches | 4      | 6      | 8      | 10     | 12     |
|---------------|--------|--------|--------|--------|--------|
| Price Each    | \$1.70 | \$2.40 | \$3.00 | \$3.75 | \$4.25 |

**Stuffing Boxes**  
CAST BRONZE—REGULAR



Fig. 320

| Size Shaft Inches | Each   | Size Flange Inches | Length Bearing Inches | Drilled for Fastening Inches | Weight Pounds |
|-------------------|--------|--------------------|-----------------------|------------------------------|---------------|
| 3/4               | \$1.50 | 4 1/8 x 1 3/4      | 2 3/8                 | 3/8                          | 1 1/8         |
| 7/8               | 1.75   | 4 1/4 x 1 7/8      | 2 7/8                 | 7/8                          | 1 1/2         |
| 1                 | 2.00   | 4 1/2 x 2 1/4      | 3                     | 1 1/8                        | 1 3/4         |
| 1 1/8             | 2.50   | 5 1/8 x 2 3/8      | 3 1/4                 | 1 1/8                        | 2 1/4         |
| 1 1/4             | 3.00   | 6 x 2 3/8          | 3 3/8                 | 1 1/2                        | 3             |
| 1 3/8             | 3.75   | 6 1/4 x 3          | 3 3/8                 | 1 1/2                        | 3 1/4         |
| 1 1/2             | 4.50   | 6 1/2 x 3          | 3 7/8                 | 1 1/2                        | 3 1/2         |
| 1 3/4             | 6.50   | 7 x 3 3/4          | 3 3/4                 | 5/8                          | 5 3/4         |

**Stern Bearings**  
CAST BRONZE—REGULAR

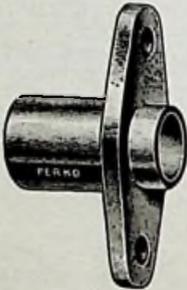


Fig. 321

| Size Shaft Inches | Each   | Size Flange Inches | Length Bearing Inches | Drilled for Fastening Inches | Weight Pounds |
|-------------------|--------|--------------------|-----------------------|------------------------------|---------------|
| 3/4               | \$1.00 | 4 1/8 x 1 3/4      | 2 3/8                 | 3/8                          | 13 oz.        |
| 7/8               | 1.25   | 4 1/4 x 1 7/8      | 2 7/8                 | 7/8                          | 1 lb.         |
| 1                 | 1.50   | 4 1/2 x 2 1/4      | 3                     | 1 1/8                        | 1 1/4         |
| 1 1/8             | 1.75   | 5 1/8 x 2 3/8      | 3 1/4                 | 1 1/2                        | 1 1/2         |
| 1 1/4             | 2.00   | 6 x 2 3/8          | 3 3/8                 | 1 1/2                        | 2             |
| 1 3/8             | 2.50   | 6 1/4 x 3          | 3 3/8                 | 1 1/2                        | 2 1/4         |
| 1 1/2             | 3.25   | 6 1/2 x 3          | 3 7/8                 | 1 1/2                        | 2 1/2         |
| 1 3/4             | 4.00   | 7 x 3 3/4          | 3 3/4                 | 5/8                          | 3 3/4         |

**Stuffing Boxes and Stern Bearing**  
THREADED FOR PIPE

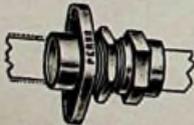


Fig. 711

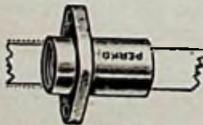


Fig. 712

| Size Shaft Inches | Stuffing Box Each | Stern Bearing Each | Size Flange Inches | Tapped for Pipe Inches | Drilled for Fastening Inches |
|-------------------|-------------------|--------------------|--------------------|------------------------|------------------------------|
| 3/4               | \$2.00            | \$1.25             | 4 x 2 1/8          | 3/4                    | 3/8                          |
| 7/8               | 2.25              | 1.50               | 4 3/4 x 2 7/8      | 1                      | 7/8                          |
| 1                 | 2.75              | 1.75               | 4 3/4 x 2 7/8      | 1 1/4                  | 1 1/8                        |
| 1 1/8             | 3.25              | 2.00               | 5 3/4 x 3          | 1 1/4                  | 1 1/2                        |
| 1 1/4             | 4.00              | 2.25               | 6 x 3              | 1 1/4                  | 1 1/2                        |
| 1 3/8             | 5.00              | 2.75               | 6 1/2 x 3 3/8      | 1 1/2                  | 1 1/2                        |
| 1 1/2             | 5.50              | 3.25               | 6 3/4 x 3 3/4      | 1 1/2                  | 1 1/2                        |

**Stuffing Boxes**

CAST BRONZE—HEAVY

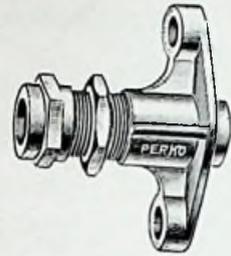


Fig. 631

| Size Shaft Inches | Plain Each | Babbitted Each | Size Flange Inches | Drilled for Fastening Inches | Lgth. Bearing Inches | Weight Pounds |
|-------------------|------------|----------------|--------------------|------------------------------|----------------------|---------------|
| 3/4               | \$3.50     | \$4.75         | 4 1/2 x 2 1/2      | 3/8                          | 3 1/2                | 2 1/2         |
| 7/8               | 4.00       | 5.50           | 5 1/8 x 2 3/4      | 3/8                          | 4                    | 3 1/2         |
| 1                 | 4.50       | 6.25           | 5 3/4 x 3          | 1/2                          | 4 1/2                | 4             |
| 1 1/8             | 5.00       | 6.75           | 6 3/8 x 3 1/4      | 1/2                          | 5                    | 4 3/4         |
| 1 1/4             | 6.00       | 7.75           | 7 x 3 1/2          | 5/8                          | 5 1/2                | 6 1/2         |
| 1 3/8             | 7.00       | 8.75           | 7 5/8 x 3 3/4      | 5/8                          | 6                    | 8             |
| 1 1/2             | 8.50       | 10.75          | 8 1/8 x 4          | 3/4                          | 6 1/2                | 9 1/2         |
| 1 5/8             | 10.00      | 13.25          | 8 3/8 x 4          | 3/4                          | 7                    | 10 1/2        |
| 1 3/4             | 11.50      | 15.00          | 9 1/8 x 4          | 3/4                          | 7 1/2                | 11 1/2        |
| 1 7/8             | 13.00      | 17.00          | 9 3/4 x 4 1/4      | 3/4                          | 8                    | 13            |
| 2                 | 14.50      | 19.00          | 10 1/8 x 4 1/2     | 3/4                          | 8 1/2                | 14 1/2        |

Length of Bearing does not include Packing Nut.

**Stern Bearings**

CAST BRONZE—HEAVY



Fig. 632

| Size Shaft Inches | Plain Each | Babbitted Each | Size Flange Inches | Drilled for Fastening Inches | Lgth. Bearing Inches | Weight Pounds |
|-------------------|------------|----------------|--------------------|------------------------------|----------------------|---------------|
| 3/4               | \$2.50     | \$3.75         | 4 1/2 x 2 1/2      | 3/8                          | 3 1/2                | 1 3/4         |
| 7/8               | 2.75       | 4.25           | 5 1/8 x 2 3/4      | 3/8                          | 4                    | 2 1/2         |
| 1                 | 3.00       | 4.75           | 5 3/4 x 3          | 1/2                          | 4 1/2                | 2 3/4         |
| 1 1/8             | 3.25       | 5.00           | 6 3/8 x 3 1/4      | 1/2                          | 5                    | 3 3/8         |
| 1 1/4             | 3.75       | 5.50           | 7 x 3 1/2          | 5/8                          | 5 1/2                | 4 3/4         |
| 1 3/8             | 4.50       | 6.25           | 7 5/8 x 3 3/4      | 5/8                          | 6                    | 6 1/2         |
| 1 1/2             | 5.50       | 7.75           | 8 1/8 x 4          | 3/4                          | 6 1/2                | 7 3/4         |
| 1 5/8             | 6.75       | 10.00          | 8 3/8 x 4          | 3/4                          | 7                    | 8 1/2         |
| 1 3/4             | 8.00       | 11.50          | 9 1/8 x 4          | 3/4                          | 7 1/2                | 9             |
| 1 7/8             | 9.25       | 13.25          | 9 3/4 x 4 1/4      | 3/4                          | 8                    | 10 3/4        |
| 2                 | 10.75      | 15.25          | 10 1/8 x 4 1/2     | 3/4                          | 8 1/2                | 11 3/4        |



**Extra Heavy Stuffing Box**  
RECTANGULAR FLANGE—CAST BRONZE

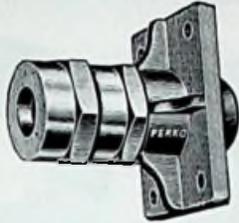


Fig. 819

| For Diam. Shaft Inches | Plain Each | Babbitted Each | Size of Flange Inches | Length Bearing Inches |
|------------------------|------------|----------------|-----------------------|-----------------------|
| 1                      | \$ 5.25    | \$ 7.00        | 5 x 3                 | 4 1/8                 |
| 1 1/8                  | 5.75       | 7.50           | 5 1/2 x 3 1/4         | 4 1/8                 |
| 1 1/4                  | 6.75       | 8.50           | 5 3/4 x 3 5/8         | 4 5/8                 |
| 1 3/8                  | 8.00       | 9.75           | 6 x 4                 | 5 1/8                 |
| 1 1/2                  | 10.00      | 12.25          | 6 x 4 1/2             | 5 3/8                 |
| 1 3/4                  | 12.50      | 16.00          | 6 1/2 x 4 1/2         | 7                     |
| 2                      | 16.00      | 20.50          | 7 3/4 x 5             | 7 7/8                 |
| 2 1/4                  | 22.00      | 28.00          | 8 1/4 x 5 1/2         | 8                     |
| 2 1/2                  | 32.00      | 40.00          | 9 x 6 1/2             | 8 1/2                 |

**Self Aligning Stuffing Box**

CAST BRONZE—RECTANGULAR FLANGE

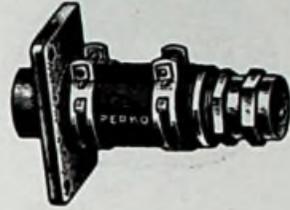


Fig. 734

Rubber mounted motors are in common use, so why not a good, strong, practical rubber mounted stuffing box.

Our self-aligning shaft log Fig. 671 is very popular, but this stuffing box does the trick where a wood log is used.

A cast bronze base and stuffing box joined by heavy rubber hose and extra strong hose clamps.

| No. | Price Each | For Size Shaft Inches | Size Flange Inches | Length From Flange to End of Box Inches |
|-----|------------|-----------------------|--------------------|---|
| 1   | \$7.00     | 3/4 - 7/8 - 1         | 5x3 3/4            | 6 3/4                                   |
| 2   | 11.00      | 1 1/8 - 1 1/4         | 6x4 1/4            | 7 3/4                                   |
| 3   | 13.00      | 1 3/8 - 1 1/2         | 7x4 3/4            | 8 3/4                                   |
| 4   | 36.00      | 1 3/4 - 2             | 8x6                | 15 1/4                                  |

No. 4 size has Stuffing Gland like Fig. 630 instead of Nut, and four hose clamps.

Can be made one inch shorter if desired by cutting off that much hose.

**Extra Heavy Stern Bearing**  
RECTANGULAR FLANGE—CAST BRONZE



Fig. 906

Size of Flange and Bearing same as Fig. 819 above.

| For Diam. Shaft Inches | Plain Each | Babbitted Each |
|------------------------|------------|----------------|
| 1                      | \$ 3.50    | \$ 5.25        |
| 1 1/8                  | 4.00       | 5.75           |
| 1 1/4                  | 4.50       | 6.25           |
| 1 3/8                  | 5.50       | 7.25           |
| 1 1/2                  | 6.50       | 8.75           |
| 1 3/4                  | 9.00       | 12.50          |
| 2                      | 11.75      | 16.25          |
| 2 1/4                  | 16.50      | 22.50          |
| 2 1/2                  | 24.00      | 32.00          |

**Improved Stuffing Box**

EXTRA HEAVY—CAST BRONZE

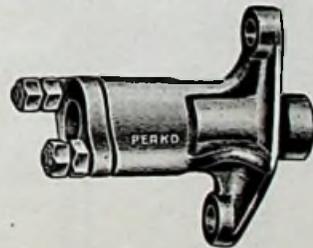
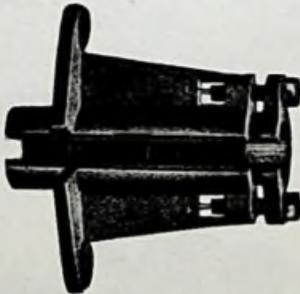


Fig. 630

A decided improvement over the regular type of stuffing box, extremely strong and heavily constructed, no nuts to bind on shaft or turn off, used with right or left hand engines, packing gland is kept in proper adjustment by two heavy tightening nuts and two lock nuts.

**Flax Packed Stuffing Box and Stern Bearing**

WITH RECTANGULAR OR OVAL FLANGE



RECTANGULAR FLANGE—Fig. 811  
OVAL FLANGE—Fig. 821

| Shaft Size Inches | Size Flange Inches | Length Bearing Inches | Price Each |
|-------------------|--------------------|-----------------------|------------|
| 1                 | 5 1/4 x 2 5/8      | 5 1/4                 | \$ 6.25    |
| 1 1/8             | 6 x 3              | 5 3/4                 | 7.00       |
| 1 1/4             | 6 3/8 x 3 1/8      | 6 1/4                 | 7.75       |
| 1 3/8             | 7 1/4 x 3 5/8      | 6 3/4                 | 8.75       |
| 1 1/2             | 8 x 4              | 7 1/4                 | 11.00      |
| 1 3/4             | 9 1/4 x 4 5/8      | 9                     | 16.00      |
| 2                 | 10 1/2 x 5 1/4     | 9 1/2                 | 20.00      |
| 2 1/4             | 12 x 6             | 11 1/4                | 26.00      |
| 2 1/2             | 13 1/4 x 6 5/8     | 12 1/4                | 35.00      |

| Size Shaft Inches | Plain Each | Babbitted Each | Size Flange Inches | Drilled for Fastening Inches | Length Bearing Inches |
|-------------------|------------|----------------|--------------------|------------------------------|-----------------------|
| 1                 | \$4.50     | \$6.25         | 5 3/4 x 3          | 1/2                          | 5                     |
| 1 1/8             | 5.00       | 6.75           | 6 3/8 x 3 1/4      | 1/2                          | 5 1/2                 |
| 1 1/4             | 6.00       | 7.75           | 7 x 3 1/2          | 3/8                          | 6                     |
| 1 3/8             | 7.00       | 8.75           | 7 5/8 x 3 3/4      | 3/8                          | 6 1/2                 |
| 1 1/2             | 8.50       | 10.75          | 8 1/8 x 4          | 3/4                          | 7                     |
| 1 3/4             | 11.50      | 15.00          | 9 1/8 x 4          | 3/4                          | 8                     |
| 2                 | 14.50      | 19.00          | 10 1/8 x 4 1/2     | 3/4                          | 9                     |



**Thrust Ball Bearings**  
FLAT RACES  
BEARING BRONZE RETAINERS



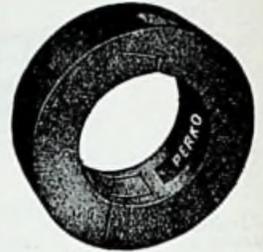
Fig. 786

| Diameter Shaft Inches | Price Each | Outside Diameter Inches | Thickness Inches |
|-----------------------|------------|-------------------------|------------------|
| 5/8                   | \$0.90     | 1 1/4                   | 1/8              |
| 3/4                   | 1.00       | 1 1/2                   | 1/8              |
| 7/8                   | 1.05       | 1 3/4                   | 5/16             |
| 1                     | 1.10       | 1 7/8                   | 5/16             |
| 1 1/8                 | 1.25       | 2 1/4                   | 5/16             |
| 1 1/4                 | 1.30       | 2 1/2                   | 5/16             |
| 1 3/8                 | 1.65       | 2 3/4                   | 5/16             |
| 1 1/2                 | 1.65       | 2 7/8                   | 5/16             |
| 1 5/8                 | 2.20       | 2 7/8                   | 5/16             |
| 1 3/4                 | 2.20       | 3 1/2                   | 5/16             |
| 2                     | 2.85       | 3 1/2                   | 5/16             |
| 2 1/4                 | 3.10       | 3 3/4                   | 5/16             |
| 2 1/2                 | 3.60       | 3 3/4                   | 5/16             |

**Safety Shaft Collars**  
CAST SEMI STEEL—MACHINED



Solid Type  
Fig. 787



Split Type  
Fig. 788

| Shaft Size Inches | Solid Type Price Each | Split Type Price Each |
|-------------------|-----------------------|-----------------------|
| 3/4               | \$0.45                | \$0.65                |
| 7/8               | .45                   | .70                   |
| 1                 | .55                   | .75                   |
| 1 1/8             | .60                   | .85                   |
| 1 1/4             | .70                   | .95                   |
| 1 3/8             | .75                   | 1.00                  |
| 1 1/2             | .80                   | 1.10                  |
| 1 3/4             | 1.00                  | 1.30                  |
| 2                 | 1.10                  | 1.50                  |

**Thrust Ball Bearings**  
GROOVED RACES  
PRESSED STEEL RETAINERS

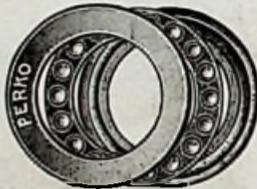


Fig. 942

| Diameter Shaft Inches | Price Each | Outside Diameter Inches | Thickness Inches |
|-----------------------|------------|-------------------------|------------------|
| 3/8                   | \$1.00     | 1 1/4                   | 1/8              |
| 1/2                   | 1.10       | 1 1/2                   | 1/8              |
| 5/8                   | 1.15       | 1 3/4                   | 5/16             |
| 1                     | 1.25       | 1 7/8                   | 5/16             |
| 1 1/8                 | 1.35       | 2 1/4                   | 5/16             |
| 1 1/4                 | 1.40       | 2 1/2                   | 5/16             |
| 1 3/8                 | 1.75       | 2 3/4                   | 5/16             |
| 1 1/2                 | 1.85       | 2 7/8                   | 5/16             |
| 1 5/8                 | 2.20       | 2 7/8                   | 5/16             |
| 1 3/4                 | 2.20       | 3 1/2                   | 5/16             |
| 2                     | 2.85       | 3 1/2                   | 5/16             |
| 2 1/4                 | 3.10       | 3 3/4                   | 5/16             |
| 2 1/2                 | 3.40       | 3 3/4                   | 5/16             |

**Flat Bearings**

BABBITTED



Fig. 789

| For Shaft Size Inches | Price Each | Size of Base Inches |
|-----------------------|------------|---------------------|
| 3/4                   | \$1.10     | 2 x 5 1/4           |
| 7/8                   | 1.30       | 2 3/4 x 5 3/8       |
| 1                     | 1.30       | 2 3/4 x 5 3/8       |
| 1 1/8                 | 1.60       | 3 3/8 x 6           |
| 1 1/4                 | 1.60       | 3 3/8 x 6           |
| 1 3/8                 | 1.95       | 3 7/8 x 7           |
| 1 1/2                 | 1.95       | 3 7/8 x 7           |
| 1 3/4                 | 2.75       | 4 1/2 x 7 1/4       |
| 2                     | 3.50       | 4 3/4 x 7 1/2       |

**Intermediate Bearings**

BABBITTED

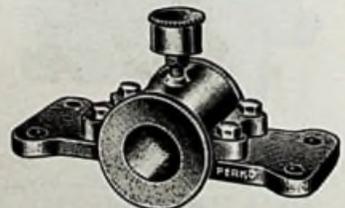


Fig. 941

| Diameter Shaft Inches | Price Each | Length Overall Inches | Length Bearing Inches |
|-----------------------|------------|-----------------------|-----------------------|
| 1                     | \$3.35     | 7 1/4                 | 3 1/2                 |
| 1 1/8                 | 3.60       | 8 1/4                 | 3 3/4                 |
| 1 1/4                 | 4.00       | 8 1/4                 | 3 3/4                 |
| 1 3/8                 | 4.25       | 8 1/4                 | 3 3/4                 |
| 1 1/2                 | 4.50       | 9 1/4                 | 4 1/4                 |
| 1 3/4                 | 5.00       | 9 1/4                 | 4 1/4                 |
| 2                     | 5.55       | 10 1/2                | 5                     |

**Thrust Ball Bearings**  
GROOVED RACES  
STEEL RETAINING BAND



Fig. 943

| Diam. Shaft Inches | Price Each | Outside Diam. Inches |
|--------------------|------------|----------------------|
| 3/8                | \$.90      | 1 1/4                |
| 1/2                | 1.00       | 1 1/2                |
| 5/8                | 1.00       | 1 3/4                |
| 1                  | 1.10       | 1 7/8                |
| 1 1/8              | 1.25       | 2 1/4                |
| 1 1/4              | 1.25       | 2 1/2                |
| 1 3/8              | 1.65       | 2 3/4                |
| 1 1/2              | 1.65       | 2 7/8                |
| 1 5/8              | 2.20       | 2 7/8                |
| 1 3/4              | 2.20       | 3 1/2                |
| 2                  | 2.85       | 3 1/2                |
| 2 1/4              | 3.10       | 3 3/4                |
| 2 1/2              | 3.40       | 3 3/4                |

Above prices do not include grease cup.

## "Northeast" Thrust and Intermediate Bearing Combined

ALL ENCLOSED—RETAINS GREASE

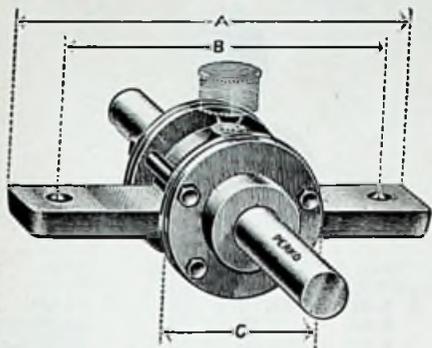


Fig. 742

No more dry or burnt out thrust bearings due to lack of grease.

A heavy housing containing two sets of thrust bearings for forward and reverse. Dirt cannot get in, grease cannot get out.

| For Size Shaft Inches | Price Each | A Inches | B Inches | C Inches |
|-----------------------|------------|----------|----------|----------|
| 5/8                   | \$7.70     | 10 1/2   | 9 1/8    | 3 1/4    |
| 3/4                   | 8.80       | 10 1/2   | 9 3/8    | 3 1/4    |
| 7/8                   | 10.00      | 10 1/2   | 9 1/4    | 3 1/4    |
| 1                     | 11.00      | 11       | 9 1/2    | 3 1/2    |
| 1 1/8                 | 12.10      | 11 1/4   | 9        | 3 1/2    |
| 1 1/4                 | 13.20      | 11 1/4   | 9        | 4 1/8    |
| 1 1/2                 | 15.40      | 11 1/4   | 9        | 4 1/8    |
| 1 3/4                 | 17.60      | 11 1/4   | 9        | 4 1/8    |
| 1 7/8                 | 19.80      | 12       | 10       | 4 1/2    |
| 2                     | 22.00      | 12       | 10       | 4 1/2    |

## Rear Bearings

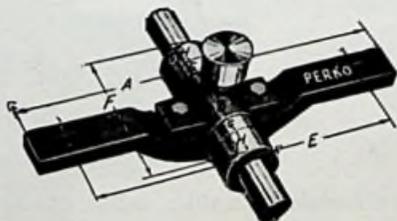


Fig. 790

Prices apply to rear bearing only. Collars and thrust bearings shown on cut are not included.

| Shaft Size Inches | Price Each | A Inches | E Inches | F Inches |
|-------------------|------------|----------|----------|----------|
| 7/8               | \$3.50     | 7 7/8    | 6        | 5 1/4    |
| 1                 | 4.25       | 13 1/2   | 10 3/4   | 5 11/8   |
| 1 1/8             | 4.25       | 13 1/2   | 10 3/4   | 5 11/8   |
| 1 1/4             | 5.00       | 15       | 12       | 6 1/8    |
| 1 3/8             | 5.00       | 15       | 12       | 6 1/8    |
| 1 1/2             | 6.00       | 16 1/2   | 13 1/2   | 7 1/8    |
| 1 3/4             | 7.00       | 20       | 16 1/2   | 7 1/8    |
| 2                 | 10.00      | 20       | 16 1/2   | 8 3/8    |

## Shaft Couplings

CAST IRON

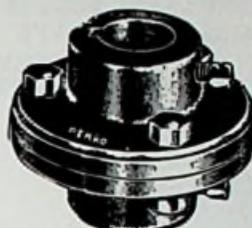


Fig. 327

| No. | Price Each | Size Shaft Inches | Diam. Flange Inches | Length Overall Inches |
|-----|------------|-------------------|---------------------|-----------------------|
| 1   | \$2.80     | 3/4 - 7/8 - 1     | 4                   | 3 1/2                 |
| 2   | 3.40       | 3/4 to 1 1/2      | 4 1/2               | 4 1/8                 |
| 3   | 4.10       | 1 1/8 to 1 1/2    | 5                   | 4 3/4                 |
| 14  | 6.75       | 1 to 2            | 6                   | 6 1/2                 |

### SIZE OF KEYWAY IN SHAFT COUPLINGS

| Size Shaft Inches | Size Keyway Inches |
|-------------------|--------------------|
| 3/4 - 7/8         | 1/8                |
| 1 - 1 1/8         | 1/4                |
| 1 1/4             | 3/8                |
| 1 3/8 - 1 1/2     | 3/8                |
| 1 5/8 - 1 3/4     | 1/2                |
| 1 7/8 - 2         | 1/2                |

## Universal Joints

DROP-FORGED STEEL

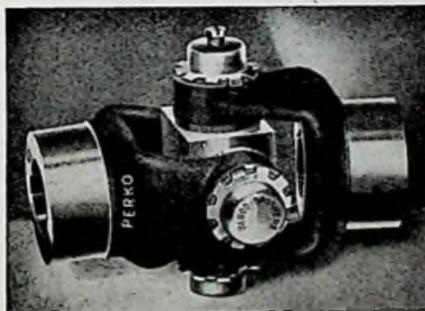


Fig. 791

An extremely rugged joint designed principally for marine use, turns in a small circle and is lubricated through a simple opening, the use of these joints will reduce vibration and lengthen the life of the boat and motor.

| Size No. | Price Single Joint Each | Price Double Joint Each | Maximum Shaft Diameter Inches | Diameter Swing Inches | Length Single Joint Inches |
|----------|-------------------------|-------------------------|-------------------------------|-----------------------|----------------------------|
| 1        | \$10.40                 | \$18.80                 | 1 3/8                         | 4 3/8                 | 7 1/2                      |
| 2        | 14.00                   | 25.30                   | 1 1/2                         | 5 3/8                 | 7 1/2                      |
| 3        | 17.80                   | 30.40                   | 1 7/8                         | 5 3/4                 | 8 1/2                      |
| 4        | 21.80                   | 37.25                   | 1 7/8                         | 6 1/8                 | 8 1/2                      |
| 5        | 32.80                   | 60.00                   | 2 1/8                         | 6 3/4                 | 10 1/2                     |
| 6        | 65.00                   | 148.00                  | 2 3/4                         | 8 3/8                 | 14 1/2                     |

## Columbian Propellers

MANGANESE BRONZE  
AILSA CRAIG TYPE

FOR GENERAL ALL AROUND USE, THE MOST  
POPULAR OF ALL COLUMBIAN PROPELLERS

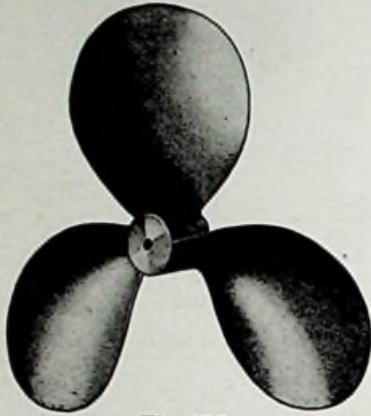


Fig. 809

| Diam.<br>Inches | Blade  |        | Extra for<br>Boring and<br>Keyseating |
|-----------------|--------|--------|---------------------------------------|
|                 | 3      | 2      |                                       |
| 8               | \$7.30 | \$5.50 | \$1.70                                |
| 9               | 8.30   | 5.75   | 1.70                                  |
| 10              | 8.80   | 6.00   | 1.70                                  |
| 11              | 9.20   | 6.60   | 1.80                                  |
| 12              | 9.95   | 7.80   | 2.05                                  |
| 13              | 10.85  | 9.00   | 2.15                                  |
| 14              | 12.70  | 10.20  | 2.30                                  |
| 15              | 14.05  | 11.40  | 2.65                                  |
| 16              | 16.05  | 13.20  | 2.65                                  |
| 17              | 18.00  | 13.80  | 3.00                                  |
| 18              | 19.20  | 14.40  | 3.00                                  |
| 19              | 23.40  | 17.40  | 3.30                                  |
| 20              | 27.60  | 20.40  | 3.30                                  |
| 21              | 33.00  | 22.20  | 3.70                                  |
| 22              | 38.40  | 24.00  | 3.70                                  |
| 23              | 42.60  | 26.40  | 4.20                                  |
| 24              | 46.80  | 28.80  | 4.20                                  |
| 25              | 51.00  | 32.40  | 4.80                                  |
| 26              | 55.20  | 36.00  | 4.80                                  |
| 27              | 61.80  | 40.80  | 5.50                                  |
| 28              | 67.00  | 45.60  | 5.50                                  |
| 30              | 74.40  | 55.80  | 6.10                                  |
| 32              | 84.00  | 62.40  | 7.00                                  |
| 33              | 90.00  | 67.20  | 8.40                                  |
| 34              | 94.80  | 70.80  | 8.40                                  |
| 35              | 100.20 | 75.00  | 9.60                                  |
| 36              | 104.40 | 78.00  | 9.60                                  |
| 38              | 124.80 | 96.00  | 11.30                                 |
| 40              | 160.80 | 120.00 | 12.85                                 |
| 42              | 172.80 |        | 16.20                                 |
| 44              | 201.60 |        | 17.70                                 |
| 46              | 240.00 |        | 19.20                                 |
| 48              | 282.00 |        | 24.00                                 |
| 50              | 306.00 |        | 31.00                                 |

## Columbian Propellers

PEERLESS QUALITY  
AILSA CRAIG TYPE

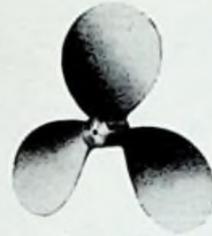


Fig. 739

| Diam.<br>Inches | Three<br>Blade | Boring | Diam.<br>Inches | Three<br>Blade | Boring |
|-----------------|----------------|--------|-----------------|----------------|--------|
|                 |                |        |                 |                |        |
| 9               | 5.53           | 1.70   | 26              | 36.80          | 4.87   |
| 10              | 5.87           | 1.70   | 27              | 41.20          | 5.53   |
| 11              | 6.13           | 1.80   | 28              | 44.67          | 5.53   |
| 12              | 6.63           | 2.05   | 30              | 49.60          | 6.13   |
| 13              | 7.23           | 2.15   | 32              | 56.00          | 7.00   |
| 14              | 8.47           | 2.30   | 33              | 60.00          | 8.40   |
| 15              | 9.37           | 2.65   | 34              | 63.20          | 8.40   |
| 16              | 10.70          | 2.65   | 35              | 66.80          | 9.60   |
| 17              | 12.00          | 3.00   | 36              | 69.60          | 9.60   |
| 18              | 12.80          | 3.00   | 38              | 83.20          | 11.30  |
| 19              | 15.60          | 3.30   | 40              | 107.20         | 12.85  |
| 20              | 18.40          | 3.30   | 42              | 115.20         | 16.20  |
| 21              | 22.00          | 3.70   | 44              | 134.40         | 17.70  |
| 22              | 25.60          | 3.70   | 46              | 160.00         | 19.20  |
| 23              | 28.40          | 4.20   | 48              | 188.00         | 24.00  |
| 24              | 31.20          | 4.20   | 50              | 204.00         | 31.00  |

## Speed Boat Rudders

CAST MANGANESE BRONZE

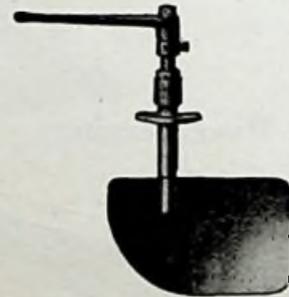


Fig. 813

Furnished complete with tiller, collar, nut and rudder port.

## High Speed Type

STYLE S. S.

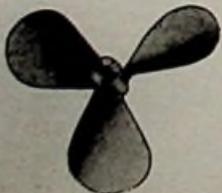


Fig. 810

Popular in certain sections of the  
country for high speed boats.

PRICES SAME AS AILSA  
CRAIG TYPE ABOVE

| No. | Size of Rudder<br>Inches | Diam. of Stock, Ins. | Total length of<br>Stock, Inches | Length of Tiller, Ins. | Suitable for Boats       | Price Complete | Extra for longer<br>stocks, per inch | Rudder only with<br>straight stock |
|-----|--------------------------|----------------------|----------------------------------|------------------------|--------------------------|----------------|--------------------------------------|------------------------------------|
| 1   | 9x14                     | 1                    | 12                               | 12                     | 16 ft. to<br>22 ft. long | \$20.90        | \$.12                                | \$10.1                             |
| 2   | 10x16                    | 1                    | 12                               | 12                     | 20 ft. to<br>26 ft. long | 22.60          | .12                                  | 12.8                               |
| 3   | 11x18                    | 1 1/2                | 12                               | 14                     | 26 ft. to<br>35 ft. long | 25.40          | .15                                  | 14.5                               |
| 4   | 12x20                    | 1 1/2                | 12                               | 16                     | 30 ft. to<br>40 ft. long | 31.90          | .20                                  | 19.2                               |

### Hyspeed Rudder and Stock

CAST MANGANESE BRONZE

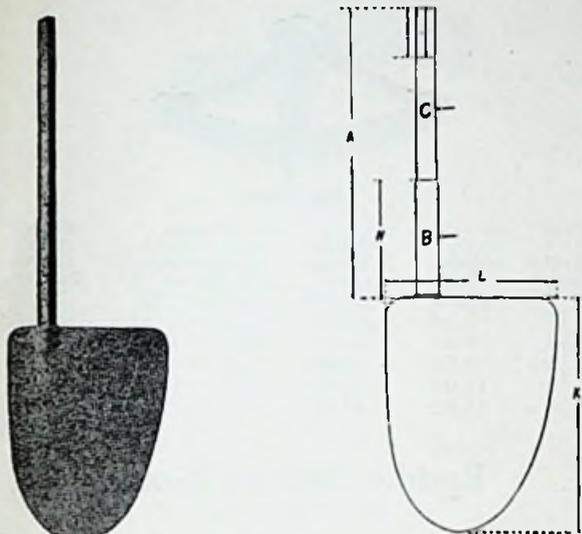


Fig. 818

Constructed in perfectly balanced proportion. Designed for express cruisers, runabouts, speedboats and all boats not carrying a scag.

DIMENSIONS, INCHES

| No. | A  | B     | C     | I | K  | L      | N      | Price Each |
|-----|----|-------|-------|---|----|--------|--------|------------|
| 1   | 16 | 1     | 1 1/8 | 3 | 12 | 9      | 9      | 10.25      |
| 2   | 18 | 1 1/4 | 1 1/8 | 3 | 14 | 10 1/2 | 9 1/2  | 12.80      |
| 3   | 18 | 1 1/4 | 1 1/8 | 4 | 16 | 12     | 10     | 14.50      |
| 4   | 24 | 1 3/8 | 1 3/8 | 4 | 18 | 13 1/2 | 10 1/2 | 20.25      |
| 5   | 24 | 1 1/2 | 1 1/2 | 4 | 20 | 15     | 11     | 28.00      |
| 6   | 30 | 1 3/4 | 1 3/4 | 4 | 22 | 16 1/2 | 11 1/2 | 41.00      |
| 7   | 36 | 2 1/8 | 2     | 5 | 24 | 18     | 12     | 56.00      |
| 8   | 40 | 2 1/4 | 2     | 5 | 26 | 20     | 12 1/2 | 70.00      |

### Launch and Cruiser Rudders

CAST MANGANESE BRONZE

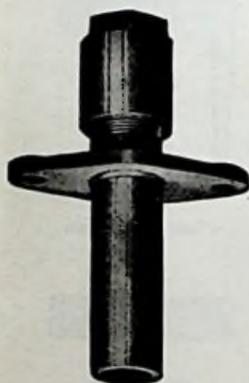


Fig. 816

| Blade Size Inches | Blade Thickness Inches | Diam. of Stock Inches | Total Length of Stock, In. | Longer Stocks Per Inch | Price Each |
|-------------------|------------------------|-----------------------|----------------------------|------------------------|------------|
| 12 x 12           | 3/8                    | 1                     | 12                         | \$.12                  | \$10.25    |
| 14 x 14           | 1/4                    | 1                     | 12                         | .12                    | 13.75      |
| 16 x 16           | 1/4                    | 1                     | 12                         | .12                    | 16.00      |
| 18 x 16           | 1/4                    | 1                     | 12                         | .12                    | 17.00      |
| 18 x 18           | 1/4                    | 1                     | 12                         | .12                    | 19.00      |
| 20 x 18           | 1/4                    | 1 1/4                 | 18                         | .20                    | 21.00      |
| 20 x 20           | 1/4                    | 1 1/4                 | 18                         | .20                    | 24.00      |
| 22 x 18           | 1/4                    | 1 1/4                 | 18                         | .20                    | 24.00      |
| 22 x 20           | 3/8                    | 1 1/4                 | 18                         | .20                    | 32.00      |
| 22 x 22           | 3/8                    | 1 1/4                 | 18                         | .20                    | 33.00      |
| 24 x 20           | 3/8                    | 1 1/4                 | 18                         | .20                    | 33.00      |
| 24 x 22           | 3/8                    | 1 1/4                 | 18                         | .20                    | 33.50      |
| 24 x 24           | 3/8                    | 1 1/4                 | 18                         | .20                    | 34.50      |
| 24 x 26           | 3/8                    | 1 1/2                 | 22                         | .24                    | 50.00      |
| 26 x 26           | 3/8                    | 1 1/2                 | 22                         | .24                    | 50.00      |

### Bronze Rudder Posts

WITH STUFFING BOX



| For Diam. Stock Inches | Price Each |
|------------------------|------------|
| 1                      | \$5.50     |
| 1 1/4                  | 6.00       |
| 1 1/2                  | 7.50       |
| 1 3/4                  | 8.00       |
| 1 1/2                  | 9.00       |

Fig. 814

### Rudder Shoes or Skags

CAST MANGANESE BRONZE

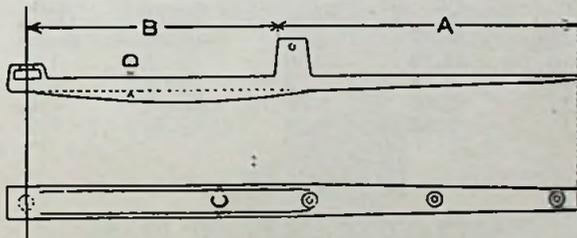


Fig. 817  
DIMENSIONS, INCHES

| No. | A      | B  | C     | D   | Price Each Plain |
|-----|--------|----|-------|-----|------------------|
| 1   | 18     | 14 | 2     | 1/4 | \$ 6.50          |
| 2   | 20     | 15 | 2 1/4 | 1/8 | 7.50             |
| 3   | 21 1/2 | 16 | 2 1/2 | 3/8 | 10.00            |
| 4   | 24     | 17 | 2 3/4 | 1/2 | 12.00            |
| 5   | 26     | 18 | 3     | 1/2 | 15.00            |
| 6   | 28     | 20 | 3     | 1/2 | 18.00            |

Special sizes and styles furnished to order, send sketch.

### Bronze Rudder Collars

| For Diam. Stock Inches | Price Each |
|------------------------|------------|
| 1                      | \$1.00     |
| 1 1/4                  | 1.00       |
| 1 1/2                  | 1.25       |
| 1 3/4                  | 1.50       |
| 1 1/2                  | 1.80       |



Fig. 815



## Galvanized Rudders GALVANIZED FORGED STEEL



Fig. 647

| Size No. | Galv. Each | Size Plate Inches    | Length Rudder Post Inches | Diam. Rudder Post Inches | Weight Each Pounds |
|----------|------------|----------------------|---------------------------|--------------------------|--------------------|
| 0        | \$ 5.00    | 12x12x $\frac{1}{8}$ | 40                        | $\frac{3}{4}$            | 11                 |
| 1        | 6.00       | 14x14x $\frac{1}{8}$ | 42                        | $\frac{3}{4}$            | 13                 |
| 2        | 8.50       | 16x16x $\frac{1}{8}$ | 48                        | 1                        | 25                 |
| 3        | 11.00      | 18x18x $\frac{1}{8}$ | 52                        | 1                        | 35                 |

## Rudder Skags

DROP FORGED STEEL AND BRONZE



Fig. 649

| Size No. | Galv. Each | Plain Bronze Each | Dimensions Inches                  | For Rudder Post Inches | Weight Each Pounds |
|----------|------------|-------------------|------------------------------------|------------------------|--------------------|
| 0        | \$2.00     | \$4.00            | 24x1 $\frac{1}{2}$ x $\frac{3}{8}$ | $\frac{3}{4}$          | 4 $\frac{1}{2}$    |
| 1        | 3.00       | 7.00              | 30x1 $\frac{3}{4}$ x $\frac{1}{2}$ | $\frac{3}{4}$          | 9                  |
| 2        | 5.00       | 14.00             | 42x2x $\frac{3}{8}$                | 1                      | 17                 |

## Straight Tillers

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 650

| Length Inches | Galv. Each | Plain Bronze Each | Size of Square Hole Inches    | Weight Each (Iron) Pounds |
|---------------|------------|-------------------|-------------------------------|---------------------------|
| 8             | \$1.10     | \$2.00            | $\frac{1}{8}$ x $\frac{1}{8}$ | 1                         |
| 10            | 1.25       | 2.25              | $\frac{1}{8}$ x $\frac{1}{8}$ | 1 $\frac{1}{4}$           |
| 12            | 1.75       | 2.50              | $\frac{3}{4}$ x $\frac{3}{4}$ | 2 $\frac{1}{4}$           |
| 15            | 2.25       | 5.00              | $\frac{7}{8}$ x $\frac{3}{8}$ | 3 $\frac{1}{2}$           |

## Rudder Pipes

GALVANIZED STEEL AND BRASS



Fig. 652

| Size No. | Galv. Each | Brass Each | Length Inches | Weight Each Pounds |
|----------|------------|------------|---------------|--------------------|
| 0        | \$1.00     | \$2.25     | 12            | 1 $\frac{3}{8}$    |
| 1        | 1.00       | 2.25       | 12            | 1 $\frac{3}{8}$    |
| 2        | 1.50       | 3.50       | 15            | 2                  |
| 3        | 1.75       | 4.50       | 18            | 2 $\frac{1}{2}$    |

## Quadrant Tillers

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 651

| Radius Inches | Galv. Each | Plain Bronze Each | Square Hole Adjustable Inches      | Weight Each (Iron) Pounds |
|---------------|------------|-------------------|------------------------------------|---------------------------|
| 7             | \$2.00     | \$5.00            | $\frac{1}{8}$ to $\frac{3}{4}$     | 3                         |
| 10            | 3.50       | 7.00              | $\frac{1}{8}$ to 1                 | 5 $\frac{1}{4}$           |
| 12            | 5.00       | 10.00             | $\frac{3}{4}$ to 1 $\frac{1}{4}$   | 8 $\frac{1}{2}$           |
| 15            | 7.50       | 14.00             | $\frac{3}{4}$ to 1 $\frac{1}{4}$   | 13                        |
| 18            | 13.00      | 24.00             | 1 to 1 $\frac{3}{8}$               | 27                        |
| 24            | 25.00      | 45.00             | 1 $\frac{1}{2}$ to 1 $\frac{3}{4}$ | 46                        |

## Rudder Stuffing Boxes

CAST BRONZE



Fig. 499

| Size No. | For Diam. Rudder Post Inches | Weight Each Ounces | Price Each |
|----------|------------------------------|--------------------|------------|
| 0        | $\frac{3}{4}$                | 6                  | .50        |
| 1        | $\frac{3}{4}$                | 6                  | .50        |
| 2        | 1                            | 7                  | .60        |
| 3        | 1 $\frac{1}{4}$              | 7                  | .90        |

## Bronze Rudder Braces

CAST BRONZE—PLAIN

Strap Gudgeon

Pintle



Fig. 1070

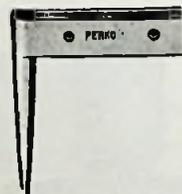


Fig. 1071

Plate Gudgeon

Plate Gudgeon



Fig. 1072



Fig. 1073

Screw Gudgeon



Fig. 1074

| No. | Between Straps Inches | Fig. 1071 Pintles Each | Fig. 1070 Strap Gudgeon Each | Fig. 1072 Plate Gudgeon Each | Fig. 1073 Plate Gudgeon Each | Fig. 1074 Screw Gudgeon Each |
|-----|-----------------------|------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 0   | $\frac{1}{2}$         | \$ .25                 | \$ .22                       | \$ .15                       | \$ .15                       | \$ .08                       |
| 1   | $\frac{5}{8}$         | .30                    | .25                          | .20                          | .20                          | .10                          |
| 2   | $\frac{3}{4}$         | .35                    | .28                          | .25                          | .25                          | .15                          |



## Strap Rudder Braces

GALVANIZED MALLEABLE IRON

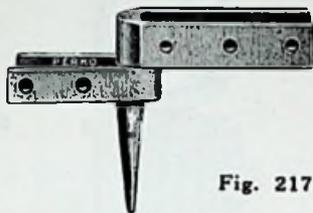


Fig. 217

| Size No. | Per Set Complete | Pintles Only Pair | Straps Only Pair | Between Straps Inches | Weight Per Set Pounds |
|----------|------------------|-------------------|------------------|-----------------------|-----------------------|
| 00       | \$ .50           | \$ .40            | \$ .25           | $\frac{3}{8}$         | $\frac{3}{4}$         |
| 0        | .65              | .50               | .33              | $\frac{3}{4}$         | 1                     |
| 1        | 1.00             | .70               | .50              | $\frac{3}{4}$         | 1 $\frac{1}{2}$       |
| 2        | 1.30             | .90               | .60              | 1                     | 2                     |
| 3        | 1.60             | 1.10              | .75              | 1 $\frac{1}{4}$       | 2 $\frac{1}{2}$       |
| 4        | 2.30             | 1.50              | 1.05             | 1 $\frac{3}{4}$       | 4 $\frac{1}{4}$       |

Set consists of two Pintles and two Straps.

## Screw Rudder Braces

GALVANIZED MALLEABLE IRON

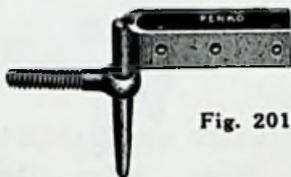


Fig. 201

| Size No. | Per Set Complete | Pintles Only Pair | Gudgeons Only Pair | Between Straps Inches | Weight Per Set Pounds |
|----------|------------------|-------------------|--------------------|-----------------------|-----------------------|
| 1        | \$ .40           | \$ .30            | \$ .17             | $\frac{5}{8}$         | $\frac{3}{8}$         |
| 2        | .50              | .38               | .24                | $\frac{3}{4}$         | $\frac{3}{4}$         |
| 3        | .80              | .70               | .28                | $\frac{7}{8}$         | 1                     |
| 4        | .90              | .75               | .28                | 1 $\frac{1}{8}$       | 1 $\frac{1}{2}$       |

## Plate Rudder Brace

GALVANIZED MALLEABLE IRON



Fig. 743

DESIGNED FOR SQUARE STERN BOATS

| Size No. | Price Per Set | Plates Only Per Pair | Straps Only Per Pair | Between Straps Inches | Est. Wt. Per Set in Lbs. |
|----------|---------------|----------------------|----------------------|-----------------------|--------------------------|
| 1        | \$ .50        | \$ .25               | \$ .40               | $\frac{3}{8}$         | $\frac{3}{4}$            |
| 2        | .65           | .33                  | .50                  | $\frac{3}{4}$         | 1                        |
| 3        | 1.00          | .50                  | .70                  | $\frac{7}{8}$         | 1 $\frac{3}{8}$          |
| 4        | 1.30          | .60                  | .90                  | 1                     | 2 $\frac{1}{8}$          |

Set consists of Two Plates and Two Pintles

## Rope Deck Pipes

GALVANIZED CAST IRON AND CAST BRONZE FOR MANILA ROPE

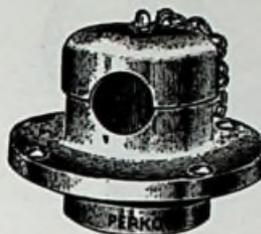


Fig. 741

BRONZE

| For Diam. Rope Inches | Plain Bronze Each | Polished Bronze Each | Inside Diam. Inches | Diam. Flange Inches | Height Above Deck Inches |
|-----------------------|-------------------|----------------------|---------------------|---------------------|--------------------------|
| $\frac{3}{4}$ & 1     | \$4.00            | \$4.80               | 1 $\frac{3}{4}$     | 3 $\frac{3}{8}$     | 1 $\frac{3}{8}$          |
| 1 $\frac{1}{4}$       | 5.00              | 5.80                 | 2 $\frac{1}{8}$     | 4 $\frac{3}{4}$     | 2 $\frac{3}{8}$          |

GALVANIZED

| For diam. Rope Inches | Price Each | Inside Diam. Inches | Diam. Flange Inches | Height Above Deck Inches |
|-----------------------|------------|---------------------|---------------------|--------------------------|
| $\frac{3}{4}$ and 1   | \$1.55     | 2                   | 4 $\frac{3}{8}$     | 1 $\frac{7}{8}$          |
| 1 $\frac{1}{4}$       | 2.50       | 2 $\frac{1}{2}$     | 4 $\frac{5}{8}$     | 2                        |

## Chain Deck Pipes

GALVANIZED CAST IRON AND BRONZE



Fig. 341

| Inside Diam. Inches | Galv. Each | Polished Bronze Each | Nickel Plated Each | Chrom. Plated Each | For Chain Diam. Inches | Weight Each in Lbs. |
|---------------------|------------|----------------------|--------------------|--------------------|------------------------|---------------------|
| 1 $\frac{3}{4}$     | \$1.45     | \$3.50               | \$4.50             | \$6.00             | $\frac{1}{2}$          | 1 $\frac{1}{8}$     |
| 2                   | 1.55       | 4.50                 | 5.50               | 7.00               | $\frac{1}{4}$          | 2 $\frac{3}{8}$     |
| 2 $\frac{1}{2}$     | 2.50       | 6.50                 | 7.50               | 9.00               | $\frac{3}{8}$          | 4 $\frac{3}{8}$     |
| 3                   | 2.90       |                      |                    |                    | $\frac{1}{2}$          | 5 $\frac{7}{8}$     |
| 3 $\frac{1}{2}$     | 4.60       |                      |                    |                    | $\frac{3}{4}$          | 9 $\frac{1}{4}$     |
| 4                   | 5.70       |                      |                    |                    | $\frac{3}{4}$          | 13                  |

## Yacht Chain Deck Pipes

GALVANIZED CAST IRON AND BRONZE



Fig. 342

| Size No. | Galv. Each | Polished Bronze Each | Nickel Plated Each | Chrom. Plated Each | For Chain Diam. Inches | Diam. Flange Inches |
|----------|------------|----------------------|--------------------|--------------------|------------------------|---------------------|
| 1        | \$3.20     | \$5.00               | \$6.00             | \$7.50             | $\frac{1}{2}$          | 3 $\frac{1}{2}$     |
| 2        | 3.80       | 6.00                 | 7.00               | 8.50               | $\frac{3}{8}$          | 4 $\frac{1}{4}$     |
| 3        | 5.75       | 10.00                | 11.00              | 14.00              | $\frac{1}{2}$          | 5                   |

### Ribbed Socket Rowlocks

GALVANIZED—MALLEABLE AND CAST IRON



Fig. 638

#### GALVANIZED CAST IRON

| Size No. | Complete Per Pair | Horns Only Per Pair | Sockets Only Per Pair | Opening Inches | Weight Per Pair Pounds |
|----------|-------------------|---------------------|-----------------------|----------------|------------------------|
| 0        | \$ .25            | \$.15               | \$.15                 | 1 3/4          | 1 1/8                  |
| 1        | .28               | .18                 | .15                   | 2              | 1 1/4                  |
| 2        | .40               | .30                 | .20                   | 2 1/4          | 1 3/4                  |
| 3        | .70               | .50                 | .30                   | 2 1/2          | 2 3/4                  |

#### GALVANIZED MALLEABLE IRON

|   |     |     |     |       |       |
|---|-----|-----|-----|-------|-------|
| 1 | .45 | .30 | .25 | 2     | 1 1/4 |
| 2 | .60 | .40 | .35 | 2 1/4 | 1 3/4 |

### Standard Socket Rowlocks

GALVANIZED MALLEABLE IRON



Fig. 639

| Size No. | Complete Per Pair | Horns Only Per Pair | Sockets Only Per Pair | Opening Inches | Weight Per Pair Pounds |
|----------|-------------------|---------------------|-----------------------|----------------|------------------------|
| 0        | \$ .50            | \$.35               | \$.25                 | 1 3/4          | 1 1/8                  |
| 1        | .50               | .35                 | .25                   | 2              | 1 1/4                  |
| 1 1/2    | .60               | .45                 | .25                   | 2 1/8          | 1 1/2                  |
| 2        | .70               | .50                 | .35                   | 2 1/4          | 1 3/4                  |
| 3        | 1.00              | .70                 | .50                   | 2 1/2          | 2 3/8                  |
| 4        | 1.25              | .95                 | .50                   | 3              | 3 3/8                  |

### Swivel Rowlocks

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 640

#### GALVANIZED

| Size No. | Complete Per Pair | Horns Only Per Pair | Plates Only Per Pair | Opening Inches | Weight Per Pair Pounds |
|----------|-------------------|---------------------|----------------------|----------------|------------------------|
| 1        | \$1.25            | \$.70               | \$.70                | 2              | 2                      |
| 2        | 1.50              | .85                 | .85                  | 2 1/4          | 2 7/8                  |

#### CAST BRONZE

| Size No. | Plain Complete Per Pr. | Polished Complete Per Pr. | Horns Only Plain Per Pr. | Plates Only Pol. Per Pr. | Weight Per Pair Pounds |
|----------|------------------------|---------------------------|--------------------------|--------------------------|------------------------|
| 1        | 2.00                   | 3.00                      | 1.15                     | 1.65                     | 1.15 1.65              |

### Davis Pattern Rowlocks

GALVANIZED—MALLEABLE AND CAST IRON

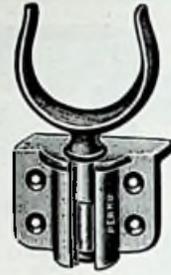


Fig. 641

| Size No. | Galv. Per pair | Plain Bronze Per pair | Polished Bronze Per pair | Opening Inches | Weight Per pair Pounds |
|----------|----------------|-----------------------|--------------------------|----------------|------------------------|
| 0        | \$ .95         |                       |                          | 1 3/4          | 2                      |
| 1        | .95            | \$1.50                | \$2.50                   | 2              | 2                      |
| 2        | 1.25           |                       |                          | 2 1/4          | 2 3/4                  |

### Round Socket Rowlocks

GALVANIZED IRON AND BRONZE



Fig. 642

#### GALVANIZED MALLEABLE IRON

| Size No. | Complete Per Pair | Horns Only Per Pair | Sockets Only Per Pair | Inside Diam. Inches | Weight Per Pair Pounds |
|----------|-------------------|---------------------|-----------------------|---------------------|------------------------|
| 0        | \$ .50            | \$.35               | \$.25                 | 2                   | 1 1/8                  |
| 1        | .50               | .35                 | .25                   | 2 1/4               | 1 1/4                  |
| 2        | .65               | .50                 | .25                   | 2 1/2               | 1 1/2                  |

#### GALVANIZED CAST IRON

|   |     |     |     |       |       |
|---|-----|-----|-----|-------|-------|
| 1 | .36 | .20 | .20 | 2 1/4 | 1 1/4 |
|---|-----|-----|-----|-------|-------|

#### PLAIN BRONZE

|   |     |     |     |       |       |
|---|-----|-----|-----|-------|-------|
| 1 | .80 | .60 | .30 | 2 1/4 | 1 1/4 |
|---|-----|-----|-----|-------|-------|

#### POLISHED BRONZE

|   |      |      |     |       |       |
|---|------|------|-----|-------|-------|
| 1 | 1.75 | 1.25 | .60 | 2 1/4 | 1 1/4 |
|---|------|------|-----|-------|-------|

### North River Rowlocks

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 643

Opening Inches  
2 1/2

Weight Per Pair Pounds  
1 3/8

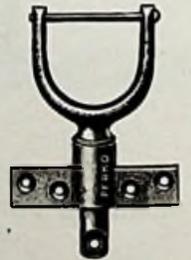


Fig. 644

|                       | Complete Per Pair | Horns Only Per Pair | Sockets Only Per Pair |
|-----------------------|-------------------|---------------------|-----------------------|
| Galv., Fig. 643       | \$.50             | \$.35               | \$.25                 |
| Pl. Bronze, Fig. 643  | .80               | .60                 | .30                   |
| Pol. Bronze, Fig. 643 | 1.75              | 1.25                | .60                   |
| Galv., Fig. 644       | .60               | .35                 | .35                   |



**Side Plate Rowlocks**  
GALVANIZED MALLEABLE IRON

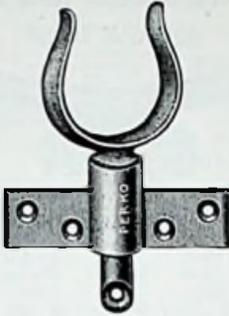


Fig. 645

| Size No. | Complete Per Pair | Horns Only Per Pair | Sockets Only Per Pair | Opening Inches | Weight Per Pair Pounds |
|----------|-------------------|---------------------|-----------------------|----------------|------------------------|
| 0        | \$.75             | \$.50               | \$.35                 | 1 3/4          | 1 3/8                  |
| 1        | .75               | .50                 | .35                   | 2              | 1 3/4                  |

**Boston Side Plate Rowlocks**  
GALVANIZED MALLEABLE IRON AND BRONZE

With Chain and Without Chain



Fig. 646

| Size No.      | Complete Per Pair | Horns Only Per Pair | Sockets Only Per Pair | Opening Inches | Weight Per Pair Pounds |
|---------------|-------------------|---------------------|-----------------------|----------------|------------------------|
| 1 Galv.       | \$.70             | \$.35               | \$.45                 | 2              | 1 1/2                  |
| 0 Pl. Bronze  | 1.60              | .80                 | .90                   | 1 3/4          | 1 1/2                  |
| 1 Pl. Bronze  | 1.60              | .80                 | .90                   | 2              | 1 1/4                  |
| 0 Pol. Bronze | 2.75              | 1.20                | 1.65                  | 1 3/4          | 1 1/4                  |
| 1 Pol. Bronze | 2.75              | 1.20                | 1.65                  | 2              | 1 1/2                  |

With Chain for Galv. add 10c to above prices.  
With Chain for Bronze add 20c to above prices.

**Boston Socket Rowlocks**  
GALVANIZED MALLEABLE IRON AND BRONZE

With Chain and Without Chain



Fig. 545

| Size No.      | Complete Per Pair | Horns Only Per Pair | Sockets Only Per Pair | Opening Inches | Weight Per Pair Pounds |
|---------------|-------------------|---------------------|-----------------------|----------------|------------------------|
| 0 Galv.       | \$.50             | \$.35               | \$.25                 | 1 3/4          | 7/8                    |
| 1 Galv.       | .50               | .35                 | .25                   | 2              | 1                      |
| 0 Pl. Bronze  | 1.20              | .80                 | .50                   | 1 3/4          | 7/8                    |
| 1 Pl. Bronze  | 1.20              | .80                 | .50                   | 2              | 1                      |
| 0 Pol. Bronze | 2.00              | 1.20                | .90                   | 1 3/4          | 7/8                    |
| 1 Pol. Bronze | 2.00              | 1.20                | .90                   | 2              | 1                      |

With Chain for Galv., add 10c to above prices.  
With Chain for Bronze, add 20c to above prices.  
pintles (straps).

**Boat Hooks**  
GALVANIZED MALLEABLE IRON  
CAST BRONZE AND NICKEL SILVER  
SHARP POINTS—SINGLE HOOK



Fig. 223

| Size No. | For Diam. Pole Inches | Extreme Length Inches | Weight Each Ounces |
|----------|-----------------------|-----------------------|--------------------|
| 0        | 1                     | 7 1/4                 | 7                  |
| 1        | 1 1/4                 | 8 1/4                 | 8                  |
| 2        | 1 1/2                 | 9 3/8                 | 16                 |
| 3        | 2                     | 9 3/4                 | 23                 |

PRICE EACH

| Size No. | Galv. Iron | Pol. Bronze | Nickel Plated | Nickel Silver | Chromium Plated |
|----------|------------|-------------|---------------|---------------|-----------------|
| 0        | \$.45      | \$1.15      | \$1.65        | \$1.75        | \$2.65          |
| 1        | .55        | 1.30        | 1.80          | 1.90          | 2.80            |
| 2        | .70        | 1.75        | 2.25          | 2.50          | 3.25            |
| 3        | .85        | 2.50        | 3.00          | 3.25          | 4.00            |

**BALL POINTS—SINGLE HOOK**



Fig. 224

| Size No. | For Diam. Pole Inches | Extreme Length Inches | Weight Each Ounces |
|----------|-----------------------|-----------------------|--------------------|
| 3 1/2    | 1                     | 7 3/8                 | 8                  |
| 4        | 1 1/4                 | 8 1/4                 | 10                 |
| 5        | 1 1/2                 | 9 3/8                 | 16                 |
| 6        | 2                     | 9 1/2                 | 24                 |

PRICE EACH

| Size No. | Galv. Iron | Pol. Bronze | Nickel Plated | Nickel Silver | Chromium Plated |
|----------|------------|-------------|---------------|---------------|-----------------|
| 3 1/2    | \$.50      | \$1.15      | \$1.65        | \$1.75        | \$2.65          |
| 4        | .55        | 1.30        | 1.80          | 1.90          | 2.80            |
| 5        | .70        | 1.75        | 2.25          | 2.50          | 3.25            |
| 6        | .90        |             |               |               |                 |

**Boat Hook Poles**  
SELECTED



| Diameter Inches | Lengths Feet | Price Per Foot |
|-----------------|--------------|----------------|
| 1 1/8           | 6 to 8       | \$.10          |
| 1 1/4           | 6 to 8       | .12            |
| 1 3/8           | 6 to 10      | .15            |
| 1 1/2           | 8 to 12      | .16            |

PRICE DOES NOT INCLUDE ATTACHING HOOKS TO POLES

**Copper Oar and Paddle Tips**



Fig. 794



Fig. 850

Made of soft sheet copper, will fit any oar and paddle.  
Fig. 794 Oar Tips—Price per Pair.....\$0.25  
Fig. 850 Paddle Tips—Price Each......15

### Boat Cleats

GALV. IRON, CAST BRONZE AND NICKEL SILVER  
OPEN BASE



Fig. 544

| Length<br>Inches | Mall.<br>Iron<br>Each | Cast<br>Iron<br>Each | Polished<br>Bronze<br>Each | Nickel<br>Plated<br>Each | Chrom.<br>Plated<br>Each | Nickel<br>Silver<br>Each |
|------------------|-----------------------|----------------------|----------------------------|--------------------------|--------------------------|--------------------------|
| 3½               | \$ .15                | \$ .10               | \$ .50                     | \$ .70                   | \$1.10                   | \$ .60                   |
| 4                | .20                   | .15                  | .60                        | .80                      | 1.15                     | .75                      |
| 5                | .25                   | .20                  | .70                        | .90                      | 1.40                     | .90                      |
| 6                | .30                   | .25                  | .90                        | 1.15                     | 1.80                     | 1.20                     |
| 8                | .50                   | .40                  | 1.35                       | 1.85                     | 2.45                     | 1.75                     |
| 10               | 1.00                  | .80                  | 2.00                       | 2.65                     | 3.40                     | 2.50                     |
| 12               | 1.25                  | 1.00                 | 3.00                       | 3.75                     | 4.50                     | 3.75                     |
| 14               | 2.00                  | 1.50                 | 5.00                       | 6.00                     | 6.75                     | 6.00                     |
| 18               |                       | 2.75                 |                            |                          |                          |                          |

### Boat or Fender Cleats

GALVANIZED IRON AND BRONZE  
SQUARE BASE



Fig. 583

| Length<br>Inches | Mall.<br>Iron<br>Each | Cast<br>Iron<br>Each | Pol.<br>Bronze<br>Each | Nickel<br>Plated<br>Each | Chrom.<br>Plated<br>Each | Weight<br>Each<br>Ounces |
|------------------|-----------------------|----------------------|------------------------|--------------------------|--------------------------|--------------------------|
| 2                | \$ .12                | \$ .06               | \$ .35                 | \$ .45                   | \$ .95                   | 1                        |
| 2¼               |                       |                      | .35                    | .45                      | .95                      | 1½                       |
| 3                | .19                   | .11                  | .60                    | .75                      | 1.20                     | 2½                       |
| 4                | .43                   | .27                  | .85                    | 1.05                     | 1.45                     | 5                        |
| 5                | .48                   | .33                  | 1.15                   | 1.35                     | 1.85                     | 9                        |
| 6                | .70                   | .50                  | 1.50                   | 1.75                     | 2.40                     | 16                       |

### Hollow Cleats

CLOSED ENDS  
CAST BRONZE AND NICKEL SILVER



Fig. 572

| Length<br>Inches | Weight | Polished<br>Bronze<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each | Nickel<br>Silver<br>Each |
|------------------|--------|----------------------------|--------------------------|----------------------------|--------------------------|
| 4½               | 8 oz.  | \$1.10                     | \$1.30                   | \$2.00                     | \$1.25                   |
| 5½               | 9 oz.  | 1.20                       | 1.40                     | 2.20                       | 1.40                     |
| 6½               | 10 oz. | 1.30                       | 1.55                     | 2.45                       | 1.55                     |
| 8                | 20 oz. | 1.75                       | 2.00                     | 3.20                       | 2.00                     |
| 10               | 2 lbs. | 3.00                       | 3.65                     | 4.50                       | 3.50                     |
| 12               | 3 lbs. | 4.25                       | 5.00                     | 6.00                       | 5.00                     |

### Canoe Cleats

CAST BRONZE



Fig. 763

| Size<br>No. | Length<br>Inches | Polished<br>Bronze<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each |
|-------------|------------------|----------------------------|--------------------------|----------------------------|
| 1           | 2¾               | \$ .35                     | \$ .60                   | \$1.00                     |
| 2           | 2¼               | .50                        | .75                      | 1.20                       |

### Round Base Cleats

GALVANIZED MALLEABLE IRON AND BRASS



Fig. 1044

| Length<br>Inches | Galvanized<br>Each | Polished<br>Brass<br>Each | Diam.<br>Base<br>Inches |
|------------------|--------------------|---------------------------|-------------------------|
| 1¾               |                    | \$ .35                    | 1⅛                      |
| 2¼               | \$ .12             | .40                       | 1⅜                      |
| 3                | .15                | .50                       | 1⅝                      |
| 3½               | .20                | .80                       | 1⅞                      |

### Awning Cleats

GALVANIZED MALLEABLE IRON



Fig. 927

| Length<br>Inches | Per 100 Pieces | Weight<br>Per 100<br>in Lbs. |
|------------------|----------------|------------------------------|
| 4½               | \$4.00         | 4¾                           |
| 6                | 5.50           | 8¾                           |
| 8                | 8.00           | 13¾                          |

### Fender Hooks

CAST BRONZE AND NICKEL SILVER



Fig. 547

| Length<br>Overall<br>Inches<br>1¼ | Width<br>Overall<br>Inches<br>1¼ | Polished<br>Bronze<br>Each | Nickel<br>Plated<br>Each | Chrom.<br>Plated<br>Each | Nickel<br>Silver<br>Each |
|-----------------------------------|----------------------------------|----------------------------|--------------------------|--------------------------|--------------------------|
|                                   |                                  | \$ .40                     | \$ .60                   | \$1.00                   | \$ .50                   |

### Flag Pole Cleats

CAST BRONZE AND NICKEL SILVER



Fig. 584

For attaching to side of bow or stern flag pole. A neat little fitting that has long been desired.

| Length<br>Overall<br>Inches<br>1¾ | Polished<br>Bronze<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each | Nickel<br>Silver<br>Each | Size<br>Base<br>Inches<br>¾x¾ |
|-----------------------------------|----------------------------|--------------------------|----------------------------|--------------------------|-------------------------------|
|                                   | \$ .35                     | \$ .45                   | \$ .95                     | \$ .45                   |                               |

## Beveled Bow Chocks

GALVANIZED AND CAST BRONZE



Fig. 546

| Length Overall Inches | Width Inches | For Diam. Rope Inches |
|-----------------------|--------------|-----------------------|
| 3                     | 3/8          | 3/8                   |
| 4                     | 3/4          | 1/2                   |
| 5                     | 7/8          | 5/8-3/4               |
| 6                     | 1 1/8        | 3/4                   |
| 8                     | 1 3/8        | 1                     |
| 10                    | 1 3/4        | 1 1/4                 |
| 12                    | 2 1/2        | 1 3/4                 |
| 15                    | 3            | 2                     |
| 18                    | 3 1/4        | 2 1/4                 |

| Length Inches | Galv. Iron Per Pair | Polished Bronze Per Pair | Nickel Plated Per Pair | Chrom. Plated Per Pair |
|---------------|---------------------|--------------------------|------------------------|------------------------|
| 3             | \$ .35              | \$1.30                   | \$1.70                 | \$2.50                 |
| 4             | .40                 | 1.50                     | 1.90                   | 2.75                   |
| 5             | .50                 | 2.00                     | 2.40                   | 3.50                   |
| 6             | 1.00                | 2.50                     | 2.90                   | 4.30                   |
| 8             | 1.60                | 4.00                     | 4.50                   | 6.20                   |
| 10            | 2.40                | 6.50                     | 7.25                   | 9.00                   |
| 12            | 4.75                |                          |                        |                        |
| 15            | 9.50                |                          |                        |                        |
| 18            | 14.00               |                          |                        |                        |

## Skene Bow Chocks

CAST BRONZE



Fig. 160

| Size No. | Length Inches | Width Inches | Opening Inches | Weight Per Pair Pounds |
|----------|---------------|--------------|----------------|------------------------|
| 1        | 4 1/2         | 3/8          | 3/4            | 3/4                    |
| 2        | 5 1/2         | 1 1/8        | 1              | 1 1/2                  |
| 3        | 7 3/4         | 1 1/2        | 1 1/4          | 3 3/4                  |
| 4        | 8 1/2         | 1 3/8        | 1 1/2          | 5                      |
| 5        | 10 1/2        | 2            | 2              | 8                      |

| Size No. | Polished Bronze Per Pair | Nickel Plated Per Pair | Chromium Plated Per Pair |
|----------|--------------------------|------------------------|--------------------------|
| 1        | \$2.00                   | \$2.40                 | \$3.50                   |
| 2        | 3.00                     | 3.50                   | 5.00                     |
| 3        | 5.00                     | 5.50                   | 7.25                     |
| 4        | 7.00                     | 7.75                   | 9.50                     |
| 5        | 10.50                    | 11.50                  | 13.50                    |

## Straight Stern Chocks

GALVANIZED AND CAST BRONZE



Fig. 119

| Length Inches | Width Inches | For Diam. Rope Inches |
|---------------|--------------|-----------------------|
| 4             | 1 1/8        | 3/8                   |
| 5             | 1 3/8        | 3/4                   |
| 6             | 1 1/2        | 7/8                   |
| 8             | 1 5/8        | 1 1/4                 |
| 10            | 2 1/4        | 1 3/8                 |
| 12            | 2 3/8        | 1 3/4                 |
| 15            | 2 5/8        | 1 3/4                 |
| 18            | 3 3/4        | 2                     |

| Length Inches | Galv. Iron Each | Polished Bronze Each | Nickel Plated Each | Chrom. Plated Each |
|---------------|-----------------|----------------------|--------------------|--------------------|
| 4             | \$ .18          | \$ .75               | \$1.00             | \$1.70             |
| 5             | .30             | 1.00                 | 1.25               | 1.95               |
| 6             | .43             | 1.25                 | 1.50               | 2.25               |
| 8             | 1.10            | 2.00                 | 2.50               | 3.25               |
| 10            | 1.30            | 3.50                 | 4.00               | 5.00               |
| 12            | 2.25            |                      |                    |                    |
| 15            | 4.25            |                      |                    |                    |
| 18            | 7.10            |                      |                    |                    |

## Skene Stern Chocks

CAST BRONZE



Fig. 161

| Size No. | Length Inches | Width Inches | Opening Inches | Weight Each Pounds |
|----------|---------------|--------------|----------------|--------------------|
| 11       | 4             | 3/8          | 3/8            | 1/2                |
| 12       | 5 1/2         | 1 3/8        | 1              | 1                  |
| 13       | 7             | 1 3/4        | 1 1/2          | 2                  |
| 14       | 9             | 2 1/4        | 2              | 4                  |

| Size No. | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |
|----------|----------------------|--------------------|----------------------|
| 11       | \$ .90               | \$1.15             | \$1.90               |
| 12       | 1.50                 | 1.75               | 2.75                 |
| 13       | 3.00                 | 3.50               | 4.25                 |
| 14       | 6.50                 | 7.00               | 8.00                 |

## Bulwark Bow Chocks

CAST BRONZE—POLISHED

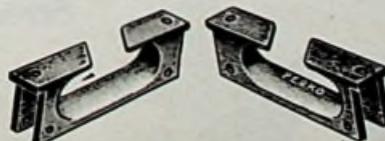


Fig. 768

This pair of chocks is beveled to fit bow angles. The openings are sufficiently large for mooring ropes. Designed to be bolted both through the bulwark and the deck.

| No. | Price Each | Length Inches | Width Overall Inches | Height Inches | Size of Rope Inches | No. | Price Per Pair | Length Inches | Width Overall Inches | Height Inches | Size of Rope Inches |
|-----|------------|---------------|----------------------|---------------|---------------------|-----|----------------|---------------|----------------------|---------------|---------------------|
| 1   | \$4.50     | 9 1/4         | 1 3/8                | 2 3/8         | 1 1/2               | 1   | \$ 7.50        | 10            | 1                    | 1 1/8         | 1                   |
| 2   | 6.50       | 11 1/2        | 1 3/4                | 3             | 1 3/4               | 2   | 9.00           | 11 1/4        | 1 1/4                | 2 1/4         | 1 1/4               |
|     |            |               |                      |               |                     | 3   | 12.00          | 11 1/4        | 1 1/2                | 2 1/2         | 1 1/2               |

## Bulwark Stern Chocks

CAST BRONZE—POLISHED



Fig. 769

## Streamline Fittings

Are made of the highest grade of bronze or nickel silver castings. These fittings all follow the same design and will match all other "Perko" streamline items on the deck, such as running lights, flagpole sockets, ventilators, etc. They will add to the appearance of any boat and are good, strong, practical fittings in use.

### Streamline Cleat

CAST BRONZE AND NICKEL SILVER



Fig. 114

| Length Overall Inches | Size Base Inches | For Rope Diameter Inches |
|-----------------------|------------------|--------------------------|
| 2½                    | 1 x 2            | Up to ½                  |
| 3½                    | 1½ x 2½          | Up to ¾                  |
| 4½                    | 1½ x 3½          | Up to 1                  |
| 5½                    | 1¾ x 4           |                          |

PRICE EACH

| Length Inches | Polished Bronze | Nickel Plated | Nickel Silver | Chromium Plated |
|---------------|-----------------|---------------|---------------|-----------------|
| 2½            | \$ .70          | \$ .95        | \$ .95        | \$1.40          |
| 3½            | .90             | 1.15          | 1.15          | 1.80            |
| 4½            | 1.25            | 1.50          | 1.50          | 2.20            |
| 5½            | 1.65            | 1.90          | 1.90          | 3.00            |

### Streamline Stern Chock

CAST BRONZE AND NICKEL SILVER  
OPEN PATTERN



Fig. 116

| Length Overall Inches | Width Base Inches | For Rope Diameter Inches |
|-----------------------|-------------------|--------------------------|
| 3                     | ¾                 | Up to ½                  |
| 4                     | 1                 | Up to ¾                  |
| 5                     | 1½                | Up to 1                  |
| 6                     | 1¾                |                          |

PRICE EACH

| Length Inches | Polished Bronze | Nickel Plated | Nickel Silver | Chromium Plated |
|---------------|-----------------|---------------|---------------|-----------------|
| 3             | \$ .65          | \$ .85        | \$ .85        | \$1.30          |
| 4             | .75             | .95           | .95           | 1.50            |
| 5             | 1.10            | 1.30          | 1.30          | 2.00            |
| 6             | 1.40            | 1.80          | 1.80          | 2.50            |

### Streamline Bow Chocks

CAST BRONZE AND NICKEL SILVER  
OPEN PATTERN

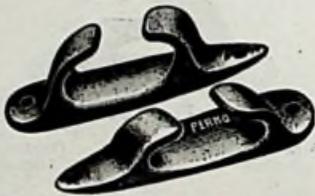


Fig. 115

| Length Overall Inches | Width Base Inches | For Rope Diameter Inches |
|-----------------------|-------------------|--------------------------|
| 3½                    | ¾                 | Up to ½                  |
| 4½                    | 1                 | Up to ¾                  |
| 5½                    | 1½                | Up to 1                  |
| 6½                    | 1¾                |                          |

PRICE PER PAIR

| Length Inches | Polished Bronze | Nickel Plated | Nickel Silver | Chromium Plated |
|---------------|-----------------|---------------|---------------|-----------------|
| 3½            | \$1.30          | \$1.60        | \$1.60        | \$2.40          |
| 4½            | 1.50            | 1.80          | 1.80          | 3.00            |
| 5½            | 2.20            | 2.50          | 2.50          | 4.00            |
| 6½            | 2.80            | 3.10          | 3.10          | 5.00            |

### Streamline Stern Chocks

CLOSED PATTERN



Fig. 118

| Length Overall Inches | Width Base Inches | For Rope Diameter Inches |
|-----------------------|-------------------|--------------------------|
| 3                     | ¾                 | Up to ½                  |
| 4                     | 1                 | Up to ¾                  |
| 5                     | 1½                | Up to 1                  |
| 6                     | 1¾                | Up to 1½                 |

PRICE EACH

| Length Inches | Polished Bronze | Nickel Plated | Nickel Silver | Chromium Plated |
|---------------|-----------------|---------------|---------------|-----------------|
| 3             | \$ .75          | \$1.00        | \$1.00        | \$1.70          |
| 4             | 1.00            | 1.25          | 1.25          | 2.00            |
| 5             | 1.40            | 1.65          | 1.65          | 2.50            |
| 6             | 1.75            | 2.15          | 2.15          | 3.25            |

### Streamline Bow Chocks

CLOSED PATTERN

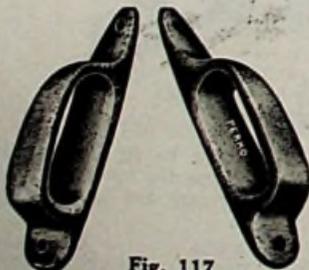


Fig. 117

| Length Overall Inches | Width Base Inches | For Rope Diameter Inches |
|-----------------------|-------------------|--------------------------|
| 3½                    | ¾                 | Up to ½                  |
| 4½                    | 1                 | Up to ¾                  |
| 5½                    | 1½                | Up to 1                  |
| 6½                    | 1¾                | Up to 1½                 |

PRICE PER PAIR

| Length Inches | Polished Bronze | Nickel Plated | Nickel Silver | Chromium Plated |
|---------------|-----------------|---------------|---------------|-----------------|
| 3½            | \$1.50          | \$1.90        | \$1.90        | \$3.00          |
| 4½            | 2.00            | 2.40          | 2.40          | 4.00            |
| 5½            | 2.80            | 3.30          | 3.30          | 5.00            |
| 6½            | 3.50            | 4.00          | 4.00          | 6.50            |



### Ship Cleats

CAST IRON—HEAVY



Fig. 511

| Length Inches | Galv. Each | Self Colored Each | Size of Base Inches | Holes for Diam. Bolts Inches | Weight Each Pounds |
|---------------|------------|-------------------|---------------------|------------------------------|--------------------|
| 8             | \$ .60     | \$ .50            | 4 1/4 x 2 1/4       | 1/8                          | 3                  |
| 10            | 1.10       | .90               | 4 3/4 x 2 1/2       | 1/2                          | 5 3/4              |
| 12            | 1.80       | 1.45              | 6 3/8 x 3           | 3/8                          | 10                 |
| 15            | 2.50       | 2.00              | 7 1/4 x 3 1/2       | 3/4                          | 14                 |
| 18            | 3.40       | 2.30              | 7 1/2 x 4           | 3/4                          | 20 1/4             |
| 24            | 5.50       | 3.70              | 8 1/2 x 4 3/8       | 3/8                          | 35                 |
| 30            | 8.75       | 5.75              | 10 3/4 x 5 1/2      | 1                            | 73                 |
| 36            | 15.50      | 10.50             | 13 x 7 1/4          | 1 1/4                        | 117                |

### Streamline Mooring Bitt

CAST BRONZE

A very fine looking yet practical mooring bitt for the better class of outboard motor boats and runabouts. Streamlined base gives racy appearance and matches other streamline fittings on the boat.



Fig. 354

| Length Base Inches   | Width Base Inches  | Height Overall Inches | Weight Ounces |
|----------------------|--------------------|-----------------------|---------------|
| 3 3/4                | 2 1/4              | 2 3/8                 | 8             |
| Polished Bronze Each | Nickel Plated Each | Chromium Plated Each  |               |
| \$1.75               | \$2.00             | \$3.25                |               |

### Closed Straight Chocks

GALVANIZED CAST IRON AND CAST BRONZE



Fig. 163

| Length Inches | Galv. Each | Polished Bronze Each | Nickel Plated Each | Chrom. Plated Each | Weight Each Pounds |
|---------------|------------|----------------------|--------------------|--------------------|--------------------|
| 4             | \$ .22     | \$1.00               | \$1.25             | \$2.00             | 1/8                |
| 6             | .55        | 1.60                 | 1.85               | 2.85               | 1 1/2              |
| 8             | 1.35       | 2.25                 | 2.75               | 3.75               | 3 3/8              |
| 10            | 1.60       | 3.75                 | 4.25               | 5.50               | 6 3/4              |
| 12            | 2.30       |                      |                    |                    | 9                  |
| 15            | 4.10       |                      |                    |                    | 16                 |
| 18            | 6.50       |                      |                    |                    | 28                 |

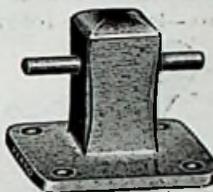


Fig. 608

| No. | Size Base Inches     | Height Inches      | Net Weight Lbs.      |
|-----|----------------------|--------------------|----------------------|
| 1   | 3 x 3                | 2 1/2              | 7/8                  |
| 2   | 4 1/2 x 4 1/2        | 3 1/2              | 1 1/8                |
| 3   | 6 x 6                | 5                  | 5 1/2                |
| 4   | 7 x 7                | 6 1/2              | 12                   |
| No. | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |
| 1   | \$2.00               | \$2.50             | \$4.50               |
| 2   | 3.50                 | 4.00               | 6.00                 |
| 3   | 6.75                 | 7.25               | 9.75                 |
| 4   | 12.75                | 14.75              | 15.75                |

### Improved Riding Bitts

GALVANIZED CAST IRON AND POLISHED BRONZE



Fig. 926

| Pounds | Pounds | Pounds | Pounds | Pounds | Size No. | Galv. Each | Polished Bronze Each | Height Inches | Overall Length Inches | Size Base Inches | Bored for Bolt Dia. Inches |
|--------|--------|--------|--------|--------|----------|------------|----------------------|---------------|-----------------------|------------------|----------------------------|
| 2      | 6      | 10     | 18     | 30     | 00       | \$1.20     | \$3.10               | 3 1/2         | 3 1/2                 | 2 1/2 x 2 1/2    | 1/4                        |
| 3      | 7      | 12     | 20     | 35     | 0        | 1.80       | 4.50                 | 4 1/2         | 4 1/2                 | 2 3/4 x 2 3/4    | 3/8                        |
| 4      | 8      | 14     | 25     | 40     | 01       | 2.40       | 6.00                 | 5 3/4         | 5 3/4                 | 3 3/4 x 3 3/4    | 3/8                        |
| 5      | 9      | 16     | 28     | 50     | 1        | 3.70       | 9.00                 | 7             | 6 1/2                 | 4 1/2 x 5        | 1/2                        |
|        |        |        |        |        | 1 1/2    | 6.75       | 12.50                | 8 1/2         | 7 1/4                 | 5 x 6            | 5/8                        |
|        |        |        |        |        | 2        | 9.25       | 17.50                | 10            | 10                    | 5 1/2 x 8 1/2    | 3/8                        |

PRICE PER POUND ..... \$ .25

### Sounding Leads



Fig. 940

## Bow Plates

CAST BRONZE AND ALUMINUM



Fig. 494

Size Plate  
Inches  
4 1/8 x 4 3/8

Polished  
Bronze  
Each  
\$1.00

Fig. 494  
Diam. Eye  
Inches  
1/2

Nickel  
Plated  
Each  
\$1.30

Fig. 181  
Diam. Eye  
Inches  
3/4

Chromium  
Plated  
Each  
\$2.00

Fig. 181

Weight  
Bronze  
Oz.  
10

Weight  
Aluminum  
Oz.  
2 1/2

Polished  
Aluminum  
Each  
\$1.00

## Combination Bow Plate

CAST BRONZE

A bow plate and bow chock combined—small size for outboard motorboats—large size for runabouts.



Fig. 543

| No. | Length<br>Inches | Width<br>Inches | Diam. Rope<br>Inches | Weight<br>Oz. |
|-----|------------------|-----------------|----------------------|---------------|
| 1   | 3 3/4            | 4 1/4           | Up to 3/4            | 11            |
| 2   | 3 3/4            | 4 3/4           | Up to 1              | 15            |

| No. | Polished<br>Bronze<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each |
|-----|----------------------------|--------------------------|----------------------------|
| 1   | \$2.50                     | \$2.75                   | \$3.50                     |
| 2   | 2.75                       | 3.00                     | 3.75                       |

## Rings with Straps

GALVANIZED MALLEABLE IRON

AND CAST BRONZE

HEAVY PATTERN



Fig. 1020

| Size<br>No. | Gal.<br>Each | Plain<br>Bronze<br>Each | Polished<br>Bronze<br>Each | Size Ring<br>Inches | Size Plate<br>Inches | Weight<br>Each<br>Ounces |
|-------------|--------------|-------------------------|----------------------------|---------------------|----------------------|--------------------------|
| 1           | \$ .30       | \$ .50                  | \$ .80                     | 1/4 x 1 1/2         | 4 1/4 x 7/8          | 4                        |
| 2           | .35          | .60                     | .85                        | 1/2 x 1 3/4         | 4 1/4 x 7/8          | 6                        |

## Ring on Plate

GALVANIZED DROP FORGED STEEL



Fig. 607

| No. | Galvanized<br>Each |
|-----|--------------------|
| 1   | \$ .40             |
| 2   | .50                |

Size Ring  
Inches  
1 1/2 x 1 1/2  
3/8 x 2

Size Plate  
Inches  
2 x 2 x 1/8  
2 x 2 x 1/4

Weight  
Per 100  
in Lbs.  
33  
50

## Ring on Plate STREAMLINE PATTERN CAST BRONZE



Fig. 182

| No. | Length<br>Base<br>Inches | Width<br>Base<br>Inches | Diam.<br>of Ring<br>Inches | Weight<br>Oz. |
|-----|--------------------------|-------------------------|----------------------------|---------------|
| 1   | 2 3/4                    | 1 1/2                   | 1 1/4                      | 4             |
| 2   | 3 3/4                    | 1 7/8                   | 1 1/2                      | 6             |

| No. | Polished<br>Bronze<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each |
|-----|----------------------------|--------------------------|----------------------------|
| 1   | \$ .80                     | \$1.05                   | \$2.00                     |
| 2   | .95                        | 1.20                     | 2.25                       |

## Ring and Deck Strap CAST BRONZE

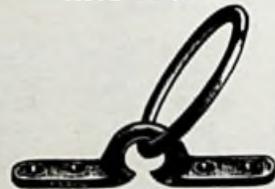


Fig. 183

| Diam.<br>Ring<br>Inches | Length<br>Strap<br>Inches | Width<br>Strap<br>Inches | Weight<br>Oz. |
|-------------------------|---------------------------|--------------------------|---------------|
| 1 1/2                   | 3                         | 5/8                      | 4             |

| Plain<br>Bronze<br>Each | Polished<br>Bronze<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each |
|-------------------------|----------------------------|--------------------------|----------------------------|
| \$ .50                  | \$ .70                     | \$ .90                   | \$1.50                     |

## Ring With Strap CAST BRONZE

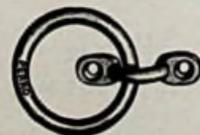


Fig. 1004

| Polished<br>Bronze<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each | Inside<br>Diam.<br>Ring<br>Inches | Length<br>Strap<br>Inches |
|----------------------------|--------------------------|----------------------------|-----------------------------------|---------------------------|
| \$ .50                     | \$ .75                   | \$1.00                     | 1 1/2                             | 2                         |



## Lifting Ring

WITH ROUND BASE

CAST BRONZE AND NICKEL SILVER

Made in two sizes, No. 1 for outboard boats, No. 2 for runabouts.



Fig. 187

| No. | Height Overall Inches | Diam. Eye Inches | Diam. Base Inches | Threaded for Rod Inches | Weight Lbs. |
|-----|-----------------------|------------------|-------------------|-------------------------|-------------|
| 1   | 3                     | 1 1/8            | 2                 | 5/8                     | 1/2         |
| 2   | 4 1/8                 | 2                | 2 1/2             | 5/8                     | 1           |



Fig. 188

| No. | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each | Nickel Silver Each |
|-----|----------------------|--------------------|----------------------|--------------------|
| 1   | \$1.85               | \$2.25             | \$3.25               | \$2.25             |
| 2   | 2.75                 | 3.25               | 4.25                 | 3.25               |

## Lifting Ring and Cleat

WITH RECTANGULAR BASE

CAST BRONZE AND NICKEL SILVER

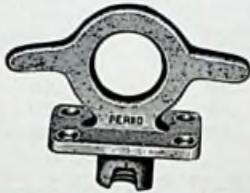


Fig. 542

| No. | Length Overall Inches | Height Overall Inches | Diam. Eye Inches | Size Base Inches | Threaded for Rod Inches | Weight Lbs. |
|-----|-----------------------|-----------------------|------------------|------------------|-------------------------|-------------|
| 5   | 4                     | 2 1/2                 | 1 1/8            | 1 1/2 x 2 1/2    | 5/8                     | 13 oz.      |
| 6   | 6 1/2                 | 3 1/2                 | 2                | 2 1/4 x 4 1/4    | 1                       | 2 1/2 lbs.  |

| No. | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each | Nickel Silver Each |
|-----|----------------------|--------------------|----------------------|--------------------|
| 5   | \$3.00               | \$3.50             | \$4.50               | \$3.50             |
| 6   | 4.00                 | 4.50               | 5.50                 | 4.50               |

## Base for Lifting Rings

CAST BRONZE—PLAIN

Designed for fastening to keel of boat by bolts, holes are drilled for 3/8 inch diameter bolt.



Fig. 446

| No. | Each   | Size Base Inches | Height Inches | Threaded for Rod Inches | Weight Oz. |
|-----|--------|------------------|---------------|-------------------------|------------|
| 1   | \$ .60 | 3 x 1 3/8        | 1 1/2         | 3/8                     | 7          |
| 2   | 1.00   | 4 1/4 x 2 1/8    | 1 1/4         | 1                       | 15         |

## Bow Eyes

CAST BRONZE

A very handy fitting for the bow of small boats, used for tying up or towing.



Fig. 303

| No. | Metal in Eye Inches | Length of Straps Inches | Extreme Length Inches | Inside Diam. Eye Inches |
|-----|---------------------|-------------------------|-----------------------|-------------------------|
| 1   | 3/8                 | 1 3/4                   | 3                     | 3/4                     |
| 2   | 1/2                 | 2 3/8                   | 3 3/8                 | 1 1/8                   |

| No. | Plain Bronze Each | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |
|-----|-------------------|----------------------|--------------------|----------------------|
| 1   | \$ .45            | \$ .65               | \$ .85             | \$1.65               |
| 2   | .65               | .85                  | 1.05               | 1.85                 |

## Hatch Handle

CAST BRONZE AND ALUMINUM



Fig. 185

| Length Overall Inches | Height Overall Inches | Size Opening Inches | Weight Oz. |
|-----------------------|-----------------------|---------------------|------------|
| 5                     | 1 1/2                 | 3 1/4 x 1           | 6          |

| Polished Bronze Each | Nickel Plated Each | Chromium Plated Each | Polished Aluminum Each |
|----------------------|--------------------|----------------------|------------------------|
| \$ .70               | \$ .95             | \$1.25               | \$ .75                 |

## Lifting Handle

CAST BRONZE AND ALUMINUM



Fig. 186

| Length Overall Inches | Height Inches | Width Base Inches | Size Opening Inches | Weight Oz. |
|-----------------------|---------------|-------------------|---------------------|------------|
| 6 1/2                 | 2             | 1 1/4             | 3 3/4 x 1 1/2       | 12         |

| Polished Bronze Each | Nickel Plated Each | Chromium Plated Each | Polished Aluminum Each |
|----------------------|--------------------|----------------------|------------------------|
| \$1.00               | \$1.35             | \$1.85               | \$1.00                 |

## Bow Ring

CAST BRONZE

A dandy tie ring on rowboats, canoes, and outboard motor boats. Bolts through bow stem, cannot pull out, will take rope up to 3/8 inch.



Fig. 210

| I. D. Ring Inches | Size Base Inches | Size Bolt Inches | Plain Each | Polished Each | Nickel Plated Each | Chromium Plated Each |
|-------------------|------------------|------------------|------------|---------------|--------------------|----------------------|
| 1                 | 2 1/4 x 1/2      | 4 x 1/8          | \$ .70     | \$ .85        | \$1.10             | \$1.60               |

## Stanchion Posts

GALVANIZED CAST IRON AND BRONZE

Made for end or center of rail. Please specify by Fig. No. below when ordering.



Fig. 614—For End  
Fig. 615—For Center

| Extreme Height<br>Size of Post<br>No. Inches | Bored For | Galv. Each | Pol. Bronze Each | Nickel Plated Each | Chrom. Plated Each |
|--|-----------|------------|------------------|--------------------|--------------------|
| 1 2  | 5/8" Rod  | \$.25      | \$.70            | \$1.10             | \$1.70             |
| 1 1/2 2                                      | 1/4" Pipe | .25        | .70              | 1.10               | 1.70               |
| 2 2 1/2                                      | 5/8" Rod  | .35        | .90              | 1.30               | 1.90               |
| 2 1/2 2 1/2                                  | 1/4" Pipe | .35        | .90              | 1.30               | 1.90               |
| 3 3  | 5/8" Rod  | .50        | 1.25             | 1.75               | 2.50               |
| 3 1/2 3                                      | 3/8" Pipe | .50        | 1.25             | 1.75               | 2.50               |
| 5 4  | 3/4" Rod  | .80        | 2.60             | 3.10               | 3.85               |
| 5 1/2 4                                      | 1/2" Pipe | .80        | 2.60             | 3.10               | 3.85               |

## Stanchion Posts

GALVANIZED CAST IRON AND BRONZE

Made for corner of rail or bow of boat. Specify by Fig. No. below when ordering.



Fig. 616—For Corner  
Fig. 617—For Bow

| Extreme Height<br>Size of Post<br>No. Inches | Bored For | Galv. Each | Pol. Bronze Each | Nickel Plated Each | Chrom. Plated Each |
|--|-----------|------------|------------------|--------------------|--------------------|
| 1 2  | 5/8" Rod  | \$.40      | \$1.00           | \$1.40             | \$2.00             |
| 1 1/2 2                                      | 1/4" Pipe | .40        | 1.00             | 1.40               | 2.00               |
| 2 2 1/2                                      | 5/8" Rod  | .50        | 1.10             | 1.50               | 2.10               |
| 2 1/2 2 1/2                                  | 1/4" Pipe | .50        | 1.10             | 1.50               | 2.10               |
| 3 3  | 5/8" Rod  | .65        | 1.40             | 1.90               | 2.65               |
| 3 1/2 3                                      | 3/8" Pipe | .65        | 1.40             | 1.90               | 2.65               |
| 5 4  | 3/4" Rod  | 1.00       | 2.80             | 3.30               | 4.05               |
| 5 1/2 4                                      | 1/2" Pipe | 1.00       | 2.80             | 3.30               | 4.05               |

## Hand Rail Sockets

FOR WOOD RAIL—CAST BRONZE



Fig. 215

Made for end or center of rail of high grade bronze. Base can very easily be shaped to fit the crown of the deck.

| For Rail<br>Diam.<br>Inches | Extreme<br>Height<br>Inches | Size of<br>Base<br>Inches | Weight<br>Each<br>Ounces |
|-----------------------------|-----------------------------|---------------------------|--------------------------|
| 1                           | 1 3/4                       | 5/8 x 3 1/2               | 5                        |
| 1 1/4                       | 2                           | 3/4 x 3 3/4               | 9                        |

| Pol. Bronze |        | Nickel Plated |        | Chrom. Plated |        |
|-------------|--------|---------------|--------|---------------|--------|
| Center      | End    | Center        | End    | Center        | End    |
| Each        | Each   | Each          | Each   | Each          | Each   |
| 1 \$ .85    | \$1.00 | \$1.35        | \$1.50 | \$2.10        | \$2.25 |
| 1 1/4 1.00  | 1.25   | 1.50          | 1.75   | 2.25          | 2.50   |

Please specify center or end and size when ordering.

## Hand Rail for Decks

BRASS TUBING



Fig. 938

| Outside<br>Diam.<br>Inches | Polished<br>Per Foot | Nickel<br>Plated<br>Per Foot | Chromium<br>Plated<br>Per Foot |
|----------------------------|----------------------|------------------------------|--------------------------------|
| 1/2                        | \$.35                | \$.55                        | \$.75                          |
| 5/8                        | .40                  | .60                          | .80                            |
| 3/4                        | .45                  | .70                          | .95                            |
| 7/8                        | .50                  | .80                          | 1.10                           |

## Rail Stanchions

FOR WOOD HAND RAILS  
GALVANIZED FORGED STEEL

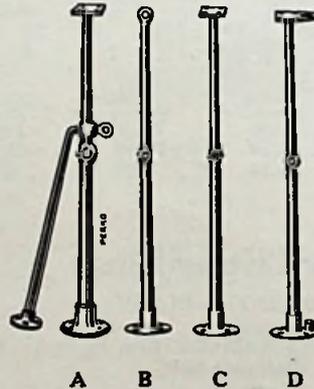


Fig. 939

Type A has strengthening strut for use as end stanchion, or for gangway breaks in rail, etc.  
Type D has hole and bottom support for pipe awning stanchion.

| Style | Each   | Diameter<br>Inches | Height<br>Inches |
|-------|--------|--------------------|------------------|
| A     | \$7.50 | 7/8                | 28 1/2           |
| B     | 4.75   | 7/8                | 28 1/2           |
| C     | 4.75   | 7/8                | 28 1/2           |
| D     | 5.00   | 7/8                | 28 1/2           |

SPECIAL SIZES MADE TO ORDER



### Rail Hinge

CAST BRONZE

Made to fit standard hand rail on high class yachts and cruisers.



Fig. 122

| No. | Size Rail Inches | Length Inches | Weight Lbs. |
|-----|------------------|---------------|-------------|
| 1   | 1½ x 2½          | 5             | 1½          |
| 2   | 1¾ x 3           | 3¾            | 1¾          |

| No. | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |
|-----|----------------------|--------------------|----------------------|
| 1   | \$3.50               | \$4.00             | \$4.75               |
| 2   | 3.50                 | 4.00               | 4.75                 |

### Grab Rails

Made of heavy brass tubing with cast bronze posts.



Fig. 379

| Length Between Posts Inches | Diameter of Bar      |                      |                      |                      |
|-----------------------------|----------------------|----------------------|----------------------|----------------------|
|                             | 1 Inch               |                      | 1¼ Inch              |                      |
|                             | Polished Bronze Each | Chromium Plated Each | Polished Bronze Each | Chromium Plated Each |
| 6                           | \$2.50               | \$3.50               | \$2.75               | \$3.75               |
| 8                           | 2.65                 | 3.75                 | 3.00                 | 4.15                 |
| 12                          | 2.85                 | 4.35                 | 3.25                 | 4.75                 |
| 18                          | 3.00                 | 4.75                 | 3.50                 | 5.25                 |
| 24                          | 3.25                 | 5.20                 | 3.75                 | 5.70                 |
| 30                          | 3.50                 | 5.80                 | 4.00                 | 6.25                 |
| 36                          | 3.75                 | 5.75                 | 4.25                 | 6.35                 |
| 42                          | 4.00                 | 6.50                 | 4.50                 | 7.00                 |

Can be furnished with middle post and in special lengths or nickel plated if desired. Price on application.

### Flush Rail Lock

CAST BRONZE

Lies flush with top of rail when closed. Strong spring catch on bottom to hold rail end in position. A very practical fitting.



Fig. 123

| No. | Size Rail Inches | Length Inches | Weight Lbs. |
|-----|------------------|---------------|-------------|
| 1   | 1½ x 2½          | 5             | 1¾          |
| 2   | 1¾ x 3           | 3¾            | 1¾          |

| No. | Polished Bronze Per Set | Nickel Plated Per Set | Chromium Plated Per Set |
|-----|-------------------------|-----------------------|-------------------------|
| 1   | \$3.50                  | \$4.00                | \$4.75                  |
| 2   | 3.50                    | 4.00                  | 4.75                    |

### Grab Rail Posts

CAST BRONZE—HOLLOW



Fig. 380

| Diam. Base Inches | Height Overall Inches | Diam. Hole Inches | Weight Per Pair Pounds |
|-------------------|-----------------------|-------------------|------------------------|
| 2½                | 3¾                    | 1 or 1½           | 1½                     |

|  | Polished Bronze Per Pair | Nickel Plated Per Pair | Chromium Plated Per Pair |
|--|--------------------------|------------------------|--------------------------|
|  | \$2.00                   | \$2.75                 | \$4.00                   |

### Streamline Flag Pole Socket

CAST BRONZE AND NICKEL SILVER

Designed for the better class of runabouts. These sockets will match all other "Perko" streamline deck fittings.



Fig. 222

| Diam. Socket Inches | Size Flange Inches | Depth Socket Inches | Weight Lbs. |
|---------------------|--------------------|---------------------|-------------|
| 1¼                  | 2½ x 5             | 2½                  | 1¾          |

|  | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each | Nickel Silver Each |
|--|----------------------|--------------------|----------------------|--------------------|
|  | \$2.00               | \$2.50             | \$3.00               | \$2.50             |

### Transom Flag Pole Socket

CAST BRONZE AND NICKEL SILVER

Designed for outboard motor boats or runabouts that have no decking in stern for regular type of socket.



Fig. 225

| Diam. Socket Inches | Depth Socket Inches | Length Base Inches | Width Base Inches | Weight Oz. |
|---------------------|---------------------|--------------------|-------------------|------------|
| ¾                   | 1¾                  | 3¾                 | 1½                | 8          |

|  | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each | Nickel Silver Each |
|--|----------------------|--------------------|----------------------|--------------------|
|  | \$1.00               | \$1.25             | \$2.25               | \$1.35             |

### Upright Flag Pole Socket

ROUND BASE—WITH FERRULE  
CAST BRONZE AND NICKEL SILVER



Fig. 220



Fig. 221

| Inside Diam. Inches | Diam. Base Inches | Inside Diam. Ferrule Inches | Height Inches | Weight Ounces |
|---------------------|-------------------|-----------------------------|---------------|---------------|
| 1/2                 | 1 3/8             |                             | 1 3/8         | 4             |
| 3/8                 | 1 3/8             |                             | 1 3/8         | 5             |
| 3/8                 | 2 1/8             | H                           | 1 3/8         | 7             |
| 3/8                 | 2 1/8             | H                           | 1 3/8         | 8             |
| 1                   | 2 1/2             | H                           | 2             | 8 1/2         |
| 1 1/4               | 2 3/4             | H                           | 2 1/4         | 11            |
| 1 1/2               | 3                 | H                           | 3             | 16            |

| Inside Diam. Inches | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each | Nickel Silver Each |
|---------------------|----------------------|--------------------|----------------------|--------------------|
| 1/2                 | .75                  | \$1.00             | \$1.95               | \$1.00             |
| 3/8                 | .85                  | 1.10               | 2.05                 | 1.10               |
| 3/8                 | 1.00                 | 1.25               | 2.25                 | 1.25               |
| 3/8                 | 1.25                 | 1.55               | 2.55                 | 1.55               |
| 1                   | 1.35                 | 1.65               | 2.60                 | 1.65               |
| 1 1/4               | 1.75                 | 2.05               | 3.25                 | 2.05               |
| 1 1/2               | 2.25                 | 2.60               | 3.75                 | 2.60               |

1/2 inch and 3/8 inch furnished without ferrule.

### Upright Flag Pole Socket

SQUARE BASE—NO FERRULE  
GALVANIZED CAST IRON



Fig. 570



Fig. 571

| Inside Diam. Inches | Galv. Each | Height Inches | Size Base Inches | Weight Each |
|---------------------|------------|---------------|------------------|-------------|
| 3/4                 | \$.30      | 1 3/4         | 2 x 2            | 5 1/2 oz.   |
| 1                   | .40        | 2 1/4         | 2 1/4 x 2 1/4    | 11 1/2 oz.  |
| 1 1/4               | .65        | 2 3/4         | 2 3/4 x 2 3/4    | 13 oz.      |
| 1 1/2               | .90        | 3 1/2         | 3 x 3            | 1 1/2 lbs.  |

### Utility Flag Pole Socket

CAST BRONZE AND NICKEL SILVER

Oval flange takes up very little space on deck. Furnished with set screw for tightening up on flag pole.



Fig. 635

| Inside Diameter Inches | Size Flange Inches | Depth Socket Inches | Weight Ounces |
|------------------------|--------------------|---------------------|---------------|
| 1 1/4                  | 2 3/8 x 2 1/4      | 2 1/8               | 10            |

| Polished Bronze Each | Nickel Plated Each | Chromium Plated Each | Nickel Silver Each |
|----------------------|--------------------|----------------------|--------------------|
| \$1.30               | \$1.80             | \$2.30               | \$1.80             |

### Flush Flag Pole Socket

WITH FERRULE  
GALVANIZED CAST IRON, CAST BRONZE AND NICKEL SILVER

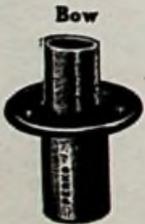


Fig. 218



Fig. 219

| Inside Diam. Inches | Diam. Flange Inches | Inside Diam. Ferrule Inches | Depth Socket Inches | Weight     |
|---------------------|---------------------|-----------------------------|---------------------|------------|
| 1/2                 | 1 1/2               |                             | 1 1/8               | 2 oz.      |
| 3/8                 | 1 3/4               |                             | 1 3/8               | 2 1/2 oz.  |
| 3/8                 | 2                   | H                           | 1 1/2               | 4 1/2 oz.  |
| 3/8                 | 2 1/8               | H                           | 1 5/8               | 4 3/4 oz.  |
| 1                   | 2 3/8               | H                           | 1 3/4               | 6 oz.      |
| 1 1/4               | 2 3/4               | H                           | 2                   | 10 oz.     |
| 1 1/2               | 3 1/8               | H                           | 2 3/8               | 1 lb.      |
| 1 3/4               | 3 3/8               | H                           | 3                   | 1 1/8 lbs. |
| 2                   | 3 3/8               | H                           | 3 3/4               | 1 3/8 lbs. |

| Inside Diam. Inches | Galv. Each | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each | Nickel Silver Each |
|---------------------|------------|----------------------|--------------------|----------------------|--------------------|
| 1/2                 |            | \$.65                | \$.90              | \$1.55               | \$.90              |
| 3/8                 | .25        | .70                  | .95                | 1.60                 | .95                |
| 3/8                 | .25        | .75                  | 1.00               | 1.75                 | 1.00               |
| 3/8                 | .25        | .85                  | 1.10               | 1.85                 | 1.10               |
| 1                   | .30        | .90                  | 1.15               | 1.90                 | 1.15               |
| 1 1/4               | .35        | 1.25                 | 1.50               | 2.50                 | 1.50               |
| 1 1/2               | .60        | 1.75                 | 2.10               | 3.25                 | 2.10               |
| 1 3/4               | .60        | 2.25                 | 2.60               | 3.75                 | 2.60               |
| 2                   | .60        | 3.00                 | 3.50               | 4.50                 | 3.50               |

1/2 inch and 3/8 inch furnished without ferrule.

### Runabout Flag Pole Socket

CAST BRONZE AND NICKEL SILVER

Unique design of flange makes this a good looking deck fitting. Complete with set screw for holding pole fast in place.



Fig. 541

| Inside Diameter Inches | Size Flange Inches | Depth Socket Inches | Weight Ounces |
|------------------------|--------------------|---------------------|---------------|
| 1 1/4                  | 3 1/2 x 3 1/2      | 2 1/2               | 12            |

| Polished Bronze Each | Nickel Plated Each | Chromium Plated Each | Nickel Silver Each |
|----------------------|--------------------|----------------------|--------------------|
| \$1.50               | \$2.00             | \$2.50               | \$2.00             |



### Windshield Brackets

CAST BRONZE AND NICKEL SILVER

Sturdy and attractive fittings for runabouts and out-board motor boats.

The end brackets have beveled bases that will fit the crown of most decks, all brackets are grooved for 1/4 inch glass, and are tilted at a 50 degree angle.

V TYPE

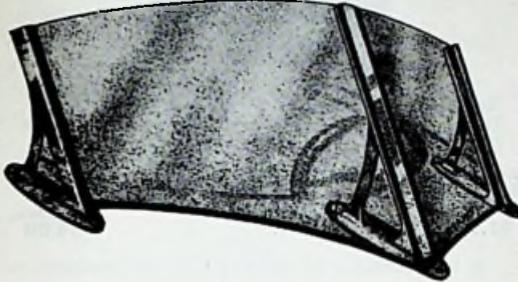


Fig. 665

| Height of Center Brackets Inches | Height of End Brackets Inches | Length of Center Base Inches | Polished Bronze Per Set | Nickel Plated Per Set | Nickel Silver Per Set | Chromium Plated Per Set |
|----------------------------------|-------------------------------|------------------------------|-------------------------|-----------------------|-----------------------|-------------------------|
| 9 1/2                            | 7 1/2                         | 7 3/8                        | \$9.00                  | \$11.50               | \$11.50               | \$13.00                 |

Height of brackets is figured perpendicular to bases. Prices do not include glass.

STRAIGHT TYPE

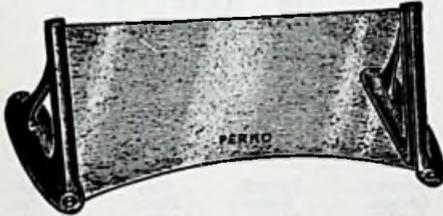


Fig. 666

| Polished Bronze Per Set | Nickel Plated Per Set | Nickel Silver Per Set | Chromium Plated Per Set | Length Bases Inches | Height Inches |
|-------------------------|-----------------------|-----------------------|-------------------------|---------------------|---------------|
| \$7.00                  | \$8.50                | \$8.50                | \$9.50                  | 5 3/4               | 7             |

### Rubber Insulation for Windshields



Fig. 667



Fig. 668

Fig. 667—For bottom of windshields—per foot \$.20  
Fig. 668—For windshield brackets—per foot.. .18

### Windshield Adjusters

CAST BRONZE



Fig. 82

| No. | Length Inches | Polished Bronze Per Pair | Nickel Plated Per Pair | Chromium Plated Per Pair |
|-----|---------------|--------------------------|------------------------|--------------------------|
| 1   | 6 1/2         | \$5.00                   | \$6.30                 | \$8.10                   |
| 2   | 9             | 6.00                     | 7.40                   | 9.00                     |

### Heavy Windshield Adjusters

CAST BRONZE

Designed for large windshields on cruisers. Well constructed and permits windshield to be set at any angle desired.

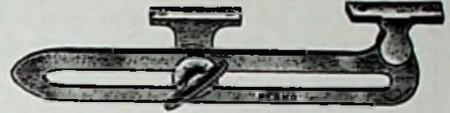


Fig. 1003

| No. | Length Inches | Polished Bronze Per Pair | Nickel Plated Per Pair | Chromium Plated Per Pair |
|-----|---------------|--------------------------|------------------------|--------------------------|
| 3   | 6 1/2         | \$5.40                   | \$6.30                 | \$ 8.10                  |
| 4   | 10            | 7.20                     | 8.50                   | 10.50                    |

### Aluminum Racing Fin

Cast silicon aluminum 10% alloy (salt water resisting). Heavy rubber gasket, 4 brass machine screws and wing nuts.



Fig. 493

| Size Blade Inches | Size Base Inches | Weight Lbs. |
|-------------------|------------------|-------------|
| 7 1/2 x 5 x 3 1/2 | 1 1/2 x 8 1/2    | 1 1/2       |

Without gasket, screws and nuts  
With gasket, screws and nuts

Each \$1.75  
2.00

### Aluminum Racing Fin

CAST SILICON ALUMINUM



Fig. 189

| Length Overall Inches | Depth Blade Inches | Size Flange Inches | Weight Lbs. | Price Each |
|-----------------------|--------------------|--------------------|-------------|------------|
| 12 1/2                | 5                  | 2 1/2 x 10         | 1 1/2       | \$1.75     |

### Aluminum Racing Fin

CAST SILICON ALUMINUM



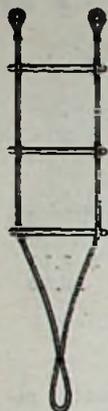
Fig. 190

| Length Overall Inches | Depth Blade Inches | Size Flange Inches | Weight Lbs. | Price Each |
|-----------------------|--------------------|--------------------|-------------|------------|
| 9                     | 5 1/2              | 2 x 9              | 1 1/4       | \$1.75     |



## Rope Swimming Ladders

WITH ROUND WOOD RUNGS



Made of  $\frac{5}{8}$  inch best grade manila rope with hardwood rungs in mahogany finish.

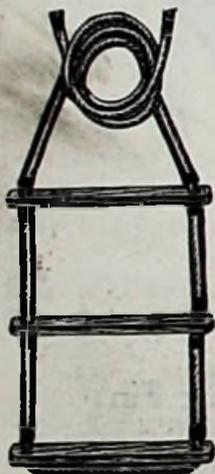
Furnished complete with lanyards 6 feet long for fastening on board and thimbles with light lanyard on lower end for tying down.

|                         |                               |                      |
|-------------------------|-------------------------------|----------------------|
| Price Per Step Complete | Distance Between Steps Inches | Size of Rungs Inches |
| \$1.00                  | 12                            | 14x1 $\frac{1}{4}$   |

Fig. 991

## Rope Swimming Ladders

WITH FLAT WOOD STEPS



Made of  $\frac{5}{8}$  inch best grade manila rope with ash steps, varnished.

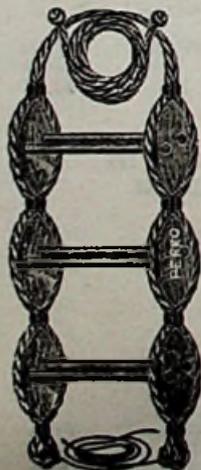
Furnished complete with lanyards 6 feet long for fastening on board.

|                         |                               |                                    |
|-------------------------|-------------------------------|------------------------------------|
| Price Per Step Complete | Distance Between Steps Inches | Size of Steps Inches               |
| \$1.50                  | 12                            | 20x3 $\frac{3}{4}$ x $\frac{3}{4}$ |

Fig. 992

## Rope Boarding Ladders

WITH OVAL SIDES AND DOUBLE RUNGS



The finest boarding ladder on the market. Made of first grade  $\frac{5}{8}$  manila rope. Selected ash sides and steps, varnished.

Furnished complete with lanyards 6 feet long for fastening on board, and thimbles with light lanyard on lower end for tying down.

|                               |                      |                         |
|-------------------------------|----------------------|-------------------------|
| Distance Between Steps Inches | Size of Rungs Inches | Price per step complete |
| 12                            | 14x1 $\frac{1}{8}$   | \$2.50                  |

Fig. 993

## Ladder Locks

CAST BRONZE

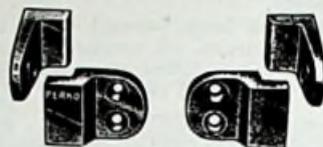


Fig. 669

|                         |                       |                         |                       |
|-------------------------|-----------------------|-------------------------|-----------------------|
| Height Inches           | Length Socket Inches  | Length Bracket Inches   | Weight Per Set Ounces |
| 1 $\frac{3}{4}$         | 1                     | 1 $\frac{3}{4}$         | 12                    |
| Polished Bronze Per Set | Nickel Plated Per Set | Chromium Plated Per Set |                       |
| \$1.75                  | \$2.75                | \$4.00                  |                       |

A set consists of four pieces illustrated

## Ladder Hooks

CAST BRONZE

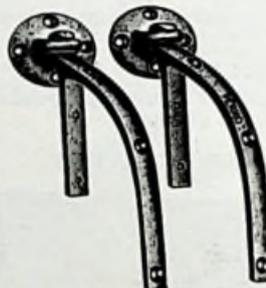


Fig. 670

|                       |                         |                                  |                         |
|-----------------------|-------------------------|----------------------------------|-------------------------|
| Extreme Length Inches | Length Brace Inches     | Size Plate Inches                | Weight Per Set Pounds   |
| 12                    | 4                       | 2 $\frac{1}{2}$ x3 $\frac{3}{8}$ | 4                       |
| Plain Bronze Per Set  | Polished Bronze Per Set | Nickel Plated Per Set            | Chromium Plated Per Set |
| \$7.00                | \$8.50                  | \$10.00                          | \$12.50                 |

## Ladder Hooks

CAST BRONZE

WITH FLUSH PLATES FOR DECK

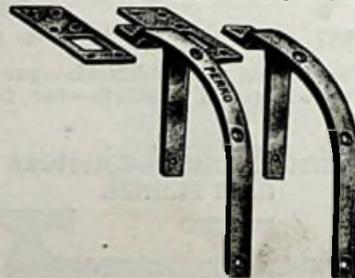


Fig. 994

|                       |                         |                       |                         |
|-----------------------|-------------------------|-----------------------|-------------------------|
| Extreme Length Inches | Length Brace Inches     | Size of Plate Inches  | Weight Per Set Pounds   |
| 10                    | 3 $\frac{3}{4}$         | 3 $\frac{1}{4}$ x2    | 4                       |
| Plain Bronze Per Set  | Polished Bronze Per Set | Nickel Plated Per Set | Chromium Plated Per Set |
| \$7.00                | \$8.50                  | \$10.00               | \$12.50                 |

## Dock Roller FOR CANOES AND BOATS

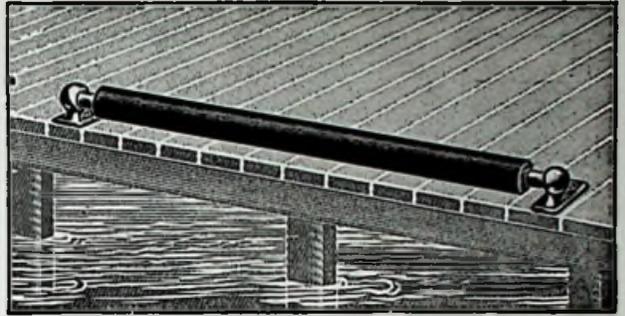


Fig. 400

An effective and simple means of rolling a canoe or boat from the water to the dock without damage. End posts are solid cast bronze.

### HARD RUBBER ROLLER ON BRASS AXLE

| Diam. Shaft Inches | Diam. Rubber Inches | Height Inches | Length Inches | Price  |
|--------------------|---------------------|---------------|---------------|--------|
| 3/4                | 1 1/2               | 2             | 27            | \$5.00 |
| 7/8                | 1 3/4               | 2 1/4         | 28            | 6.00   |
| 1                  | 1 3/4               | 2 1/4         | 30            | 7.00   |
| 1                  | 1 3/4               | 2 1/4         | 36            | 8.00   |

### HARD WOOD ROLLER

| Diam. Shaft Inches | Diam. Roller Inches | Height Inches | Length Inches | Price  |
|--------------------|---------------------|---------------|---------------|--------|
| 3/4                | 1 1/2               | 2             | 27            | \$3.00 |
| 7/8                | 1 1/2               | 2 1/8         | 28            | 3.50   |
| 1                  | 1 1/2               | 2 1/4         | 31            | 4.00   |

## Canoe Carrier

COMBINATION CARRIER AND BACK REST  
STRONG RUBBER TIRED WHEELS

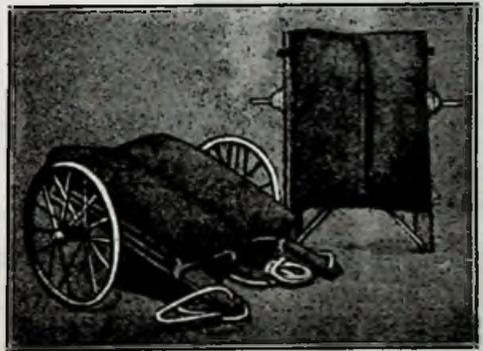


Fig. 431

| Diam. Wheels Inches | Diam. Tires Inches | Weight Pounds | Price Each |
|---------------------|--------------------|---------------|------------|
| 14                  | 1 1/4              | 11            | \$9.00     |

A perfect carrier when making a portage, a perfect back rest when the canoe is in the water and the cushion a life preserver in an emergency. Wheels are the snap on type. No time lost in converting carrier into a back rest.

## Rubber Drip Cups FOR DOUBLE CANOE PADDLES



Fig. 441

Made of good live rubber that will retain its elasticity and compactness when used around salt water.

Per pair ..... \$ .50

## Mortise Locks

CAST BRONZE—POLISHED



Cast bronze case with reversible latch bolt. Furnished with polished striking plate and one brass bit key.

Fig. 944

| No. | Each   | Case Inches   | Facing Inches | Backset Inches | Splindle Hub Inches |
|-----|--------|---------------|---------------|----------------|---------------------|
| 1   | \$3.00 | 3 x 2x1/2     | 4 1/8 x 1 1/8 | 1 1/2          | 1/8                 |
| 2   | 3.80   | 3 1/2 x 3x1/2 | 5 x 3/4       | 2 1/4          | 1/8                 |

## Mortise Lock Sets

CAST BRONZE—POLISHED

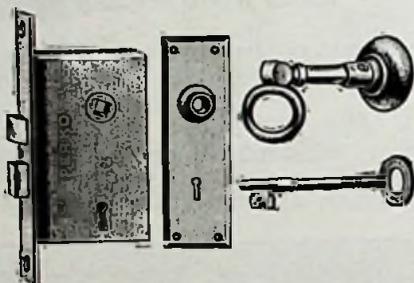


Fig. 945

The following shows mortise lock Fig. 944 numbers 1 and 2 made up in various sets.

### SET A

With Combination Escutcheons, Round Knob and Drop Handle

|                           |        |
|---------------------------|--------|
| Size No. 1, Price Per Set | \$6.80 |
| Size No. 2, Price Per set | 7.50   |

### SET B

With Combination Escutcheons and Two Round Knobs

|                           |        |
|---------------------------|--------|
| Size No. 1, Price Per Set | \$6.80 |
| Size No. 2, Price Per Set | 7.50   |

### SET C

With Shield Escutcheons, Round Knob and Drop Handle

|                           |        |
|---------------------------|--------|
| Size No. 1, Price Per Set | \$6.00 |
| Size No. 2, Price Per Set | 7.00   |

### SET D

With Shield Escutcheons and Two Round Knobs

|                           |        |
|---------------------------|--------|
| Size No. 1, Price Per Set | \$6.00 |
| Size No. 2, Price Per Set | 7.00   |

| For Set No. | Combination Escutcheon Inches | Diameter Round Knob Inches | Shield Escutcheon Inches |
|-------------|-------------------------------|----------------------------|--------------------------|
| 1           | 4 3/8 x 1 1/8                 | 1 3/4                      | 1 1/2                    |
| 2           | 6 x 1 1/2                     | 2                          | 1 3/4                    |

All of the above sets can be furnished with oval knobs if desired—Price on application.

Extra keys for above locks furnished to order.

## Shield Escutcheons

CAST BRASS—POLISHED



Fig. 946

Showing the type of escutcheon furnished with lock sets C and D.

| No. | Each   | Size Inches |
|-----|--------|-------------|
| 1   | \$ .20 | 1 1/2       |
| 2   | .20    | 1 3/4       |

## Barrel Bolts

CAST BRASS—POLISHED



Fig. 947

| No. | Each   | Size Inches   | Weight Per Dozen Pounds |
|-----|--------|---------------|-------------------------|
| 1   | \$ .55 | 2 1/4 x 1 1/8 | 1 1/2                   |
| 2   | .75    | 3 x 1 1/4     | 2                       |
| 3   | .90    | 4 x 1 1/4     | 3                       |

## Door Buttons

CAST BRASS—POLISHED

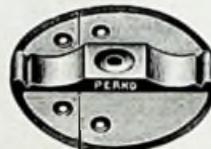


Fig. 948

| No. | Per Dozen Complete | Without Plate Per Dozen | Size Inches | Weight Per Doz. Pounds |
|-----|--------------------|-------------------------|-------------|------------------------|
| 1   | \$3.50             | \$1.40                  | 1 1/2       | 3/8                    |
| 2   | 4.00               | 2.00                    | 1 3/4       | 3/8                    |
| 3   | 5.00               | 2.25                    | 2           | 1 5/8                  |

## Cupboard Turns

CAST BRASS—POLISHED

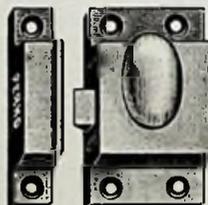


Fig. 949

Cast brass case and rim strike in polished finish. Oval turn knob with screws to match.

| No. | Each   | Size Inches   |
|-----|--------|---------------|
| 1   | \$ .80 | 2 1/8 x 1 1/2 |

## Cupboard Catches

CAST BRASS—POLISHED

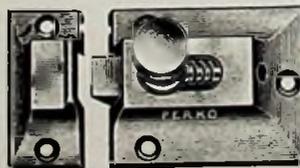


Fig. 950

Cast brass case and rim strike in polished finish; round slide knob. With screws to match.

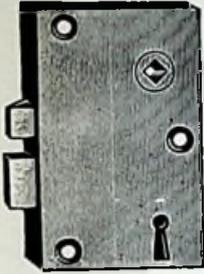
| No. | Each   | Size Inches   |
|-----|--------|---------------|
| 1   | \$ .45 | 1 1/8 x 1 1/8 |
| 2   | .55    | 1 1/4 x 1 1/2 |
| 3   | .60    | 1 1/4 x 1 3/8 |





### Rim Locks

CAST BRONZE—POLISHED



All bronze, with reversible latch bolt for right and left hand doors.

Furnished with polished bronze nosings and one brass bit key.

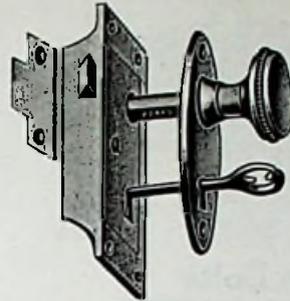
Fig. 1045

| No. | Each   | Size Case Inches |
|-----|--------|------------------|
| 1   | \$3.00 | 2 1/2 x 2        |
| 2   | 3.25   | 3 3/4 x 2 1/2    |

| Spindle Inches | Backset Inches |
|----------------|----------------|
| 5/16           | 1 1/2          |
| 3/8            | 1 3/8          |

### Closet Rim Lock Sets

CAST BRASS—POLISHED



Made in right and left hand reverse bev-els.

Furnished with two cast brass keys.

Illustration shows right hand reverse bevel lock.

Specify—Right or Left Hand

Fig. 1047

| Each   | Size Lock Inches | Diam. Knob Inches | Size Escutcheon Inches | Backset Inches |
|--------|------------------|-------------------|------------------------|----------------|
| \$6.00 | 3 3/8 x 1 1/2    | 1 1/8             | 2 7/8 x 1 1/8          | 1              |

### Rim Lock Sets

CAST BRONZE—POLISHED

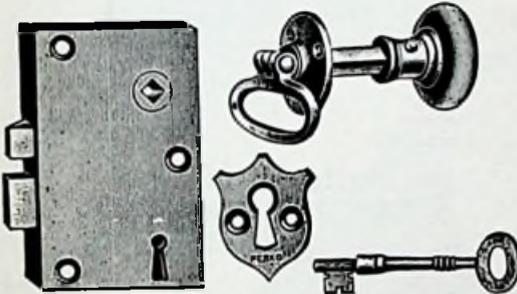


Fig. 1046

The following shows Rim Lock Fig. 1045, Numbers 1 and 2 made up in various sets.

#### SET A

With Combination Escutcheons, Round Knob and Drop Handle

|                           |        |
|---------------------------|--------|
| Size No. 1, Price Per Set | \$6.00 |
| Size No. 2, Price Per Set | 7.00   |

#### SET B

With Shield Escutcheons, Round Knob and Drop Handle

|                           |        |
|---------------------------|--------|
| Size No. 1, Price Per Set | \$5.80 |
| Size No. 2, Price Per Set | 6.80   |

#### SET C

With Shield Escutcheons and Two Round Knobs

|                           |        |
|---------------------------|--------|
| Size No. 1, Price Per Set | \$5.60 |
| Size No. 2, Price Per Set | 6.60   |

| For Set No. | Combination Escutcheon Inches | Diameter Round knob Inches | Shield Escutcheon Inches |
|-------------|-------------------------------|----------------------------|--------------------------|
| 1           | 4 3/8 x 1 1/8                 | 2                          | 1 1/2                    |
| 2           | 6 x 1 1/2                     | 2                          | 1 3/4                    |

All of the above sets can be furnished with oval knobs if desired—Price on Application.

Extra keys for above locks furnished to order.

### Door Knobs

CAST BRASS—POLISHED

Solid cast brass round knobs and rosettes. Wrought brass spindles.

#### Two Round Knobs

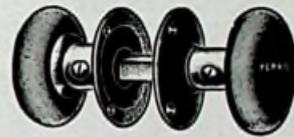


Fig. 1048

| Diam. Knob Inches |
|-------------------|
| 1 3/4             |
| 2                 |

| Per set |
|---------|
| \$2.25  |
| 2.25    |

| Size Spindle Inches |
|---------------------|
| 5/16                |
| 3/8                 |
| 1/2                 |

#### Round Knob and Drop Handle



Fig. 1049

| Diameter Knob Inches |
|----------------------|
| 1 3/4                |
| 2                    |

| Per Set |
|---------|
| \$2.25  |
| 2.25    |

| Size Spindle Inches |
|---------------------|
| 5/16                |
| 3/8                 |
| 1/2                 |

Knobs for Rim Locks have One Rosette  
Knobs for Mortise Locks have Two Rosettes

### Combination Escutcheons

CAST BRASS—POLISHED

With beveled edges, highly polished finish.



Fig. 1050

| No. | Each   | Size Inches   | For Spindle Inches |
|-----|--------|---------------|--------------------|
| 1   | \$ .85 | 4 3/8 x 1 1/8 | 5/16               |
| 2   | .85    | 6 x 1 1/2     | 3/8                |

**Flush Ring Catch**  
CAST BRASS—POLISHED

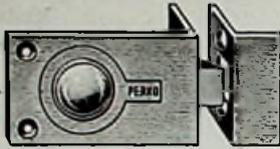


Fig. 1051

Size  
Inches  
1 1/8 x 1 1/4

Each  
\$ .50

**Flush Bolts**  
CAST BRONZE—POLISHED



Fig. 1052

Size  
Inches  
3/8 x 2 1/2  
5/8 x 3

Each  
\$ .40  
.45

**Ship Bolts**  
HEAVY CAST BRONZE—POLISHED

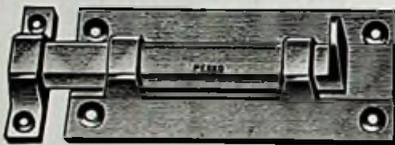


Fig. 1053

Size  
Inches  
3 x 1 1/8  
4 x 1 3/8  
5 x 1 3/8

Each  
\$ .50  
.66  
.80

**Square Neck Bolts**  
HEAVY CAST BRONZE—POLISHED

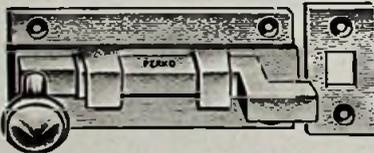


Fig. 1054

Size  
Inches  
3 x 1 1/4  
4 x 1 7/8

Each  
\$ .66  
.88

**Window Bolts**  
CAST BRONZE—POLISHED

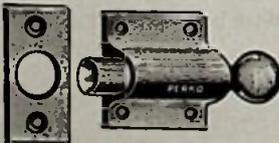


Fig. 1055

Base  
Inches  
1 1/8 x 1 1/4

Each  
\$ .60

**Elbow Catches**  
CAST BRASS—POLISHED

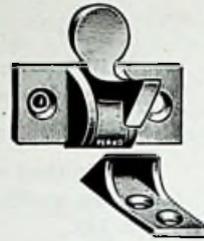


Fig. 1056

Small spiral brass spring in catch lever. For light cupboard doors, etc.

Size Base  
Inches  
1 1/8 x 3/8

Each  
\$ .25

**Flush Drawer Handle**  
CAST BRONZE—POLISHED

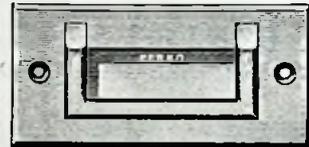


Fig. 1057

Size  
Inches  
1 3/8 x 3 1/4

Each  
\$ .70

**Butterfly Hinges**  
WROUGHT BRASS—PLAIN



Fig. 1058

Size  
Open  
Inches  
2 1/4  
3

Per  
Pair  
\$ .10  
.15

**Spring Hinges**  
WROUGHT BRASS—PLAIN

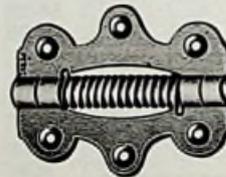


Fig. 1059

Length  
Inches  
2 3/8  
3

Per  
Pair  
\$ .50  
.75

**Safety Hasps**  
EXTRA HEAVY CAST BRONZE—POLISHED



Fig. 1060  
Length  
Width  
Inches  
4 1/2  
1 1/8

Each  
\$1.75

## Strap Hinges

GALVANIZED MALLEABLE IRON AND BRONZE  
BRASS PINS



Fig. 120

| Length Opened Inches | Galv. Per Pair | Plain Bronze Per Pair | Polished Bronze Per Pair | Nickel Plated Per Pair | Chrom. Plated Per Pair | Weight Per Pair Pounds |
|----------------------|----------------|-----------------------|--------------------------|------------------------|------------------------|------------------------|
| 4                    | \$ .40         | \$ .50                | \$ .80                   | \$1.30                 | \$2.05                 | $\frac{1}{4}$          |
| 6                    | .60            | .80                   | 1.25                     | 1.85                   | 2.75                   | $\frac{5}{8}$          |
| 8                    | .95            | 1.25                  | 1.85                     | 2.60                   | 3.60                   | $\frac{7}{8}$          |
| 10                   | 1.20           | 1.65                  | 2.40                     | 3.40                   | 4.50                   | 1 $\frac{1}{8}$        |
| 12                   | 1.70           | 2.30                  | 3.10                     | 4.10                   | 5.25                   | 1 $\frac{5}{8}$        |

## Port Hinges

GALVANIZED MALLEABLE IRON AND BRONZE  
BRASS PINS

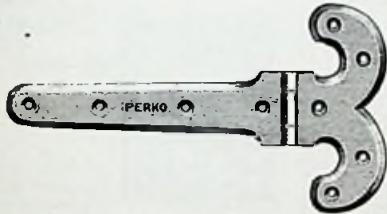


Fig. 109

| Length Opened Inches | Galv. Per Pair | Plain Bronze Per Pair | Polished Bronze Per Pair | Nickel Plated Per Pair | Chrom. Plated Per Pair | Weight Per Pair Pounds |
|----------------------|----------------|-----------------------|--------------------------|------------------------|------------------------|------------------------|
| 4                    | \$ .60         | \$ .75                | \$1.10                   | \$1.60                 | \$2.60                 | $\frac{1}{2}$          |
| 6                    | .85            | 1.20                  | 1.65                     | 2.25                   | 3.40                   | $\frac{7}{8}$          |
| 8                    | 1.30           | 1.60                  | 2.25                     | 3.00                   | 4.25                   | 1 $\frac{1}{2}$        |
| 10                   | 2.00           | 2.45                  | 3.25                     | 4.00                   | 5.25                   | 2                      |
| 12                   | 2.60           | 4.30                  | 5.15                     | 6.00                   | 7.50                   | 2 $\frac{5}{8}$        |

## Cuddy Door Hinges

HEAVY CAST BRONZE

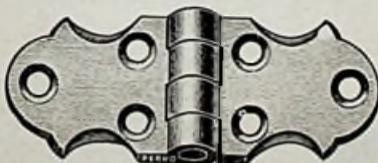


Fig. 951

| Length Opened Inches | Plain Bronze Per Pair | Pol. Bronze Per Pair |
|----------------------|-----------------------|----------------------|
| 3                    | \$ .55                | \$1.10               |
| 3 $\frac{1}{2}$      | .58                   | 1.20                 |
| 4                    | .60                   | 1.25                 |
| 5                    | .80                   | 1.75                 |

## Fast Pin Butt Hinges

CAST BRASS—EMERY FINISH  
BRASS PINS

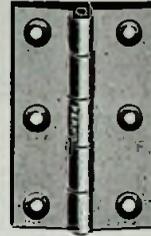


Fig. 952

| Size Open Inches                  | Per Doz. Pairs | Size Open Inches                  | Per Doz. Pairs |
|-----------------------------------|----------------|-----------------------------------|----------------|
| 1 $\frac{1}{2}$ x 1 $\frac{1}{4}$ | \$ 4.80        | 3 x 1 $\frac{1}{2}$               | \$13.25        |
| 1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ | 5.04           | 3 x 2                             | 13.44          |
| 1 $\frac{3}{4}$ x 1 $\frac{1}{4}$ | 5.04           | 3 x 2 $\frac{1}{4}$               | 15.36          |
| 1 $\frac{3}{4}$ x 1 $\frac{1}{2}$ | 5.76           | 3 x 2 $\frac{1}{2}$               | 15.36          |
| 2 x 1 $\frac{1}{4}$               | 6.00           | 3 x 3                             | 16.48          |
| 2 x 1 $\frac{1}{2}$               | 6.48           | 3 $\frac{1}{2}$ x 2 $\frac{1}{2}$ | 20.00          |
| 2 x 1 $\frac{3}{4}$               | 7.44           | 3 $\frac{1}{2}$ x 3               | 21.60          |
| 2 x 2                             | 7.92           | 3 $\frac{1}{2}$ x 3 $\frac{1}{2}$ | 24.00          |
| 2 $\frac{1}{2}$ x 1 $\frac{1}{2}$ | 9.36           | 4 x 3                             | 28.16          |
| 2 $\frac{1}{2}$ x 1 $\frac{3}{4}$ | 10.56          | 4 x 3 $\frac{1}{2}$               | 31.44          |
| 2 $\frac{1}{2}$ x 2               | 10.80          | 4 x 4                             | 33.60          |
| 2 $\frac{1}{2}$ x 2 $\frac{1}{2}$ | 12.00          |                                   |                |

Other Sizes Furnished to Order

## Loose Pin Butt Hinges

CAST BRASS—POLISHED  
BRASS PINS

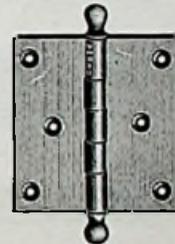


Fig. 953

| Size Open Inches                  | Size Screw Inches | Per Pair | Size Open Inches                  | Size Screw Inches | Per Pair |
|-----------------------------------|-------------------|----------|-----------------------------------|-------------------|----------|
| 2 x 1 $\frac{1}{2}$               | $\frac{3}{4}$ x 6 | \$1.15   | 3 x 3                             | 1 x 8             | \$2.30   |
| 2 x 2                             | $\frac{3}{4}$ x 7 | 1.40     | 3 $\frac{1}{2}$ x 3               | 1 x 11            | 3.00     |
| 2 $\frac{1}{2}$ x 2               | $\frac{7}{8}$ x 7 | 1.65     | 3 $\frac{1}{2}$ x 3 $\frac{1}{2}$ | 1 x 11            | 3.30     |
| 2 $\frac{1}{2}$ x 2 $\frac{1}{2}$ | $\frac{7}{8}$ x 7 | 1.80     | 4 x 3                             | 1 x 11            | 4.50     |
| 3 x 2                             | 1 x 8             | 2.00     | 4 x 3 $\frac{1}{2}$               | 1 x 11            | 5.00     |
| 3 x 2 $\frac{1}{2}$               | 1 x 8             | 2.20     | 4 x 4                             | 1 x 11            | 6.00     |

One Pair in Box with Screws

## Skylight or Hatch Hinges

CAST BRONZE



Fig. 376

| Length Between Joints Inches | Plain Bronze Per Pair | Polished Bronze Per Pair | Nickel Plated Per Pair | Chromium Plated Per Pair | Length Open Inches |
|------------------------------|-----------------------|--------------------------|------------------------|--------------------------|--------------------|
| 2                            | \$1.80                | \$3.00                   | \$3.75                 | \$5.25                   | 11 $\frac{1}{4}$   |
| 3                            | 2.00                  | 3.15                     | 4.00                   | 5.65                     | 12 $\frac{1}{4}$   |
| 4                            | 2.20                  | 3.50                     | 4.50                   | 6.50                     | 13                 |
| 5                            | 3.50                  | 4.95                     | 6.25                   | 8.45                     | 16 $\frac{1}{4}$   |
| 6                            | 3.75                  | 5.25                     | 6.75                   | 9.25                     | 17                 |



## Boston Hasp Hinges

GALVANIZED MALLEABLE IRON AND BRONZE

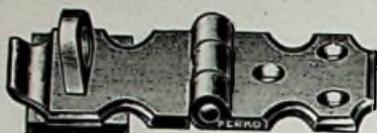


Fig. 954

| Length Opened Inches | Galv. Each | Pl. Bronze Each | Pol. Bronze Each |
|----------------------|------------|-----------------|------------------|
| 4                    | \$ .40     | \$ .75          | \$1.10           |
| 6                    | .55        | 1.00            | 1.65             |

## Door Pulls

CAST BRONZE

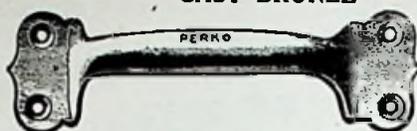


Fig. 775

| Length Inches | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |
|---------------|----------------------|--------------------|----------------------|
| 4 1/4         | \$0.40               | \$0.65             | \$1.00               |
| 6             | 0.50                 | 0.75               | 1.10                 |

## Security Hasp Hinges

POLISHED BRONZE

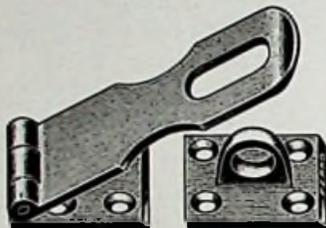


Fig. 955

| Length Closed Inches | Pol. Bronze Each | Width Inches |
|----------------------|------------------|--------------|
| 3                    | \$ .42           | 1            |
| 3 3/4                | .55              | 1 1/8        |

## Drawer Pulls

CAST BRASS—POLISHED



Fig. 958

| Size Inches | Each   |
|-------------|--------|
| 3           | \$ .40 |
| 4           | .45    |

## Flush Ring Pulls

CAST BRASS—POLISHED



Fig. 841

| Number                | 1             | 2             | 3             | 4         |
|-----------------------|---------------|---------------|---------------|-----------|
| Size of Plate, Inches | 1 1/4 x 1 1/2 | 1 1/2 x 1 1/8 | 1 1/8 x 2 1/2 | 2 x 2 1/4 |
| Price, Each           | \$.50         | \$.63         | \$.85         | \$1.00    |

## Cabin Door Hooks

CAST BRASS—POLISHED



Fig. 956

| Size Inches | Each   | Size Inches | Each   |
|-------------|--------|-------------|--------|
| 1 1/2       | \$ .40 | 3 1/2       | \$ .70 |
| 2           | .45    | 4           | .75    |
| 2 1/2       | .55    | 5           | .90    |
| 3           | .60    | 6           | 1.20   |

## Wardrobe Hooks

CAST BRONZE—POLISHED



Fig. 840

| Width Inches | Projection Inches | Price Each |
|--------------|-------------------|------------|
| 2 3/8        | 1 1/2             | \$ .30     |

## Cabin Door Hooks

DOUBLE JOINTED  
CAST BRASS—POLISHED



Fig. 957

| Size Inches | Each   | Size Inches | Each   |
|-------------|--------|-------------|--------|
| 2           | \$1.50 | 4           | \$1.70 |
| 2 1/2       | 1.50   | 5           | 1.85   |
| 3           | 1.55   | 6           | 2.00   |

## Coat and Hat Hooks

CAST BRASS—POLISHED

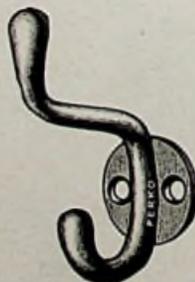


Fig. 959

| Projection Inches | Each   |
|-------------------|--------|
| 2 1/4             | \$ .40 |

## Refrigerator Hinges

CAST BRASS—POLISHED

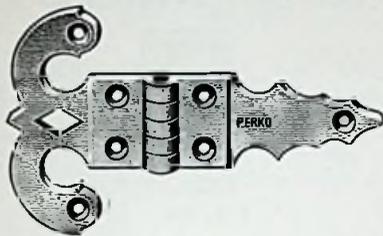


Fig. 1061

| Length Overall Inches | Length Strap Inches | Flush Type Per pair | Offset Type Per pair |
|-----------------------|---------------------|---------------------|----------------------|
| 5                     | 3                   | \$ .70              | \$ .84               |
| 6 1/4                 | 4                   | 1.10                | 1.30                 |
| 7 1/4                 | 5                   | 1.40                | 1.80                 |
| 8 1/2                 | 6                   | 1.70                | 2.30                 |

Offset Type has 3/8 inch offset  
Be sure to Specify Flush or Offset Type

## Refrigerator Levers

CAST BRASS—POLISHED

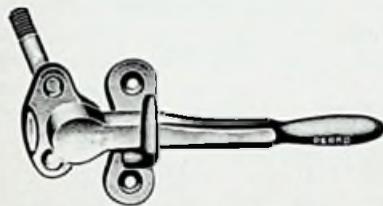


Fig. 1062

An integral stop on lever plate will keep lever in up-right position when door is open.  
Reversible for right or left hand.

| Length lever Inches | Length bolt Inches | Price Each |
|---------------------|--------------------|------------|
| 5 1/2               | 5                  | \$1.20     |
| 6 1/2               | 7                  | 1.70       |
| 9                   | 7 1/2              | 3.00       |

## Refrigerator Fasteners

CAST BRASS—POLISHED



Fig. 1063

Made either right or left hand with flush striking plate. Holds doors without strain on the rivet. Has brass pin.

Illustration shows right hand.

| Length overall Inches | Size lever Inches | Price Each |
|-----------------------|-------------------|------------|
| 5                     | 4                 | \$ .95     |
| 6 1/4                 | 4 3/4             | 2.50       |

## Cabinet Latches

CAST BRASS—POLISHED

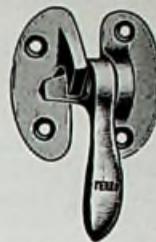


Fig. 1064

With flush striking plate and brass pin, spring closing. Made either right or left hand.

| Length Overall Inches | Length Lever Inches | Polished Brass Each | Chromium Plated Each |
|-----------------------|---------------------|---------------------|----------------------|
| 2 1/2                 | 2                   | \$ .50              | \$ .70               |

## Door Holders

SIDE PATTERN  
CAST BRONZE—POLISHED

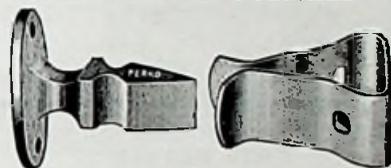


Fig. 1065

Projection Inches  
2

Price Per set  
\$ .90

## FLOOR PATTERN

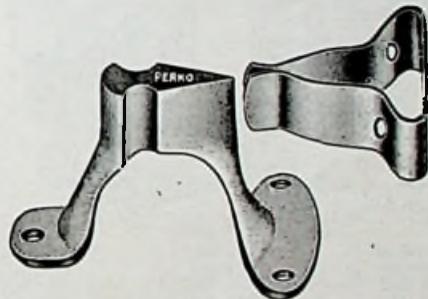


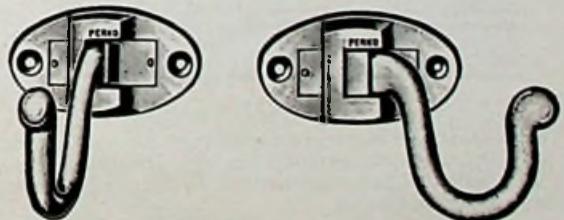
Fig. 1066

Height From floor Inches  
2

Price Per set  
\$1.00

## Folding Wardrobe Hook

CAST BRONZE



Open

Closed

Fig. 1069

Something entirely new in Wardrobe Hooks for narrow places where space is valuable.

Hook is held open by flat brass spring but can be folded back against the wall entirely out of the way.

| Tumbled Finish Each | Nickel Plated Each | Projection Open Inches | Projection Closed Inches |
|---------------------|--------------------|------------------------|--------------------------|
| \$ .50              | \$ .65             | 2 1/2                  | 1/2                      |

### Sash Hinges

CAST BRONZE

A set consists of two brackets with adjusting screws and two hinge plates, right and left hand.

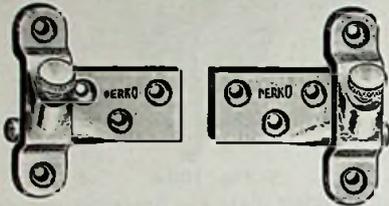


Fig. 418

| No. | Size of Hinge Plates Inches | Size of Bracket Base Inches | Weight Per Set Ounces | Length of Pin Inches |
|-----|-----------------------------|-----------------------------|-----------------------|----------------------|
| 1   | 1 1/8 x 7/8                 | 2 1/2 x 1 1/8               | 6                     | 7/8                  |
| 2   | 1 1/8 x 7/8                 | 3 1/4 x 1 1/8               | 7                     | 7/8                  |

| No. | Polished Bronze Per Set | Nickel Plated Per Set | Chromium Plated Per Set |
|-----|-------------------------|-----------------------|-------------------------|
| 1   | \$1.25                  | \$1.75                | \$2.50                  |
| 2   | 1.65                    | 2.15                  | 3.00                    |

### Combination Sash Hinges

WITH CURTAIN ROD SOCKETS  
CAST BRONZE

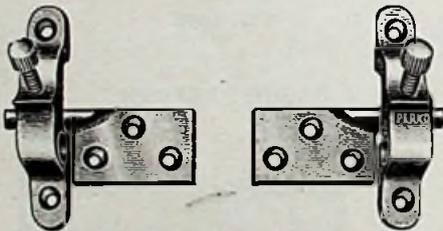


Fig. 960

| Size of Hinge Plates Inches | Size of Bracket Base Inches | Weight Per Set Ounces | Length of Pin Inches |
|-----------------------------|-----------------------------|-----------------------|----------------------|
| 1 1/8 x 7/8                 | 2 3/4 x 1/2                 | 7                     | 7/8                  |

|  | Polished Bronze Per Set | Nickel Plated Per Set | Chromium Plated Per Set |
|--|-------------------------|-----------------------|-------------------------|
|  | \$1.25                  | \$1.75                | \$2.50                  |

### Continuous Hinge

WROUGHT BRASS AND NICKEL SILVER



Fig. 211

The neatest and most practical hinge for use on hatch covers, locker doors, windshields, etc. Hinge has brass pin, and is drilled and countersunk. Holes are two inches apart, center to center.

| Width Open Inches | Polished Brass Each | Nickel Plated Each | Chrom. Plated Each | Length Inches | Gauge |
|-------------------|---------------------|--------------------|--------------------|---------------|-------|
| 1 3/8             | \$1.50              | \$1.75             | \$2.00             | 60            | .045  |
| 1 1/4             | 1.65                | 1.90               | 2.25               | 60            | .040  |
| 1 1/2             | 1.75                | 2.00               | 2.50               | 60            | .040  |
| 1 1/2             | 2.10                | 2.35               | 3.00               | 72            | .040  |
| 2                 | 2.30                | 2.55               | 3.40               | 60            | .040  |
| 2                 | 2.75                | 3.00               | 3.85               | 72            | .040  |

Special widths and lengths made to order. Price on application.

### Sash Anti Rattlers

CAST BRONZE—POLISHED

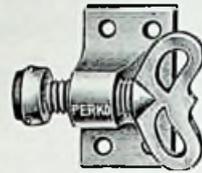


Fig. 839

Furnished with leather tip to prevent defacing of wood work. Size of base 1" x 1 1/4".

Price per dozen ..... \$15.00

### Sash Lifts

CAST BRONZE



Fig. 776

| No. | Size of Plate | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |
|-----|---------------|----------------------|--------------------|----------------------|
| 1   | 1/2 x 1 1/2   | \$.30                | \$.50              | \$1.00               |
| 2   | 3/8 x 1 1/2   | .35                  | .60                | 1.10                 |

### Sash Fasteners

LEFT OR RIGHT HAND  
CAST BRONZE—POLISHED



Fig. 777

Size—1 1/4 x 2 3/8 inches

Price Each ..... \$0.50

Please specify left or right hand

### Flush Hatch Lifting Handle

CAST BRONZE

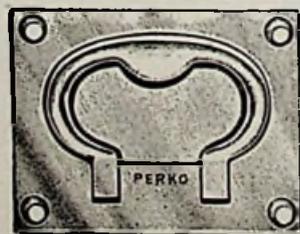


Fig. 774

Designed especially for flush installation on boats, will not catch on table or chair legs or heels of shoes.

Size—3 x 2 3/8 inches

Polished Bronze \$1.50  
Nickel Plated . . . 2.00  
Chromium Plated 3.00

## Hatch Hinges

CAST BRONZE

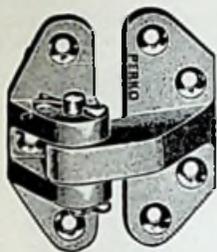


Fig. 773

A new type hatch hinge that will allow hatch cover to be laid flat on deck.

Size—2 7/8 x 3 3/4

|                     |          |
|---------------------|----------|
|                     | Price    |
|                     | Per Pair |
| Polished Bronze     | \$4.00   |
| Nickel Plated . . . | 4.50     |
| Chromium Plated     | 6.00     |

Illustration shows one-half pair.

## Hatch Hinge

CAST BRONZE AND NICKEL SILVER

With an unvisible hinge of this type, the hatch can be trimmed around the four sides with moulding, offset raises moulding clear of deck when hatch is opened



Fig. 732

|                                |                              |                                |                              |
|--------------------------------|------------------------------|--------------------------------|------------------------------|
| Length<br>Open<br>Inches       | Length<br>Closed<br>Inches   | Width<br>Inches                | Weight<br>Per Pair<br>Ounces |
| 4 3/4                          | 2 3/8                        | 1 3/8                          | 12                           |
| Polished<br>Bronze<br>Per Pair | Nickel<br>Plated<br>Per Pair | Chromium<br>Plated<br>Per Pair | Nickel<br>Silver<br>Per Pair |
| \$2.50                         | \$2.75                       | \$3.60                         | \$2.75                       |

## Hatch Bracket

POLISHED BRASS

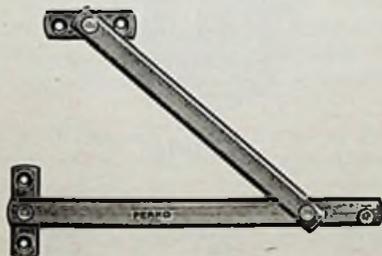


Fig. 406

|                            |                               |                              |                                |                |                              |
|----------------------------|-------------------------------|------------------------------|--------------------------------|----------------|------------------------------|
| Length<br>Closed<br>Inches | Polished<br>Brass<br>Per Pair | Nickel<br>Plated<br>Per Pair | Chromium<br>Plated<br>Per Pair | Size<br>Inches | Weight<br>Per Pair<br>Pounds |
| 10                         | \$3.00                        | \$4.50                       | \$6.00                         | 2 3/8 x 3/4    | 2                            |

## Skylight Fastener

CAST BRONZE



Fig. 770

|                |                            |                          |                            |
|----------------|----------------------------|--------------------------|----------------------------|
| Size<br>Inches | Polished<br>Bronze<br>Each | Nickel<br>Plated<br>Each | Chromium<br>Plated<br>Each |
| 3/8 x 4        | \$2.00                     | \$2.50                   | \$3.50                     |

## Skylight Hinge

CAST BRONZE—POLISHED



Fig. 771

Used with gutter made from 1/4 section of 3 inch brass tubing, cut shown one half pair, width of flange, 5 inches.

Price per Pair . . . . . \$5.25

## Skylight Raisers

ALL POLISHED BRASS



Fig. 772

Consists of two raisers and two tubing supports, tubing not furnished.

|     |                            |                                  |                  |
|-----|----------------------------|----------------------------------|------------------|
| No. | Length<br>of Arm<br>Inches | For Tubing<br>Diameter<br>Inches | Price<br>Per Set |
| 1   | 9 1/4                      | 3/8                              | \$8.50           |
| 2   | 9 1/4                      | 3/4                              | 8.50             |
| 3   | 9 1/4                      | 1/2                              | 8.50             |

## Skylight Quadrants

CAST BRONZE AND NICKEL SILVER



Fig. 449

|     |                  |                                |                              |                              |                                |
|-----|------------------|--------------------------------|------------------------------|------------------------------|--------------------------------|
| No. | Length<br>Inches | Polished<br>Bronze<br>Per pair | Nickel<br>Plated<br>Per pair | Nickel<br>Silver<br>Per pair | Chromium<br>Plated<br>Per pair |
| 1   | 5                | \$3.50                         | \$4.25                       | \$4.25                       | \$ 6.00                        |
| 2   | 8                | 5.25                           | 6.25                         | 6.25                         | 8.25                           |
| 3   | 10               | 6.50                           | 7.50                         | 7.50                         | 9.50                           |
| 4   | 12               | 7.25                           | 8.50                         | 8.50                         | 10.25                          |

## Fender Moulding

BRASS AND NICKEL SILVER

Hollow inside with flat face allowing screw heads to fit flush with surface, tapered edges to make neat fit.

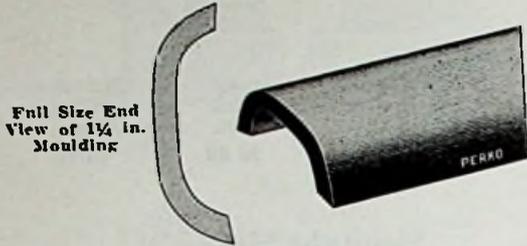


Fig. 227

| Outside Width Inches | Projection Inches | Weight Per Foot Pounds | Polished Brass Per Foot | Nickel Silver Per Foot | Chromium Plated Per Foot |
|----------------------|-------------------|------------------------|-------------------------|------------------------|--------------------------|
| $\frac{3}{8}$        | $\frac{1}{4}$     | $\frac{1}{4}$          | \$ .22                  | \$ .35                 | \$ .42                   |
| 1                    | $\frac{1}{2}$     | $\frac{1}{2}$          | .40                     | .60                    | .65                      |
| 1 $\frac{1}{4}$      | $\frac{3}{4}$     | $\frac{3}{4}$          | .60                     | .75                    | .90                      |

Furnished with holes drilled and countersunk at 10c per hole. Send information as to size of holes spacing, etc.

Only furnished in standard mill lengths.

## Moulding Ends

CAST BRONZE AND NICKEL SILVER

For finishing off ends of moulding, Fig. 227.

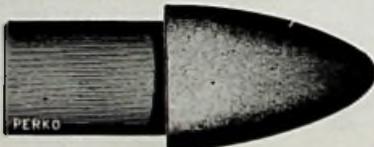


Fig. 228

| For Moulding Inches | Length Overall Inches | Weight Each Ounces | Polished Bronze Each | Nickel Silver Each | Chromium Plated Each |
|---------------------|-----------------------|--------------------|----------------------|--------------------|----------------------|
| 1                   | 2 $\frac{1}{2}$       | 1 $\frac{1}{2}$    | \$ .35               | \$ .40             | \$ .55               |
| 1 $\frac{1}{4}$     | 3                     | 2 $\frac{1}{2}$    | .40                  | .45                | .60                  |

## Fender Moulding Couplings

CAST BRONZE AND NICKEL SILVER

Fits inside moulding at joint, where two pieces are joined together.



Fig. 229

| For Moulding Inches | Width Inches      | Length Inches      | Weight Each Ounces   | Polished Bronze Each | Nickel Silver Each | Chromium Plated Each |
|---------------------|-------------------|--------------------|----------------------|----------------------|--------------------|----------------------|
| 1 $\frac{1}{4}$     | $\frac{3}{4}$     | 2 $\frac{1}{2}$    | 1 $\frac{1}{2}$      | \$ .35               | \$ .40             | \$ .55               |
| 1                   | 1                 | 3                  | 2 $\frac{1}{2}$      | .40                  | .45                | .60                  |
| For Moulding Inches | Plain Bronze Each | Nickel Silver Each | Chromium Plated Each |                      |                    |                      |
| 1 $\frac{1}{4}$     | .20               | .25                | .30                  |                      |                    |                      |

## Hatch Moulding

BRASS AND NICKEL SILVER

This type moulding insures a smooth and neat surface, as it is fastened to hatch on side, screw heads are invisible when hatch is closed.

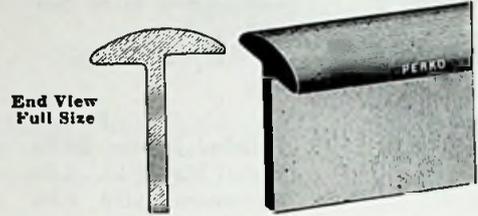


Fig. 232

| Width Surface Inches | Depth Inches  | Weight Per Foot Ounces | Polished Brass Per Foot | Nickel Silver Per Foot | Chromium Plated Per Foot |
|----------------------|---------------|------------------------|-------------------------|------------------------|--------------------------|
| $\frac{3}{4}$        | $\frac{1}{8}$ | 10                     | \$ .50                  | \$ .70                 | \$ .80                   |

Furnished with holes drilled and countersunk at 10c per hole. Send information as to size of holes spacing, etc.

Only furnished in standard mill lengths.

## Flat Hatch Trim

BRASS AND NICKEL SILVER

For neat finishing around edge of hatch. Made of 18 B & S gauge metal in standard lengths.



Fig. 243

| Width Inches    | Weight Per Foot Oz. | Polished Brass Per Foot | Nickel Silver Per Foot |
|-----------------|---------------------|-------------------------|------------------------|
| 1               | 2 $\frac{3}{4}$     | \$ .21                  | \$ .35                 |
| 1 $\frac{1}{4}$ | 3                   | .22                     | .36                    |

Furnished with holes drilled and countersunk at 10c per hole. Send information as to size of holes spacing, etc.

Stock lengths 6 to 12 feet long.

## Hubs for Wood Steering Wheels

CAST BRONZE



Fig. 1018

| Diam. Inches | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each | Number of Spokes |
|--------------|----------------------|--------------------|----------------------|------------------|
| 4            | \$ 5.00              | \$ 6.00            | \$ 8.00              | 6                |
| 5            | 7.00                 | 8.00               | 10.00                | 6                |
| 5            | 9.00                 | 10.00              | 12.00                | 8                |
| 6            | 14.00                | 15.00              | 17.50                | 8                |

State Size of Bore and Keyway when ordering.





### Maxim Silencers

WET TYPE—MODEL M2  
CAST IRON



Fig. 334

| For Exhaust Pipe Inches | Each     | Diameter Inches | Length Overall Inches | Weight Pounds |
|-------------------------|----------|-----------------|-----------------------|---------------|
| 1½                      | \$ 11.50 | 4¾              | 9¾                    | 8¾            |
| 2                       | 14.00    | 6¼              | 11                    | 15            |
| 2½                      | 19.00    | 7 11/16         | 12 3/8                | 30            |
| 3                       | 23.50    | 9 1/8           | 13½                   | 40            |
| 3½                      | 32.00    | 11              | 14¾                   | 60            |
| 4                       | 35.00    | 12 3/8          | 15¾                   | 80            |
| 5                       | 94.00    | 14              | 23                    | 145           |
| 6                       | 135.00   | 14 1/8          | 27½                   | 170           |

Use same size Silencer as diameter of Exhaust Pipe.

Made in one solid casting—cannot leak. Can be installed anywhere, close to engine or in stern of boat.

Used with equal success on Diesel as well as gasoline engines.

The model M2 silencer is designed for marine engines where water is injected into the exhaust line, and when properly installed will give practically complete elimination of the exhaust noise without imposing noticeable back pressure.

All sizes up to 4 inch are tapped for standard female pipe threads. The larger sizes are faced and drilled for standard pipe flanges. All sizes are fitted with tapped openings over the inlet and under the outlet for a water connection and water drain respectively.

Designed to take all the cooling water discharge from the engine making unnecessary any other water discharge through the hull. Can be installed practically anywhere in the exhaust line that is convenient, either near the engine or near the stern, however a two foot tail pipe at the silencer outlet will give best results.

Maxim silencers are available for dry exhausts of gasoline and Diesel engines. Give bore, number of cylinders, R. P. M. and exhaust size.

### Military Mast Sets

CAST BRONZE—POLISHED

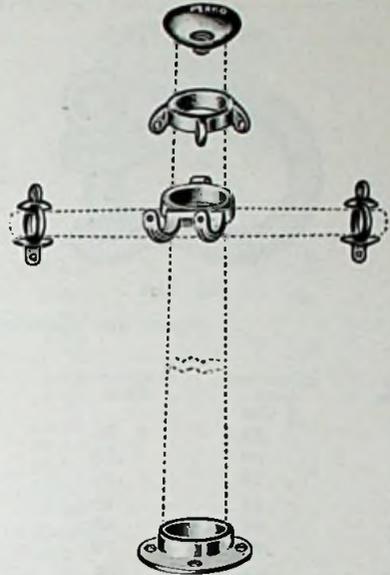


Fig. 586

Furnished in two sizes, a handsome and practical set of fittings, mast cap has small bronze sheave for flag halyards.

| Set No. | Deck Flange Inches | Inside Diam. Cross Arm Bracket Inches | Inside Diam. Eye Band Inches | Inside Diam. Mast Cap Inches | Inside Diam. End Fittings Inches |
|---------|--------------------|---------------------------------------|------------------------------|------------------------------|----------------------------------|
| 1       | 2¾                 | 2½                                    | 2 1/8                        | 1 7/8                        | 1¼                               |
| 2       | 3½                 | 3                                     | 2¾                           | 2¼                           | 1½                               |

| Set No. | Per Set Complete | Deck Flange Each | Cross Arm Bracket Each | Eye Band Each | Mast Cap Each | End Fittings for Cross Arm Each |
|---------|------------------|------------------|------------------------|---------------|---------------|---------------------------------|
| 1       | \$6.75           | \$1.50           | \$1.75                 | \$1.50        | \$1.50        | \$ .60                          |
| 2       | 9.00             | 2.00             | 2.25                   | 2.00          | 2.00          | 1.00                            |

### Hinged Mast Steps

CAST BRONZE



Fig. 1039

Mast can be lowered to horizontal position parallel with deck, base has integral lug which prevents side strain on hinge.

| Inside Diam. Step Inches | Polished Bronze Each | Nickel Plated Each | Chrom. Plated Each | Diam. Base Inches | Height Inside Step Inches |
|--------------------------|----------------------|--------------------|--------------------|-------------------|---------------------------|
| 2                        | \$2.75               | \$3.25             | \$5.25             | 4                 | 2½                        |
| 2½                       | 3.25                 | 3.75               | 5.75               | 4½                | 3                         |
| 3                        | 6.00                 | 6.50               | 8.50               | 5                 | 3½                        |

## ANCHOR SHACKLES DROP FORGED STEEL AND BRONZE

SCREW PIN

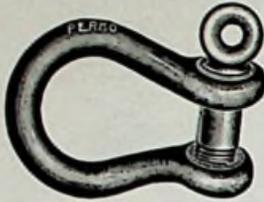


Fig. 314

ROUND PIN

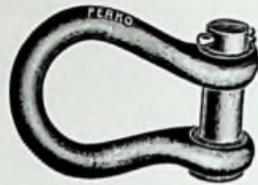


Fig. 315

Prices and Dimensions Below Apply to Both Figs. 314 and 315

| Size Inches | Galvanized Each | Japanned Each | Plain Bronze Each | Polished Bronze Each | Length Inside Inches | Between Eyes Inches | Diameter Pin Inches | Weight Per 100 in Pounds |
|-------------|-----------------|---------------|-------------------|----------------------|----------------------|---------------------|---------------------|--------------------------|
| 3/8         | \$.28           |               | \$.50             | \$.70                | 7/8                  | 1/8                 | 1/4                 | 7                        |
| 1/4         | .28             | \$.25         | .50               | .70                  | 1 1/8                | 1/2                 | 3/8                 | 12                       |
| 5/16        | .30             | .28           | .65               | .85                  | 1 1/4                | 5/8                 | 1/2                 | 21                       |
| 3/8         | .35             | .33           | 1.00              | 1.25                 | 1 5/8                | 3/4                 | 5/8                 | 32                       |
| 7/16        | .45             | .40           | 1.25              | 1.50                 | 2                    | 7/8                 | 3/4                 | 49                       |
| 1/2         | .50             | .45           | 2.00              | 2.35                 | 2 1/4                | 1                   | 7/8                 | 73                       |
| 5/8         | .80             | .70           | 3.00              | 3.50                 | 2 7/8                | 1 1/8               | 1                   | 151                      |
| 3/4         | .90             | .75           |                   |                      | 3                    | 1 1/4               | 1 1/8               | 226                      |
| 7/8         | 1.40            | 1.10          |                   |                      | 3 1/4                | 1 3/8               | 1 1/4               | 340                      |
| 1           | 1.80            | 1.45          |                   |                      | 3 3/4                | 1 5/8               | 1 1/2               | 495                      |
| 1 1/8       | 2.60            | 2.10          |                   |                      | 4 1/4                | 2                   | 1 3/8               | 691                      |
| 1 1/4       | 3.20            | 2.60          |                   |                      | 4 1/2                | 2 1/4               | 1 3/4               | 899                      |
| 1 3/8       | 4.40            | 3.60          |                   |                      | 5 1/4                | 2 3/4               | 1 7/8               | 1219                     |
| 1 1/2       | 5.25            | 4.20          |                   |                      | 5 3/4                | 2 3/4               | 2                   | 1595                     |
| 1 3/4       | 10.00           | 8.00          |                   |                      | 7                    | 2 3/4               | 2 1/4               | 2750                     |
| 2           | 15.00           | 12.00         |                   |                      | 7 3/4                | 3                   | 2 1/2               | 3900                     |
| 2 1/4       | 40.00           | 34.00         |                   |                      | 8 3/4                | 3 3/8               | 2 3/4               | 5650                     |
| 2 1/2       | 49.00           | 43.00         |                   |                      | 10                   | 4 1/8               | 3                   | 8350                     |

Bronze Shackles Are Only Furnished with Screw Pins

## CHAIN SHACKLES DROP FORGED STEEL

SCREW PIN

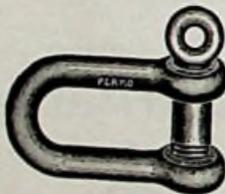


Fig. 338

ROUND PIN

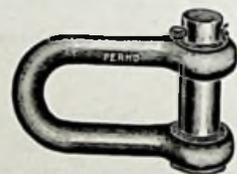


Fig. 339

Prices and Dimensions Below Apply to Both Figs. 338 and 339

| Size Inches | Galvanized Each | Japanned Each | Length Inside Inches | Between Eyes Inches | Diameter Pin Inches | Weight Per 100 in Pounds |
|-------------|-----------------|---------------|----------------------|---------------------|---------------------|--------------------------|
| 1/4         | \$.28           | \$.25         | 7/8                  | 1/2                 | 3/8                 | 12                       |
| 5/16        | .30             | .28           | 1                    | 5/8                 | 1/2                 | 18                       |
| 3/8         | .35             | .33           | 1 1/4                | 3/4                 | 5/8                 | 28                       |
| 7/16        | .45             | .40           | 1 1/2                | 7/8                 | 3/4                 | 44                       |
| 1/2         | .50             | .45           | 1 5/8                | 1                   | 7/8                 | 68                       |
| 5/8         | .80             | .70           | 2                    | 1 1/8               | 1                   | 130                      |
| 3/4         | .90             | .75           | 2 1/4                | 1 1/4               | 1 1/8               | 201                      |
| 7/8         | 1.40            | 1.10          | 2 3/8                | 1 3/8               | 1 1/4               | 288                      |
| 1           | 1.80            | 1.45          | 3 1/4                | 1 5/8               | 1 3/8               | 441                      |
| 1 1/8       | 2.60            | 2.10          | 3 1/2                | 2                   | 1 1/2               | 625                      |
| 1 1/4       | 3.20            | 2.60          | 3 3/4                | 2 1/4               | 1 3/4               | 800                      |
| 1 3/8       | 4.40            | 3.60          | 4 1/2                | 2 3/4               | 2                   | 1110                     |
| 1 1/2       | 5.25            | 4.20          | 5                    | 3                   | 2 1/4               | 1372                     |
| 1 3/4       | 10.00           | 8.00          | 5 3/4                | 3 1/4               | 2 1/2               | 2600                     |
| 2           | 15.00           | 12.00         | 6 3/4                | 3 3/8               | 2 3/4               | 3600                     |
| 2 1/4       | 40.00           | 34.00         | 7 1/4                | 3 3/4               | 3                   | 5000                     |
| 2 1/2       | 49.00           | 43.00         | 8 1/4                | 4 1/8               | 3 1/4               | 7400                     |



### Wire Rope Thimbles

GALVANIZED FORGED STEEL  
REGULAR PATTERN



Fig. 466

| For Size Rope Inches | Price Per 100 | Dimensions in Inches |        |       |       |       | Est. Wt. Per 100 in Lbs. |
|----------------------|---------------|----------------------|--------|-------|-------|-------|--------------------------|
|                      |               | A                    | B      | C     | D     | E     |                          |
| 1/8                  | \$ 4.40       | 1 1/2                | 1 1/10 | 1 1/8 | 5/8   | 3/8   | 2                        |
| 1/4                  | 4.40          | 1 1/2                | 1 1/10 | 1 1/8 | 5/8   | 3/8   | 2 1/2                    |
| 3/8                  | 4.40          | 1 1/2                | 1 1/8  | 1 1/4 | 3/4   | 3/8   | 3 1/2                    |
| 1/2                  | 5.25          | 2 1/8                | 1 3/8  | 1 1/4 | 1 1/8 | 1/2   | 5 3/8                    |
| 5/8                  | 6.00          | 2 3/8                | 1 1/8  | 1 1/2 | 1     | 1/2   | 7 1/2                    |
| 3/4                  | 7.00          | 2 5/8                | 1 3/4  | 1 5/8 | 1 1/8 | 1 1/8 | 9 1/4                    |
| 7/8                  | 8.00          | 2 3/4                | 1 7/8  | 1 3/4 | 1 1/8 | 1 1/8 | 13 1/4                   |
| 1                    | 11.00         | 3 1/8                | 2 1/2  | 2 1/4 | 1 3/8 | 1 1/8 | 22 1/2                   |
| 1 1/8                | 13.00         | 3 1/8                | 2 3/4  | 2 3/8 | 1 1/8 | 1     | 26                       |
| 1 1/4                | 16.00         | 4                    | 3      | 2 1/2 | 1 3/4 | 1 1/8 | 49                       |
| 1 1/2                | 21.00         | 4 3/4                | 3 1/4  | 3     | 2     | 1 1/8 | 61                       |
| 1 3/4                | 38.00         | 5 1/4                | 3 1/2  | 3 3/8 | 2 1/8 | 1 1/8 | 65                       |
| 2                    | 44.00         | 6                    | 4 1/4  | 3 3/4 | 2 3/8 | 1 1/8 | 103                      |
| 1 1/2                | 120.00        | 6 7/8                | 4 3/4  | 4     | 2 7/8 | 1 1/8 | 163                      |
| 1 3/4                | 160.00        | 7 1/2                | 5 1/4  | 4 3/4 | 3 1/8 | 1 1/8 | 255                      |
| 2                    | 200.00        | 8 3/4                | 6      | 5     | 3 3/8 | 2 1/8 | 380                      |

Open type made up to 1 1/8 inches.

A—Overall Length; B—Overall Width; C—Length Inside; D—Width Inside; E—Width of Score.

### Wire Rope Clips

MALLEABLE IRON SADDLE  
STEEL U-BOLT AND NUTS  
GALVANIZED



Fig. 333

| Size Wire Rope Inches | Galvanized Per 100 | Est. Wt. Per 100 in Lbs. |
|-----------------------|--------------------|--------------------------|
| 1/4                   | \$ 8.00            | 8 1/2                    |
| 1/4                   | 8.00               | 16 1/2                   |
| 3/8                   | 9.00               | 19                       |
| 3/8                   | 12.00              | 25                       |
| 1/2                   | 15.50              | 32                       |
| 1/2                   | 18.50              | 40                       |
| 5/8                   | 24.50              | 62                       |
| 3/4                   | 35.00              | 101                      |
| 3/4                   | 50.00              | 149                      |
| 1                     | 60.00              | 190                      |
| 1 1/8                 | 95.00              | 310                      |
| 1 1/4                 | 112.00             | 375                      |
| 1 3/8                 | 130.00             | 560                      |
| 1 1/2                 | 150.00             | 645                      |
| 1 3/4                 | 415.00             | 1085                     |
| 2                     | 550.00             | 1620                     |

### Manila Rope Thimbles

GALVANIZED DROP FORGED STEEL



Fig. 468

| For Dia. Rope Inches | Galvanized Per 100 | I. D. Hole | O. D. Edge to Edge | Weight Per 100 in Lbs. |
|----------------------|--------------------|------------|--------------------|------------------------|
| 1/8                  | \$ 5.00            | 3/8        | 3/4                | 1 1/2                  |
| 3/8                  | 5.00               | 1/2        | 7/8                | 2 1/4                  |
| 1/2                  | 6.00               | 5/8        | 1                  | 3 1/8                  |
| 5/8                  | 8.00               | 3/4        | 1 1/4              | 6 1/2                  |
| 3/4                  | 10.00              | 1 1/8      | 1 1/2              | 9 3/8                  |
| 7/8                  | 12.00              | 1 1/8      | 1 3/4              | 16 1/2                 |
| 1                    | 15.00              | 1 1/4      | 2                  | 20 1/4                 |
| 1 1/8                | 18.00              | 1 1/4      | 2 1/4              | 33 3/4                 |
| 1 1/4                | 20.00              | 1 3/8      | 2 1/2              | 39 1/2                 |
| 1 1/2                | 30.00              | 1 1/2      | 2 3/4              | 52                     |
| 1 3/8                | 40.00              | 1 3/4      | 3                  | 62                     |
| 1 1/2                | 50.00              | 2          | 3 1/2              | 112                    |
| 1 3/4                | 100.00             | 2 3/8      | 4                  | 146                    |
| 2                    | 200.00             | 2 3/4      | 4 1/2              | 206                    |

### Sail Thimbles

GALVANIZED MALLEABLE IRON AND BRASS



Fig. 469

| ★ Size Inches | Galv. Iron Per Dozen | Spun Brass Per Dozen | Outside Width of Score Inches | Weight Per Dozen |
|---------------|----------------------|----------------------|-------------------------------|------------------|
| 1/2           |                      | \$ .35               |                               | 3 oz.            |
| 3/8           |                      | .50                  |                               | 1 1/2 oz.        |
| 3/4           | \$ .45               | .55                  | 3/8                           | 3 oz.            |
| 7/8           |                      | .75                  |                               | 3 oz.            |
| 1             | .60                  | .85                  | 1/8                           | 5 oz.            |
| 1 1/8         |                      | 1.10                 |                               | 7 1/2 oz.        |
| 1 1/4         | .80                  | 1.50                 | 1/8                           | 8 oz.            |
| 1 1/2         | 1.00                 | 2.25                 | 1/2                           | 13 oz.           |
| 1 3/4         | 1.25                 |                      | 1 1/8                         | 1 1/4 lbs.       |
| 2             | 1.50                 |                      | 1 1/8                         | 1 3/4 lbs.       |
| 2 1/4         | 1.85                 |                      | 3/4                           | 2 lbs.           |
| 2 1/2         | 2.25                 |                      | 7/8                           | 2 5/8 lbs.       |
| 2 3/4         | 2.50                 |                      | 7/8                           | 3 3/4 lbs.       |
| 3             | 3.00                 |                      | 1                             | 4 3/8 lbs.       |
| <b>LIGHT</b>  |                      |                      |                               |                  |
| <b>HEAVY</b>  |                      |                      |                               |                  |
| 2             | 2.00                 |                      | 3/4                           | 2 1/8 lbs.       |
| 2 1/4         | 2.50                 |                      | 1 1/8                         | 2 7/8 lbs.       |
| 2 1/2         | 3.00                 |                      | 1 1/8                         | 3 1/8 lbs.       |
| 2 3/4         | 3.50                 |                      | 1                             | 4 3/8 lbs.       |
| 3             | 4.00                 |                      | 1 1/8                         | 6 lbs.           |
| 3 1/2         | 5.00                 |                      | 1 1/4                         | 7 7/8 lbs.       |
| 4             | 6.00                 |                      | 1 3/8                         | 10 3/4 lbs.      |
| 4 1/2         | 10.00                |                      | 1 5/8                         | 16 lbs.          |
| 5             | 15.00                |                      | 1 3/4                         | 20 lbs.          |

\*Diameter outside from edge to edge. Specify light or heavy.



**OPEN TURNBUCKLES**  
 DROP FORGED STEEL  
 GALVANIZED AND SELF COLORED

HOOK AND EYE



Fig. 390

EYE AND EYE



Fig. 391

HOOK AND HOOK



Fig. 392

JAW AND EYE



Fig. 393

JAW AND JAW



Fig. 394

All Turnbuckles Have Right and Left Hand Threads—Threads Are All Hot Galvanized

| Diameter & Takeup | Eye & Eye Hook & Eye |            | Jaw & Eye  |            | Jaw & Jaw  |            | Diameter & Takeup | Eye & Eye Hook & Eye |            | Jaw & Eye  |            | Jaw & Jaw  |            |
|-------------------|----------------------|------------|------------|------------|------------|------------|-------------------|----------------------|------------|------------|------------|------------|------------|
|                   | Galv. Each           | S. C. Each | Galv. Each | S. C. Each | Galv. Each | S. C. Each |                   | Galv. Each           | S. C. Each | Galv. Each | S. C. Each | Galv. Each | S. C. Each |
| * 1/16 x 3        | \$ .40               | \$ .36     | \$ .50     | \$ .45     | \$ .60     | \$ .55     |                   |                      |            |            |            |            |            |
| * 1/4 x 4         | .40                  | .36        | .50        | .45        | .60        | .55        | * 1 1/4 x 12      | \$ 7.25              | \$ 6.00    | \$ 9.00    | \$ 7.50    | \$ 11.00   | \$ 9.00    |
| * 5/16 x 4 1/2    | .50                  | .44        | .62        | .54        | .74        | .66        | 18                | 9.00                 | 7.50       | 11.00      | 9.00       | 13.00      | 10.50      |
| * 3/8 x 6         | .60                  | .52        | .74        | .64        | .88        | .78        | 24                | 11.50                | 9.50       | 13.00      | 11.00      | 15.00      | 12.50      |
| * 1/2 x 6         | .90                  | .80        | 1.10       | .95        | 1.30       | 1.15       | 36                | 16.00                | 13.00      | 17.00      | 14.00      | 18.00      | 15.00      |
| 9                 | 1.45                 | 1.20       | 1.70       | 1.40       | 1.90       | 1.55       | * 1 1/2 x 12      | 11.00                | 9.00       | 13.00      | 10.50      | 15.00      | 12.00      |
| 12                | 1.70                 | 1.40       | 2.00       | 1.60       | 2.30       | 1.85       | 18                | 13.50                | 11.00      | 15.75      | 13.00      | 18.00      | 15.00      |
| * 5/8 x 6         | 1.15                 | .95        | 1.30       | 1.10       | 1.50       | 1.25       | 24                | 17.00                | 14.00      | 20.00      | 16.50      | 23.00      | 19.00      |
| 9                 | 1.75                 | 1.45       | 2.00       | 1.70       | 2.30       | 1.90       | 36                | 22.00                | 18.00      | 26.00      | 21.00      | 30.00      | 24.00      |
| 12                | 2.10                 | 1.70       | 2.40       | 2.00       | 2.70       | 2.20       | 48                | 28.00                | 23.00      | 33.00      | 27.00      | 38.00      | 30.00      |
| 18                | 2.60                 | 2.20       | 3.10       | 2.60       | 3.50       | 2.90       | * 1 3/4 x 18      | 22.00                | 18.00      | 28.00      | 22.50      | 33.00      | 27.00      |
| * 3/4 x 6         | 1.50                 | 1.25       | 1.75       | 1.45       | 2.00       | 1.65       | 24                | 28.00                | 23.00      | 34.00      | 28.00      | 39.00      | 32.00      |
| 9                 | 2.30                 | 1.90       | 2.70       | 2.20       | 3.00       | 2.50       | 36                | 36.00                | 30.00      | 42.00      | 35.00      | 48.00      | 39.00      |
| 12                | 2.70                 | 2.20       | 3.10       | 2.60       | 3.50       | 2.90       | 48                | 47.00                | 38.00      | 55.00      | 44.00      | 62.00      | 50.00      |
| 18                | 3.60                 | 3.00       | 4.20       | 3.50       | 4.70       | 3.90       | * 2 x 24          | 42.00                | 35.00      | 50.00      | 41.00      | 58.00      | 47.00      |
| 24                | 4.20                 | 3.50       | 4.90       | 4.10       | 5.50       | 4.60       | 36                | 50.00                | 40.00      | 59.00      | 48.00      | 68.00      | 55.00      |
| * 7/8 x 12        | 3.40                 | 2.80       | 3.90       | 3.20       | 4.50       | 3.70       | 48                | 62.00                | 50.00      | 74.00      | 60.00      | 85.00      | 70.00      |
| 18                | 4.30                 | 3.60       | 5.00       | 4.20       | 5.75       | 4.70       | * 2 1/4 x 24      | 60.00                | 50.00      | 74.00      | 60.00      | 85.00      | 70.00      |
| 24                | 5.25                 | 4.40       | 6.25       | 5.10       | 7.00       | 5.75       | 36                | 68.00                | 55.00      | 84.00      | 69.00      | 100.00     | 82.00      |
| * 1 x 12          | 4.20                 | 3.50       | 4.80       | 4.00       | 5.50       | 4.60       | 48                | 86.00                | 70.00      | 105.00     | 84.00      | 125.00     | 98.00      |
| 18                | 5.50                 | 4.50       | 6.50       | 5.25       | 7.25       | 6.00       | * 2 1/2 x 24      | 80.00                | 65.00      | 100.00     | 78.00      | 120.00     | 91.00      |
| 24                | 6.75                 | 5.50       | 8.00       | 6.50       | 8.75       | 7.25       | 36                | 93.00                | 75.00      | 117.00     | 94.00      | 141.00     | 112.00     |
| 36                | 8.50                 | 7.00       | 10.00      | 8.25       | 11.50      | 9.25       | 48                | 110.00               | 90.00      | 138.00     | 108.00     | 166.00     | 126.00     |
| * 1 1/8 x 12      | 5.25                 | 4.20       | 6.00       | 4.90       | 6.75       | 5.50       |                   |                      |            |            |            |            |            |
| 18                | 6.75                 | 5.50       | 8.00       | 6.50       | 8.75       | 7.25       |                   |                      |            |            |            |            |            |
| 24                | 8.25                 | 6.75       | 9.50       | 8.00       | 10.50      | 8.75       |                   |                      |            |            |            |            |            |
| 36                | 10.50                | 8.50       | 12.00      | 9.75       | 13.50      | 11.00      |                   |                      |            |            |            |            |            |

For One Lock Nut Add 5% to List. For Two Lock Nuts Add 10% to List.

\*Indicates standard marine lengths.



### Improved Pipe Turnbuckles

GALVANIZED DROP FORGED STEEL  
WITH LOCK NUTS



Fig. 398

| Diam. Thread Inches | Eye and Eye Each | Jaw and Eye Each | Jaw and Jaw Each | Length of Pipe Inches | Weight Per 100 in Lbs. |
|---------------------|------------------|------------------|------------------|-----------------------|------------------------|
| 1/4                 | \$.85            | \$.95            | \$1.05           | 5 1/2                 | 47 1/2                 |
| 5/16                | 1.00             | 1.10             | 1.20             | 5 3/4                 | 62 1/2                 |
| 3/8                 | 1.15             | 1.25             | 1.35             | 6 1/2                 | 102                    |
| 1/2                 | 1.55             | 1.75             | 1.95             | 8                     | 178                    |
| 5/8                 | 2.20             | 2.45             | 2.70             | 10 3/4                | 369                    |
| 3/4                 | 3.00             | 3.35             | 3.70             | 12                    | 500                    |
| 7/8                 | 4.00             | 4.50             | 5.00             | 15                    | 775                    |
| 1                   | 5.00             | 5.60             | 6.20             | 15                    | 1025                   |
| 1 1/4               | 8.00             | 9.00             | 10.00            | 16                    | 2050                   |
| 1 1/2               | 15.00            | 16.50            | 18.00            | 21                    | 3200                   |
| 1 3/4               | 25.00            | 28.00            | 31.00            | 21                    | 4500                   |
| 2                   | 40.00            | 43.00            | 47.00            | 24                    | 7500                   |
| 2 1/4               | 65.00            | 70.00            | 75.00            | 24                    |                        |
| 2 1/2               | 80.00            | 90.00            | 100.00           | 24                    |                        |

Sizes larger than 1 1/4 inches are furnished in the round type.

### Open Turnbuckles

MALLEABLE IRON BODIES  
DROP FORGED STEEL FITTINGS  
GALVANIZED AND SELF COLORED



Fig. 395

| Diameter and Takeup | Eye & Eye Hook & Eye |       | Jaw & Eye |       | Jaw & Jaw |       |
|---------------------|----------------------|-------|-----------|-------|-----------|-------|
|                     | Galv.                | S. C. | Galv.     | S. C. | Galv.     | S. C. |
| 1/4 x 3 3/4         | \$.50                | \$.42 | \$.58     | \$.50 | \$.66     | \$.55 |
| 1/2 x 4 1/4         | .55                  | .45   | .64       | .54   | .72       | .60   |
| 3/4 x 4 3/4         | .72                  | .60   | .84       | .70   | .96       | .80   |
| 1/2 x 6             | .96                  | .80   | 1.10      | .92   | 1.25      | 1.05  |
| 3/8 x 6             | 1.15                 | .95   | 1.30      | 1.10  | 1.50      | 1.25  |

### Petite Brass Turnbuckles

RIGHT AND LEFT HAND THREADS



Fig. 396

| Size No. | Thrd. Diam. Inches | Lgth. Takeup Inches | Overall Lgth. Closed Inches | Inside Diam. Eye Inches | Plain Brass Each |
|----------|--------------------|---------------------|-----------------------------|-------------------------|------------------|
| 1        | 1/8                | 3/8                 | 2 1/8                       | 1 1/8                   | \$.20            |
| 2        | 3/16               | 1/2                 | 3 1/8                       | 1 3/8                   | .25              |
| 3        | 1/4                | 5/8                 | 3 3/8                       | 1 5/8                   | .30              |
| 4        | 5/16               | 3/4                 | 4 1/8                       | 2 1/8                   | .35              |
| 5        | 3/8                | 7/8                 | 4 3/8                       | 2 3/8                   | .40              |

### Swivels

WELDLESS DROP FORGED STEEL



Fig. 622

| Size Inches | Galv. Each | Overall Length Inches | Width Inside Inches | Est. Weight Each in Lbs. | Est. Ult. T. S. Tons |
|-------------|------------|-----------------------|---------------------|--------------------------|----------------------|
| 1/4         | \$.75      | 3 1/4                 | 3/4                 | 3/16                     | 2 1/2                |
| 5/16        | .90        | 4 1/8                 | 1                   | 1/8                      | 4 1/4                |
| 3/8         | 1.00       | 5                     | 1 1/4               | 5/16                     | 5 1/2                |
| 1/2         | 1.50       | 6                     | 1 1/2               | 1 1/4                    | 9 1/2                |
| 5/8         | 2.50       | 7 1/2                 | 1 3/4               | 2 1/4                    | 14 3/4               |
| 3/4         | 3.50       | 9                     | 2                   | 3 1/2                    | 18 1/2               |
| 7/8         | 4.50       | 9 1/2                 | 2 1/4               | 5 3/8                    | 22 3/4               |
| 1           | 5.50       | 11 1/2                | 2 1/2               | 8 3/4                    | 27 1/2               |
| 1 1/4       | 11.00      | 14                    | 3                   | 16                       | 37 1/2               |

Deduct 10% for Self Colored Finish.

### Swivels with Jaw End

DROP FORGED STEEL



Fig. 623

| Size Inches | Galv. Each | Overall Length Inches | Width Between Jaws Inches | Size of Bow in Clear Inches | Est. Wt. Each in Lbs. |
|-------------|------------|-----------------------|---------------------------|-----------------------------|-----------------------|
| 1/4         | \$1.00     | 3 1/4                 | 1/2                       | 3/4 x 3/4                   | 3 1/2                 |
| 5/16        | 1.15       | 4 1/8                 | 1/2                       | 1 x 1                       | 4 1/2                 |
| 3/8         | 1.25       | 4 1/2                 | 3/8                       | 1 1/4 x 1                   | 5 1/2                 |
| 1/2         | 2.00       | 5 3/8                 | 3/4                       | 1 1/2 x 1 1/4               | 11 1/2                |
| 5/8         | 2.80       | 7                     | 1                         | 1 3/4 x 1 1/2               | 17 1/2                |
| 3/4         | 3.90       | 8                     | 1 1/8                     | 2 x 1 3/4                   | 24 1/2                |
| 7/8         | 5.00       | 9                     | 1 1/4                     | 2 1/4 x 2                   | 31 1/2                |
| 1           | 6.00       | 11                    | 1 1/2                     | 2 1/2 x 2 1/2               | 38 1/2                |
| 1 1/4       | 12.00      | 13 1/2                | 1 3/4                     | 3 x 2 3/4                   | 48 1/2                |

Deduct 10% for Self Colored Finish.

Note—Jaw End Swivels have same approximate tensile strength as Swivels, Fig. 622.

### Swivels

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 624

| Size No. | Galvanized Each | Plain Bronze Each | Length Inches | Weight Per 100 in Lbs. |
|----------|-----------------|-------------------|---------------|------------------------|
| 1        | \$.05           | \$.15             | 1 3/4         | 4                      |
| 2        | .09             | .20               | 2 1/8         | 7 1/2                  |
| 3        | .14             | .30               | 2 1/2         | 11 1/4                 |
| 4        | .20             |                   | 3 1/4         | 19 1/2                 |
| 5        | .25             |                   | 3 1/2         | 24 1/2                 |
| 6        | .40             |                   | 4 3/8         | 41                     |



## Screw Eye Bolts

WELDLESS DROP FORGED STEEL  
LARGE EYE



Fig. 500

| Size Inches | Galv. Each | Inside Diam. Eye Inches | Weight Per 100 in Lbs. |
|-------------|------------|-------------------------|------------------------|
| 1/4 x 2     | \$ .10     | 1/2                     | 6                      |
| 1/4 x 2 1/4 | .12        | 5/8                     | 12 3/4                 |
| 3/8 x 2 1/2 | .14        | 3/4                     | 17                     |
| 1/2 x 3 1/4 | .20        | 1                       | 43                     |
| 3/8 x 4     | .35        | 1 1/4                   | 92                     |
| 3/4 x 4 1/2 | .60        | 1 1/2                   | 146                    |
| 7/8 x 5     | .85        | 1 3/4                   | 221                    |
| 1 x 6       | 1.25       | 2                       | 325                    |
| 1 1/4 x 8   | 2.25       | 2 1/2                   | 575                    |

Sizes are: 1st, Diameter Screw.  
2nd, Length under Eye.

## Shoulder Screw Eye Bolts

WELDLESS DROP FORGED STEEL AND BRONZE  
LARGE EYE



Fig. 501

| Size Inches | Galv. Each | Plain Bronze Each | Polished Bronze Each | Inside Diam. Eye Inches | Weight Per 100 in Lbs. |
|-------------|------------|-------------------|----------------------|-------------------------|------------------------|
| 1/4 x 2     | \$ .10     | \$ .45            | \$ .50               | 1/2                     | 4 1/2                  |
| 1/4 x 2 1/4 | .12        | .50               | .60                  | 5/8                     | 9                      |
| 3/8 x 2 1/2 | .14        | .60               | .70                  | 3/4                     | 17                     |
| 1/2 x 3 1/4 | .20        | .90               | 1.00                 | 1                       | 33                     |
| 3/8 x 4     | .35        | 1.35              | 1.50                 | 1 1/4                   | 70                     |
| 3/4 x 4 1/2 | .60        |                   |                      | 1 1/2                   | 117                    |
| 7/8 x 5     | .85        |                   |                      | 1 3/4                   | 194                    |
| 1 x 6       | 1.25       |                   |                      | 2                       | 288                    |
| 1 1/4 x 8   | 2.25       |                   |                      | 2 1/2                   | 500                    |

Sizes are: 1st, Diameter Screw.  
2nd, Length under Shoulder.

## Nut Eye Bolts

DROP FORGED STEEL—LARGE EYE



Without Shoulder—Fig. 522  
REGULAR

| Size Inches | Galv. Each | Plain Bronze Each | Polished Bronze Each |
|-------------|------------|-------------------|----------------------|
| 1/4 x 2     | \$ .14     | \$ .45            | \$ .50               |
| 1/4 x 2 1/4 | .16        | .50               | .60                  |
| 3/8 x 2 1/2 | .18        | .60               | .70                  |
| 1/2 x 3 1/4 | .25        | .90               | 1.00                 |
| 3/8 x 4     | .45        | 1.35              | 1.50                 |
| 3/4 x 4 1/2 | .70        |                   |                      |
| 7/8 x 5     | 1.00       |                   |                      |
| 1 x 6       | 1.50       |                   |                      |
| 1 1/4 x 8   | 2.50       |                   |                      |



With Shoulder—Fig. 523  
EXTRA LONG

| Size Inches | Galv. Each | Plain Bronze Each | Polished Bronze Each | Inside Diam. Eye Inches | Regular Weight Per 100 in Lbs. | Extra Long Weight Per 100 in Lbs. |
|-------------|------------|-------------------|----------------------|-------------------------|--------------------------------|-----------------------------------|
| 1/4 x 4     | \$ .20     | \$ .55            | \$ .60               | 1/2                     | 7                              | 10                                |
| 1/4 x 4 1/4 | .24        | .65               | .75                  | 5/8                     | 11                             | 16                                |
| 3/8 x 4 1/2 | .28        | .75               | .85                  | 3/4                     | 20                             | 27                                |
| 1/2 x 6     | .40        | 1.15              | 1.25                 | 1                       | 44                             | 56                                |
| 3/8 x 6     | .60        | 1.60              | 1.75                 | 1 1/4                   | 86                             | 104                               |
| 3/4 x 6     | .95        |                   |                      | 1 1/2                   | 124                            | 150                               |
| 7/8 x 8     | 1.35       |                   |                      | 1 3/4                   | 270                            | 323                               |
| 1 x 9       | 1.90       |                   |                      | 2                       | 329                            | 398                               |
| 1 1/4 x 11  | 3.25       |                   |                      | 2 1/2                   | 688                            | 835                               |

### ADDITIONAL LENGTHS—GALVANIZED

| Length of Shank Inches | Diameter of Bolts |        |        |        |        |        |         |         |
|------------------------|-------------------|--------|--------|--------|--------|--------|---------|---------|
|                        | 1/4               | 5/8    | 3/8    | 1/2    | 5/8    | 3/4    | 7/8     | 1       |
| 3                      | \$ .20            | \$ .24 | \$ .28 |        |        |        |         |         |
| 4                      | .20               | .24    | .28    | \$ .40 |        |        |         |         |
| 5                      | .21               | .25    | .30    | .40    | \$ .60 |        |         |         |
| 6                      | .22               | .26    | .32    | .40    | .60    | \$ .95 |         |         |
| 7                      |                   |        | .34    | .42    | .63    | .99    | \$ 1.35 |         |
| 8                      |                   |        |        | .44    | .66    | 1.03   | 1.35    | \$ 1.90 |
| 10                     |                   |        |        | .48    | .72    | 1.11   | 1.45    | 1.96    |
| 12                     |                   |        |        |        | .78    | 1.19   | 1.55    | 2.08    |
| 15                     |                   |        |        |        | .87    | 1.31   | 1.70    | 2.26    |
| 18                     |                   |        |        |        | .96    | 1.43   | 1.85    | 2.44    |
| 20                     |                   |        |        |        |        | 1.51   | 1.95    | 2.56    |

DEDUCT 5% FOR SELF COLORED FINISH—ALL BRONZE BOLTS FURNISHED ONLY WITH SHOULDER.

If bolts are ordered with shank lengths other than catalogue listed dimensions, the price for the next longer listed length will apply, plus a \$2.00 charge per diameter for machine set-up.

Bolts with shanks longer than listed lengths can be supplied in all diameters and styles. Prices on application.



### Screw Ring Bolts

DROP FORGED STEEL



Fig. 618

### Shoulder Screw Ring Bolts

DROP FORGED STEEL AND CAST BRONZE

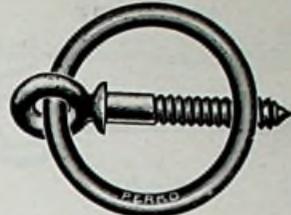


Fig. 619

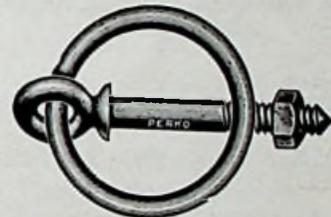
| Size Inches  | Galv. Each | I. D. Ring Inches | Weight Per 100 in Lbs. | Size Inches  | Galv. Each | Plain Bronze Each | Polished Bronze Each | Weight Per 100 in Lbs. |
|--------------|------------|-------------------|------------------------|--------------|------------|-------------------|----------------------|------------------------|
| 1/4 x 2      | \$ .25     | 1 3/4             | 14                     | 1/4 x 2      | \$ .25     | \$ .65            | \$1.00               | 14                     |
| 5/16 x 2 1/4 | .30        | 2                 | 25                     | 5/16 x 2 1/4 | .30        | .75               | 1.15                 | 24                     |
| 3/8 x 2 1/2  | .35        | 2                 | 40                     | 3/8 x 2 1/2  | .35        | .90               | 1.30                 | 39                     |
| 1/2 x 3 1/4  | .50        | 2 1/2             | 90                     | 1/2 x 3 1/4  | .50        | 1.75              | 2.25                 | 82                     |
| 5/8 x 4      | .85        | 2 3/4             | 167                    | 5/8 x 4      | .85        | 2.85              | 3.50                 | 154                    |
| 3/4 x 4 1/2  | 1.35       | 3                 | 254                    | 3/4 x 4 1/2  | 1.35       |                   |                      | 256                    |
| 7/8 x 5      | 2.00       | 3 1/4             | 408                    | 7/8 x 5      | 2.00       |                   |                      | 380                    |
| 1 x 6        | 2.90       | 3 3/4             | 596                    | 1 x 6        | 2.90       |                   |                      | 550                    |
| 1 1/4 x 8    | 5.75       | 5                 | 1125                   | 1 1/4 x 8    | 5.75       |                   |                      | 1100                   |

### Nut Ring Bolts

DROP FORGED STEEL AND CAST BRONZE



Without Shoulder—Fig. 620



With Shoulder—Fig. 621

| REGULAR      |            |                   |                      | EXTRA LONG   |            | Diam. Stock Inside Diam. Rings Inches | Regular Weight Per 100 in Lbs. | Extra Long Weight Per 100 in Lbs. |
|--------------|------------|-------------------|----------------------|--------------|------------|---------------------------------------|--------------------------------|-----------------------------------|
| Size Inches  | Galv. Each | Plain Bronze Each | Polished Bronze Each | Size Inches  | Galv. Each |                                       |                                |                                   |
| 1/4 x 2      | \$ .30     | \$ .65            | \$1.00               | 1/4 x 4      | \$ .35     | 1/4 x 1 3/4                           | 15                             | 18                                |
| 5/16 x 2 1/4 | .35        | .75               | 1.15                 | 5/16 x 4 1/4 | .40        | 5/16 x 2                              | 27                             | 32                                |
| 3/8 x 2 1/2  | .40        | .90               | 1.30                 | 3/8 x 4 1/2  | .50        | 3/8 x 2                               | 44                             | 51                                |
| 1/2 x 3 1/4  | .55        | 1.75              | 2.25                 | 1/2 x 6      | .70        | 1/2 x 2 1/2                           | 97                             | 109                               |
| 5/8 x 4      | .85        | 2.85              | 3.50                 | 5/8 x 6      | 1.00       | 5/8 x 2 3/4                           | 178                            | 196                               |
| 3/4 x 4 1/2  | 1.35       |                   |                      | 3/4 x 6      | 1.60       | 3/4 x 3                               | 271                            | 297                               |
| 7/8 x 5      | 2.00       |                   |                      | 7/8 x 8      | 2.35       | 7/8 x 3 1/4                           | 491                            | 544                               |
| 1 x 6        | 2.90       |                   |                      | 1 x 9        | 3.30       | 1 x 3 3/4                             | 659                            | 728                               |
| 1 1/4 x 8    | 5.75       |                   |                      | 1 1/4 x 11   | 6.50       | 1 1/4 x 5                             | 1375                           | 1522                              |

### ADDITIONAL LENGTHS—GALVANIZED

| Length of Shank Inches | Diameter of Bolts |        |        |        |        |        |        |        |
|------------------------|-------------------|--------|--------|--------|--------|--------|--------|--------|
|                        | 1/4               | 5/16   | 3/8    | 1/2    | 5/8    | 3/4    | 7/8    | 1      |
| 3                      | \$ .35            | \$ .40 | \$ .50 |        |        |        |        |        |
| 4                      | .35               | .40    | .50    | \$ .70 |        |        |        |        |
| 5                      | .36               | .41    | .52    | .70    | \$1.00 |        |        |        |
| 6                      | .37               | .42    | .54    | .70    | 1.00   | \$1.60 |        |        |
| 7                      |                   |        | .56    | .72    | 1.03   | 1.64   |        |        |
| 8                      |                   |        | .58    | .74    | 1.06   | 1.68   | \$2.35 |        |
| 10                     |                   |        |        | .78    | 1.12   | 1.76   | 2.45   | \$3.36 |
| 12                     |                   |        |        |        | 1.18   | 1.84   | 2.55   | 3.48   |

DEDUCT 5% FOR SELF COLORED FINISH—ALL BRONZE BOLTS FURNISHED ONLY WITH SHOULDER

If bolts are ordered with shank lengths other than catalogue listed dimensions, the price for the next longer listed length will apply, plus a \$2.00 charge per diameter for machine set-up.

Bolts with shanks longer than listed lengths can be supplied in all diameters and styles. Prices on application.

## Rivet Eye Bolts

WELDLESS DROP FORGED STEEL  
LARGE EYE



Fig. 914

| Size Inches  | Galv. Each | Inside Diam. Eye Inches | Weight Per 100 in Lbs. |
|--------------|------------|-------------------------|------------------------|
| 1/4 x 4      | \$ .14     | 1/2                     | 9 3/4                  |
| 5/16 x 4 1/4 | .16        | 5/8                     | 15 1/4                 |
| 3/8 x 4 1/2  | .18        | 3/4                     | 25                     |
| 1/2 x 6      | .25        | 1                       | 61                     |
| 5/8 x 6      | .45        | 1 1/4                   | 95                     |
| 3/4 x 6      | .70        | 1 1/2                   | 145                    |
| 7/8 x 8      | 1.00       | 1 3/4                   | 255                    |
| 1 x 9        | 1.50       | 2                       | 370                    |
| 1 1/4 x 11   | 2.50       | 2 1/2                   | 709                    |

Sizes are 1st, diameter shank; 2nd, length under eye.

## Shoulder Rivet Eye Bolts

WELDLESS DROP FORGED STEEL  
LARGE EYE



Fig. 916

| Size Inches  | Galv. Each | Inside Diam. Eye Inches | Weight Per 100 in Lbs. |
|--------------|------------|-------------------------|------------------------|
| 1/4 x 4      | \$ .14     | 1/2                     | 10 1/2                 |
| 5/16 x 4 1/4 | .16        | 5/8                     | 16 1/2                 |
| 3/8 x 4 1/2  | .18        | 3/4                     | 25                     |
| 1/2 x 6      | .25        | 1                       | 68 1/2                 |
| 5/8 x 6      | .45        | 1 1/4                   | 95                     |
| 3/4 x 6      | .70        | 1 1/2                   | 165                    |
| 7/8 x 8      | 1.00       | 1 3/4                   | 231                    |
| 1 x 9        | 1.50       | 2                       | 380                    |
| 1 1/4 x 11   | 2.50       | 2 1/2                   | 750                    |

Sizes are 1st, diameter shank; 2nd, length under shoulder.

## Rivet Ring Bolts

WELDLESS DROP FORGED STEEL

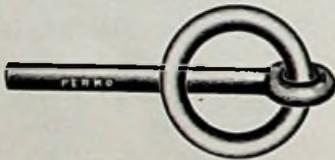


Fig. 915

| Size Inches  | Galv. Each | Inside Diam. Ring Inches | Weight Per 100 in Lbs. |
|--------------|------------|--------------------------|------------------------|
| 1/4 x 4      | \$ .30     | 1 3/4                    | 19                     |
| 5/16 x 4 1/4 | .35        | 2                        | 31                     |
| 3/8 x 4 1/2  | .40        | 2                        | 45                     |
| 1/2 x 6      | .55        | 2 1/2                    | 113                    |
| 5/8 x 6      | .85        | 2 3/4                    | 183                    |
| 3/4 x 6      | 1.35       | 3                        | 279                    |
| 7/8 x 8      | 2.00       | 3 1/4                    | 432                    |
| 1 x 9        | 2.90       | 3 3/4                    | 645                    |
| 1 1/4 x 11   | 5.75       | 5                        | 1331                   |

Sizes are 1st, diameter shank; 2nd, length under eye.

## Shoulder Rivet Ring Bolts

WELDLESS DROP FORGED STEEL

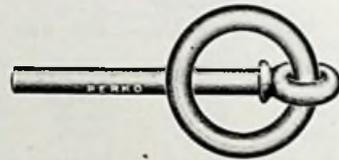


Fig. 917

| Size Inches  | Galv. Each | Inside Diam. Ring Inches | Weight Per 100 in Lbs. |
|--------------|------------|--------------------------|------------------------|
| 1/4 x 4      | \$ .30     | 1 3/4                    | 19                     |
| 5/16 x 4 1/4 | .35        | 2                        | 32                     |
| 3/8 x 4 1/2  | .40        | 2                        | 47 1/2                 |
| 1/2 x 6      | .55        | 2 1/2                    | 113                    |
| 5/8 x 6      | .85        | 2 3/4                    | 200                    |
| 3/4 x 6      | 1.35       | 3                        | 293                    |
| 7/8 x 8      | 2.00       | 3 1/4                    | 462                    |
| 1 x 9        | 2.90       | 3 3/4                    | 670                    |
| 1 1/4 x 11   | 5.75       | 5                        | 1375                   |

Sizes are 1st, diameter shank; 2nd, length under shoulder.

**DEDUCT 5% FOR SELF COLORED FINISH**

If bolts are ordered with shank lengths other than catalogue listed dimensions, the price for the next longer listed length will apply, plus a \$2.00 charge per diameter for machine set-up.

Bolts with shanks longer than listed lengths can be supplied in all diameters and styles. Prices on application.





**Boat Scrapers**  
TRIANGULAR



|                              |                             |                              |                       |  |
|------------------------------|-----------------------------|------------------------------|-----------------------|--|
| Size<br>Blade<br>Inches<br>2 | Fig. 625                    |                              | Length<br>Inches<br>6 | Wt. Per<br>Dozen<br>in Pounds<br>2 1/2 |
|                              | Blades<br>Only<br>Per Dozen | Handles<br>Only<br>Per Dozen |                       |  |
|                              | Per<br>Dozen<br>\$6.60      | \$3.00                       |                       |  |

**Yacht Scrapers**



|                                  |                             |                              |                           |                                    |
|----------------------------------|-----------------------------|------------------------------|---------------------------|------------------------------------|
| Size<br>Blade<br>Inches<br>2 3/4 | Fig. 626                    |                              | Length<br>Inches<br>9 1/2 | Wt. Per<br>Dozen<br>in Pounds<br>5 |
|                                  | Blades<br>Only<br>Per Dozen | Handles<br>Only<br>Per Dozen |                           |                                    |
|                                  | Per<br>Dozen<br>\$10.80     | \$3.60                       |                           |                                    |

**Oval Boat Scrapers**



|                                      |                             |                              |                       |  |
|--------------------------------------|-----------------------------|------------------------------|-----------------------|--|
| Size<br>Blade<br>Inches<br>2 x 1 1/4 | Fig. 918                    |                              | Length<br>Inches<br>6 | Wt. Per<br>Dozen<br>in Pounds<br>2 3/4 |
|                                      | Blades<br>Only<br>Per Dozen | Handles<br>Only<br>Per Dozen |                       |  |
|                                      | Per<br>Dozen<br>\$6.60      | \$3.00                       |                       |  |

**Tree Scrapers**



|                                    |                        |                         |                        |                                   |
|------------------------------------|------------------------|-------------------------|------------------------|-----------------------------------|
| Size<br>Blade<br>Inches<br>4 x 1/8 | Fig. 919               |                         | Length<br>Inches<br>17 | Weight<br>Each<br>Pounds<br>1 1/4 |
|                                    | Blades<br>Only<br>Each | Handles<br>Only<br>Each |                        |                                   |
|                                    | Each<br>\$1.70         | \$ .75                  | \$1.00                 |                                   |

**Ship Scrapers**  
TEMPERED STEEL BLADES



|     |                         |                        |                         |                  |
|-----|-------------------------|------------------------|-------------------------|------------------|
| No. | Size<br>Blade<br>Inches | Fig. 920               |                         | Length<br>Inches |
|     |                         | Blades<br>Only<br>Each | Handles<br>Only<br>Each |                  |
| 1   | 4 1/2 x 1/4             | \$1.75                 | \$ .80                  | 17               |
| 2   | 4 1/2 x 1/8             | 1.70                   | .75                     | 17               |

**Caulking Irons**  
MALLEABLE IRON



|             |              |                     |                  |                          |                               |
|-------------|--------------|---------------------|------------------|--------------------------|-------------------------------|
| Size<br>No. | Per<br>Dozen | Thickness<br>Inches | Length<br>Inches | Width<br>Blade<br>Inches | Weight<br>Per Doz.<br>in Lbs. |
|             |              |                     |                  |                          |                               |
| 00          | \$7.00       | 1/32                | 5                | 2                        | 3 1/2                         |
| 0           | 7.00         | 1/16                | 5 1/2            | 2 1/2                    | 4 1/2                         |
| 1           | 7.25         | 1/8                 | 5 3/4            | 2 1/4                    | 5 1/4                         |

**Marlin Spikes**  
POLISHED STEEL  
FOR WIRE ROPE



|                  |           |  |  |
|------------------|-----------|--|--|
| Length<br>Inches | Fig. 921  |  | Approx. Weight<br>Per Dozen<br>in Pounds |
|                  | Per Dozen |  |  |
| 8                | \$20.50   |  | 6  |
| 12               | 32.00     |  | 12 3/4                                   |
| 14               | 37.00     |  | 16 1/2                                   |
| 16               | 43.00     |  | 25                                       |
| 18               | 49.00     |  | 30                                       |

FOR MANILA ROPE



|                  |           |  |  |
|------------------|-----------|--|--|
| Length<br>Inches | Fig. 922  |  | Approx. Weight<br>Per Dozen<br>in Pounds |
|                  | Per Dozen |  |  |
| 8                | \$ 9.25   |  | 7 1/2                                    |
| 10               | 10.50     |  | 12                                       |
| 12               | 12.00     |  | 17                                       |
| 14               | 16.00     |  | 23 1/2                                   |
| 16               | 19.50     |  | 27                                       |
| 18               | 23.50     |  | 34 1/8                                   |

**Hand Fids**



Fig. 923

HICKORY OR MAPLE

For use in splicing ropes and light flexible cables; has a rounded end for hand use; varnished finish.

|     |              |                |
|-----|--------------|----------------|
| No. | Per<br>Dozen | Size<br>Inches |
|     |              |                |
| 0   | \$ 4.95      | 12 x 1 3/4     |
| 1   | 5.94         | 14 x 1 3/4     |
| 2   | 6.60         | 16 x 2         |
| 3   | 7.43         | 18 x 2         |
| 4   | 14.85        | 20 x 2 1/4     |
| 5   | 19.70        | 24 x 3         |

**Caulking Mallets**

LOCUST HANDLES

Mallet Head, 15 inches long; 1 1/8 inches diameter.

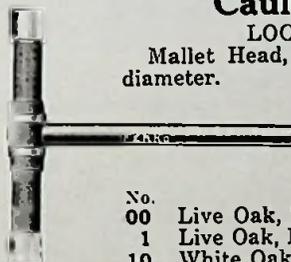


Fig. 924

|     |                                       |
|-----|---------------------------------------|
| No. | Each                                  |
| 00  | Live Oak, Tempered Steel Rings \$4.00 |
| 1   | Live Oak, Polished Steel Rings 3.50   |
| 10  | White Oak, Varnished Iron Rings 2.50  |

**Caulking Irons**  
DROP FORGED STEEL



|     |              |                     |                  |                 |
|-----|--------------|---------------------|------------------|-----------------|
| No. | Per<br>Dozen | Fig. 925            |                  | Width<br>Inches |
|     |              | Thickness<br>Inches | Length<br>Inches |                 |
| 0   | \$11.50      | 1/8                 | 5 3/8            | 2 1/2           |
| 1   | 12.00        | 1/8                 | 6 3/8            | 2 1/2           |

**Machine Bolts**  
HOT FORGED BRONZE  
HEX HEAD—HEX NUT

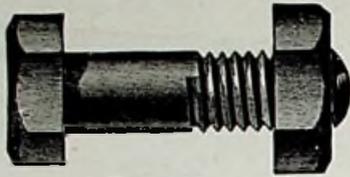


Fig. 726

PRICE PER HUNDRED

| Length Under Head | Diameter of Bolts |          |          |          |          |         |         |
|-------------------|-------------------|----------|----------|----------|----------|---------|---------|
|                   | 1/4"              | 5/16"    | 3/8"     | 7/16"    | 1/2"     | 5/8"    | 3/4"    |
| 1"                | \$12.50*          | \$14.50* | \$16.25* | —        | —        | —       | —       |
| 1 1/2"            | 12.50*            | 14.50*   | 16.65*   | —        | \$21.90* | \$31.50 | —       |
| 1 3/4"            | 12.75             | 14.90    | 17.05    | —        | 22.50    | 32.90   | —       |
| 2"                | 13.00*            | 15.30*   | 17.45*   | \$20.50* | 23.10*   | 33.80   | \$49.00 |
| 2 1/4"            | 13.25             | 15.70    | 17.85    | 21.00    | 23.70    | 34.80   | —       |
| 2 1/2"            | 13.50*            | 16.10*   | 18.25*   | 21.50*   | 24.30*   | 35.80   | 51.85   |
| 2 3/4"            | 13.75             | 16.50    | 18.65    | 22.00    | 24.90    | 36.80   | —       |
| 3"                | 14.00*            | 16.90*   | 19.05*   | 22.50*   | 25.50*   | 37.80*  | 54.70   |
| 3 1/4"            | 14.25             | 17.30    | 19.45    | 23.00    | 26.10    | 38.80   | —       |
| 3 1/2"            | 14.50*            | 17.70*   | 19.85*   | 23.50*   | 26.70*   | 39.80   | 57.55   |
| 3 3/4"            | 14.75             | 18.10    | 20.25    | 24.00    | 27.30    | 40.80   | —       |
| 4"                | 15.00*            | 18.50*   | 20.65*   | 24.50*   | 27.90*   | 41.80*  | 60.40   |
| 4 1/4"            | 15.50             | 19.30*   | 21.45*   | 25.30*   | 29.10*   | 43.80   | 63.25   |
| 4 1/2"            | 16.00*            | 20.10*   | 22.25*   | 26.50*   | 30.30*   | 45.80*  | 66.10   |
| 5"                | 16.50             | 20.90*   | 23.05*   | 27.50    | 31.50*   | 47.80   | 68.95   |
| 5 1/2"            | 17.00             | 21.70*   | 23.85*   | 28.50*   | 32.70*   | 49.80*  | 71.80   |
| 6"                | 18.00             | 23.30    | 25.45    | 30.50    | 35.10    | 53.80   | 77.60   |
| 7"                | 19.00             | 24.90    | 27.05    | 32.50    | 37.50*   | 57.80*  | 83.20   |
| 8"                | 20.00             | 26.50    | 28.65    | 34.50    | 39.90    | 61.80   | 88.90   |
| 10"               | 21.00             | 28.10    | 30.25    | 36.50    | 42.30    | 65.80   | 94.60   |

Larger Sizes — Price on application.

\* STAR ALONGSIDE PRICE INDICATES SIZE CARRIED IN STOCK

**Lag Screws**  
HOT FORGED BRONZE  
SQUARE HEAD—GIMLET POINT

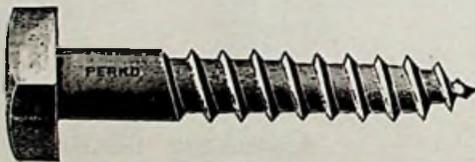


Fig. 727

PRICE PER HUNDRED

| Length Under Head | Diameter of Screw |          |          |          |          |         |         |
|-------------------|-------------------|----------|----------|----------|----------|---------|---------|
|                   | 1/4"              | 5/16"    | 3/8"     | 7/16"    | 1/2"     | 5/8"    | 3/4"    |
| 1 1/2"            | \$11.00*          | \$12.00* | \$12.90* | —        | —        | —       | —       |
| 2"                | 11.50*            | 12.50*   | 13.25*   | \$16.20* | \$17.75* | \$26.00 | \$38.50 |
| 2 1/2"            | 12.00*            | 13.15*   | 14.20*   | 17.05*   | 18.85*   | 28.00   | 40.75   |
| 3"                | 12.50*            | 13.80*   | 15.00*   | 17.90*   | 20.00*   | 30.00*  | 43.00   |
| 3 1/4"            | 13.00*            | 14.45*   | 15.80*   | 18.75*   | 21.20*   | 32.00   | 45.85   |
| 4"                | 13.50*            | 15.10*   | 16.60*   | 19.60*   | 22.40*   | 34.00*  | 48.70   |
| 4 1/2"            | 14.00             | 15.75*   | 17.40*   | 20.50*   | 23.60*   | 36.00   | 51.55   |
| 5"                | 14.50*            | 16.40*   | 18.20*   | 21.50*   | 24.80*   | 38.00*  | 54.40   |
| 5 1/2"            | 15.00             | 17.05    | 19.00*   | 22.50*   | 26.10*   | 40.00   | 57.25   |
| 6"                | 15.50*            | 17.70*   | 19.80*   | 23.50*   | 27.40*   | 42.00*  | 60.10   |
| 7"                | 16.50             | 19.00    | 21.40*   | 25.50*   | 30.00*   | 46.00*  | 65.85   |
| 8"                | 17.50             | 20.30    | 23.00*   | 27.50*   | 32.60*   | 50.00*  | 71.55   |
| 9"                | 18.50             | 21.60    | 24.60    | 29.50    | 35.20    | 54.00   | 77.25   |
| 10"               | 19.50             | 22.90    | 26.20*   | 31.50    | 37.80*   | 58.00*  | 82.95   |
| 11"               | 20.50             | 24.20    | 27.80    | 33.50    | 40.40    | 62.00   | 88.65   |
| 12"               | 21.50             | 25.50    | 29.40    | 35.50    | 43.00    | 66.00   | 94.35   |

Larger Sizes — Price on application.

\* STAR ALONGSIDE PRICE INDICATES SIZE CARRIED IN STOCK

**Carriage Bolts**  
HOT FORGED BRONZE  
ROUND HEAD—HEX NUT

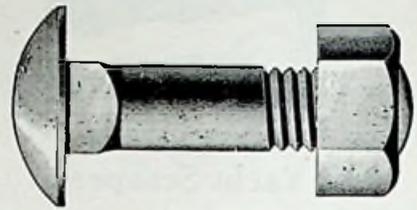


Fig. 728

PRICE PER HUNDRED

| Length Under Head | Diameter of Bolts |          |         |         |          |         |
|-------------------|-------------------|----------|---------|---------|----------|---------|
|                   | 1/4"              | 5/16"    | 3/8"    | 7/16"   | 1/2"     | 5/8"    |
| 1 1/2"            | \$12.00*          | \$14.50* | \$16.00 | \$20.00 | —        | —       |
| 2"                | 12.50*            | 15.30*   | 16.80*  | 21.00*  | \$23.00* | —       |
| 2 1/2"            | 13.00*            | 16.10*   | 17.60*  | 22.00   | 24.30*   | \$42.50 |
| 3"                | 13.50*            | 16.90*   | 18.40*  | 23.00*  | 25.60*   | 44.50*  |
| 3 1/2"            | 14.00*            | 17.20*   | 19.20*  | 24.00   | 26.90*   | 46.50*  |
| 4"                | 14.50*            | 18.00*   | 20.00*  | 25.00*  | 28.20*   | 48.50*  |
| 4 1/2"            | 15.00*            | 18.80*   | 21.80*  | 26.00   | 29.50*   | 50.50*  |
| 5"                | 15.50*            | 19.60*   | 22.60*  | 27.00*  | 30.80*   | 52.50*  |
| 5 1/2"            | 16.00*            | 20.40*   | 23.40*  | 28.00   | 32.10*   | 54.50*  |
| 6"                | 16.50*            | 21.20*   | 24.20*  | 29.00*  | 33.40*   | 56.50*  |
| 7"                | 18.00             | 23.20*   | 26.20*  | 31.50   | 36.40*   | 61.50   |
| 8"                | 19.50             | 25.20*   | 28.20*  | 34.00   | 39.40*   | 66.50*  |
| 9"                | 21.00             | 27.20    | 30.20   | 36.50   | 42.40    | 71.50   |
| 10"               | 22.50             | 29.20    | 32.20*  | 39.00   | 45.40*   | 76.50*  |

Larger Sizes — Price on application.

\* STAR ALONGSIDE PRICES INDICATES SIZE CARRIED IN STOCK

**Hanger Bolts**  
HOT FORGED BRONZE  
HEX NUT—GIMLET POINT

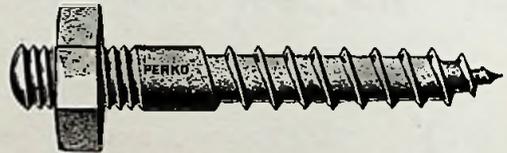


Fig. 729

PRICE PER HUNDRED

| Length Over All | Diameter of Screws |          |          |          |          |         |
|-----------------|--------------------|----------|----------|----------|----------|---------|
|                 | 1/4" & 5/16"       | 3/8"     | 7/16"    | 1/2"     | 5/8"     | 3/4"    |
| 2"              | \$16.00*           | —        | —        | —        | —        | —       |
| 2 1/4"          | 16.50*             | \$17.00* | —        | \$23.20* | —        | —       |
| 3"              | 17.00*             | 17.00*   | \$20.00* | 24.40*   | \$32.00* | \$44.00 |
| 3 1/2"          | 17.80*             | 17.80*   | 21.00*   | 24.40*   | 34.00    | 46.85   |
| 4"              | 18.60*             | 18.60*   | 22.00*   | 25.60*   | 36.00*   | 49.70   |
| 5"              | —                  | 20.20*   | 24.00*   | 28.00*   | 40.00*   | 56.40   |
| 6"              | —                  | 21.80*   | 26.00*   | 30.40*   | 44.00*   | 62.20   |
| 7"              | —                  | 23.40*   | 28.00*   | 32.80*   | 48.00*   | 67.70   |
| 8"              | —                  | 25.00*   | 30.00    | 35.20*   | 52.00*   | 73.40   |
| 9"              | —                  | 26.60    | 32.00    | 37.60    | 56.00    | 79.10   |
| 10"             | —                  | 28.20*   | 34.00    | 40.00*   | 60.00*   | 84.80   |
| 11"             | —                  | 29.80    | 36.00    | 42.40    | 64.00    | 90.50   |
| 12"             | —                  | 31.40    | 38.00    | 44.80    | 68.00    | 96.20   |

Larger Sizes — Price on application.

\* STAR ALONGSIDE PRICES INDICATES SIZE CARRIED IN STOCK



### Machine Bolts

HOT GALVANIZED AND PLAIN



Fig. 1078

Cut Thread—Square Head and Square Nut

PRICE PER 100 PIECES

| Length in In. | Diameter in Inches |         |         |         |           |         |
|---------------|--------------------|---------|---------|---------|-----------|---------|
|               | 3/16 & 1/4         | 5/16    | 3/8     | 1/2     | 5/8 & 3/4 |         |
| 1             | \$1.10             | \$ 1.70 | \$ 2.25 | \$ 3.95 | \$ 4.60   | \$ 8.10 |
| 1 1/4         | 1.15*              | 1.75*   | 2.35*   | 4.10    | 4.80      | 8.35    |
| 1 1/2         | 1.30*              | 1.95*   | 2.60*   | 4.25    | 5.00*     | 8.60    |
| 1 3/4         | 1.50*              | 2.20*   | 2.90*   | 4.55*   | 5.35*     | 9.10*   |
| 2             | 1.70*              | 2.45*   | 3.20*   | 4.85*   | 5.75*     | 9.60*   |
| 2 1/2         | 1.85*              | 2.70*   | 3.50*   | 5.20*   | 6.15*     | 10.10*  |
| 3             | 2.05*              | 2.95*   | 3.80*   | 5.50*   | 6.50*     | 10.00*  |
| 3 1/2         | 2.50*              | 3.15*   | 4.10*   | 5.85*   | 6.85*     | 11.10*  |
| 4             | 2.65*              | 3.60*   | 4.40*   | 6.15*   | 7.25*     | 11.60*  |
| 4 1/2         | 2.80*              | 3.80*   | 4.80*   | 6.50*   | 7.65*     | 12.10*  |
| 5             | 2.95*              | 4.00*   | 5.10*   | 6.85*   | 8.05*     | 12.60   |
| 5 1/2         | 3.10*              | 4.20*   | 5.40*   | 7.15*   | 8.45*     | 13.10*  |
| 6             | 3.80*              | 5.10*   | 6.30*   | 10.15   | 13.60     |         |
| 6 1/2         | 4.00*              | 5.35*   | 6.85*   | 9.65    | 14.10*    |         |
| 7             | 4.15*              | 5.55*   | 7.15*   | 10.10   | 14.60     |         |
| 7 1/2         | 4.35*              | 5.80*   | 7.50*   | 10.55*  | 15.10*    |         |
| 8             | 4.50               | 6.00    | 7.80*   | 11.00   | 15.60     |         |
| 8 1/2         | 4.70               | 6.25    | 8.15*   | 11.45   | 16.10*    |         |
| 9             | 4.85               | 6.45    | 8.45    | 11.95   | 16.60     |         |
| 9 1/2         | 5.05               | 6.70    | 8.80*   | 12.35   | 17.10*    |         |
| 10            | 5.40               | 7.15    | 9.56    | 13.20   | 17.80     |         |
| 11            | 5.75               | 7.60    | 10.20*  | 14.05   | 18.50*    |         |
| 12            | 6.30               | 8.25    | 11.30   | 15.35   | 19.10*    |         |
| 13            | 6.60               | 8.70    | 11.95   | 16.20   | 19.70*    |         |
| 14            | 6.95               | 9.15    | 12.60   | 17.15   | 20.30     |         |
| 15            | 7.25               | 9.60    | 13.25   | 18.05   | 20.90*    |         |
| 16            | 7.60               | 10.05   | 13.90   | 18.95   | 21.50     |         |
| 17            | 7.90               | 10.50   | 14.55   | 19.85   | 22.10*    |         |
| 18            | 8.25               | 10.95   | 15.20   | 20.75   | 22.70*    |         |
| 19            | 8.60               | 11.40   | 15.85   | 21.65   | 23.30*    |         |
| 20            |                    |         |         |         | 23.90*    |         |
| 21            |                    |         |         |         | 24.50*    |         |
| 22            |                    |         |         |         | 25.10*    |         |
| 23            |                    |         |         |         | 25.70*    |         |
| 24            |                    |         |         |         | 26.30     |         |

### Carriage Bolts

HOT GALVANIZED AND PLAIN

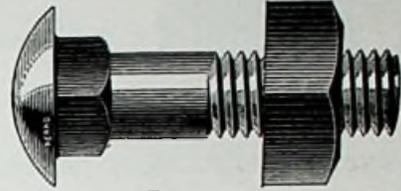


Fig. 1079

Cut Thread—Square Nut

PRICE PER 100 PIECES

| Length in Inches | Diameter in Inches |         |         |         |             |         |
|------------------|--------------------|---------|---------|---------|-------------|---------|
|                  | 3/8 and 1/2        | 5/8     | 3/4     | 7/8     | 1 and 1 1/8 | 1 1/4   |
| 1                | \$1.05             | \$ 1.60 | \$ 2.00 |         |             |         |
| 1 1/4            | 1.10*              | 1.65*   | 2.10*   | \$ 3.50 | \$ 4.25*    |         |
| 1 1/2            | 1.15*              | 1.70*   | 2.20*   | 3.60    | 4.40        | \$ 8.35 |
| 1 3/4            | 1.20*              | 1.80*   | 2.35*   | 3.75    | 4.60*       |         |
| 2                | 1.35*              | 2.00*   | 2.60*   | 4.05*   | 4.95*       | 9.10    |
| 2 1/2            | 1.55*              | 2.25*   | 2.90*   | 4.40*   | 5.35*       | 9.00    |
| 3                | 1.70*              | 2.50*   | 3.20*   | 4.75*   | 5.75*       | 10.10*  |
| 3 1/2            | 1.85*              | 2.75*   | 3.50*   | 5.10*   | 6.15*       | 10.60*  |
| 4                | 2.30*              | 2.95*   | 3.80*   | 5.40*   | 6.55*       | 11.10*  |
| 4 1/2            | 2.45*              | 3.40*   | 4.10*   | 5.75*   | 6.95*       | 11.60*  |
| 5                | 2.60*              | 3.60*   | 4.50*   | 6.10*   | 7.35*       | 12.10*  |
| 5 1/2            | 2.75*              | 3.85*   | 4.80*   | 6.45*   | 7.80*       | 12.60*  |
| 6                | 2.90*              | 4.05*   | 5.10*   | 6.80*   | 8.25*       | 13.10*  |
| 6 1/2            | 3.05*              | 4.30*   | 5.40*   | 7.15*   | 8.70*       | 13.60   |
| 7                | 3.20*              | 4.55*   | 5.70*   | 7.50*   | 9.15*       | 14.10*  |
| 7 1/2            | 3.35*              | 4.80*   | 6.00*   | 7.85*   | 9.60*       | 14.60   |
| 8                | 3.50*              | 5.05*   | 6.30*   | 8.20*   | 10.05*      | 15.10*  |
| 8 1/2            | 3.65*              | 5.30*   | 6.60*   | 8.55*   | 10.50*      | 15.60   |
| 9                | 3.80*              | 5.55*   | 6.90*   | 8.90*   | 10.95*      | 16.10*  |
| 9 1/2            | 3.95*              | 5.80*   | 7.20*   | 9.25*   | 11.40*      | 16.60   |
| 10               | 4.10*              | 6.05*   | 7.50*   | 9.60*   | 11.85*      | 17.10*  |
| 11               | 4.25*              | 6.30*   | 7.80*   | 9.95*   | 12.30*      | 17.60   |
| 12               | 4.40*              | 6.55*   | 8.10*   | 10.30*  | 12.75*      | 18.10*  |
| 13               | 4.55*              | 6.80*   | 8.40*   | 10.65*  | 13.20*      | 18.60   |
| 14               | 4.70*              | 7.05*   | 8.70*   | 11.00*  | 13.65*      | 19.10*  |
| 15               | 4.85*              | 7.30*   | 9.00*   | 11.35*  | 14.10*      | 19.60   |
| 16               | 5.00*              | 7.55*   | 9.30*   | 11.70*  | 14.55*      | 20.10*  |
| 17               | 5.15*              | 7.80*   | 9.60*   | 12.05*  | 15.00*      | 20.60   |
| 18               | 5.30*              | 8.05*   | 9.90*   | 12.40*  | 15.45*      | 21.10*  |
| 19               | 5.45*              | 8.30*   | 10.20*  | 12.75*  | 15.90*      | 21.60   |
| 20               | 5.60*              | 8.55*   | 10.50*  | 13.10*  | 16.35*      | 22.10*  |
| 21               | 5.75*              | 8.80*   | 10.80*  | 13.45*  | 16.80*      | 22.60   |
| 22               | 5.90*              | 9.05*   | 11.10*  | 13.80*  | 17.25*      | 23.10*  |
| 23               | 6.05*              | 9.30*   | 11.40*  | 14.15*  | 17.70*      | 23.60   |
| 24               | 6.20*              | 9.55*   | 11.70*  | 14.50*  | 18.15*      | 24.10*  |

Intermediate lengths take next higher list.

| Length in Inches | Diameter in Inches |         |         |          |          |
|------------------|--------------------|---------|---------|----------|----------|
|                  | 3/8                | 1/2     | 3/4     | 1        | 1 1/4    |
| 1 1/4            | \$10.95            | \$16.70 | \$23.25 |          |          |
| 2                | 11.60*             | 17.60   | 24.10   |          |          |
| 2 1/2            | 12.25*             | 18.50   | 25.55   |          |          |
| 3                | 12.90*             | 19.40   | 26.70   | \$ 45.90 | \$ 54.45 |
| 3 1/2            | 13.55*             | 20.30   | 27.85   | 47.20    | 56.10    |
| 4                | 14.20*             | 21.20   | 29.00   | 48.50    | 57.75    |
| 4 1/2            | 14.85*             | 22.10   | 30.15   | 49.80    | 59.40    |
| 5                | 15.50*             | 23.00   | 31.30   | 51.10    | 61.05    |
| 5 1/2            | 16.15              | 23.90   | 32.45   | 52.40    | 62.70    |
| 6                | 16.80*             | 24.80   | 33.60   | 53.70    | 64.35    |
| 6 1/2            | 17.45              | 25.70   | 34.75   | 55.00    | 66.00    |
| 7                | 18.10              | 26.60   | 35.90   | 56.30    | 67.65    |
| 7 1/2            | 18.75              | 27.50   | 37.05   | 57.60    | 69.30    |
| 8                | 19.40*             | 28.40   | 38.20   | 58.90    | 70.95    |
| 8 1/2            | 20.05              | 29.30   | 39.35   | 60.20    | 72.60    |
| 9                | 20.70              | 30.20   | 40.50   | 61.50    | 74.25    |
| 9 1/2            | 21.35              | 31.10   | 41.65   | 62.80    | 75.90    |
| 10               | 22.00*             | 32.00   | 42.80   | 64.10    | 77.55    |
| 11               | 23.30              | 33.80   | 45.10   | 66.70    | 80.85    |
| 12               | 24.60*             | 35.60   | 47.40   | 69.30    | 84.15    |
| 13               | 25.90*             | 37.40   | 49.70   | 71.90    | 87.45    |
| 14               | 27.20*             | 39.20   | 52.00   | 74.50    | 90.75    |
| 15               | 28.50*             | 41.00   | 54.30   | 77.10    | 94.05    |
| 16               | 29.80*             | 42.80   | 56.60   | 79.70    | 97.35    |
| 17               | 31.10              | 44.60   | 58.90   | 82.30    | 100.65   |
| 18               | 32.40              | 46.40   | 61.20   | 84.90    | 103.95   |
| 19               | 33.70              | 48.20   | 63.50   | 87.50    | 107.25   |
| 20               | 35.00              | 50.00   | 65.80   | 90.10    | 110.55   |
| 21               | 36.30              | 51.80   | 68.10   | 92.70    | 113.85   |
| 22               | 37.60              | 53.60   | 70.40   | 95.30    | 117.15   |
| 23               | 38.90              | 55.40   | 72.70   | 97.90    | 120.45   |
| 24               | 40.20              | 57.20   | 75.00   | 100.50   | 123.75   |

Intermediate lengths take next higher list.

We stock Galvanized Bolts only. Plain Bolts (not Galvanized) furnished to order.

3/8 inch Machine and Carriage Bolts carried in stock up to 6 inches long.

5/8 inch Machine and Carriage Bolts not carried in stock.

Diameters and lengths not listed can be furnished—Price on Application.

### Lag Screws

HOT GALVANIZED AND PLAIN



Fig. 1080

Cut Thread—Square Head—Gimlet Point

PRICE PER 100 PIECES

| Length in In. | Diameter Inches |        |         |         |         |         |         |
|---------------|-----------------|--------|---------|---------|---------|---------|---------|
|               | 3/4 & 1 1/4     | 1 1/2  | 2       | 2 1/2   | 3       | 3 1/2   | 4       |
| 1             | \$2.35          | \$2.85 | \$ 4.25 | \$ 5.25 |         |         |         |
| 1 1/2         | 2.15            | 2.60   | 3.90    | 4.85    | \$ 7.95 | \$12.50 |         |
| 2             | 2.35*           | 2.85*  | 3.55*   | 4.45*   | 7.40    | 11.75   | \$18.60 |
| 2 1/2         | 2.55*           | 3.10*  | 3.90*   | 4.85*   | 6.85    | 11.00   | 17.00   |
| 3             | 2.80*           | 3.40*  | 4.30*   | 5.30*   | 7.50    | 11.90   | 18.80   |
| 3 1/2         | 3.05*           | 3.70*  | 4.70*   | 5.75*   | 8.15    | 12.80   | 18.00   |
| 4             | 3.30*           | 4.00*  | 5.10*   | 6.20*   | 8.80*   | 13.70   | 19.20   |
| 4 1/2         | 3.55*           | 4.30*  | 5.50*   | 6.65*   | 9.45*   | 14.60   | 20.40   |
| 5             | 3.80*           | 4.65*  | 5.90*   | 7.10*   | 10.10*  | 15.50   | 21.60   |
| 5 1/2         | 4.05*           | 5.00*  | 6.30*   | 7.55*   | 10.75   | 16.40   | 22.80   |
| 6             | 4.35*           | 5.35*  | 6.70*   | 8.00*   | 11.40*  | 17.30   | 24.00   |
| 6 1/2         | 4.65            | 5.70   | 7.10    | 8.45*   | 12.05   | 18.20   | 25.20   |
| 7             | 4.95            | 6.05*  | 7.50*   | 8.90*   | 12.70*  | 19.10   | 26.40   |
| 7 1/2         | 5.25            | 6.40   | 7.90    | 9.35    | 13.35   | 20.00   | 27.60   |
| 8             | 5.55            | 6.75*  | 8.30*   | 9.80*   | 14.00*  | 20.90   | 28.80   |
| 9             | 5.85            | 7.15   | 8.70    | 10.25   | 14.65   | 21.80   | 30.00   |
| 10            | 6.15            | 7.50   | 9.10    | 10.70   | 15.30   | 22.70   | 31.20   |
| 11            | 6.45            | 7.90   | 9.50    | 11.15   | 15.95   | 23.60   | 32.40   |
| 12            | 6.75            | 8.30   | 9.90    | 11.60   | 16.60   | 24.50   | 33.60   |
| 13            |                 | 8.70   | 10.30   | 12.05   | 17.25   | 25.40   | 34.80   |
| 14            |                 | 9.10   | 10.70   | 12.50   | 17.90   | 26.30   | 36.00   |
| 15            |                 | 9.50   | 11.10   | 12.95   | 18.55   | 27.20   | 37.20   |
| 16            |                 | 9.90   | 11.50   | 13.40   | 19.20   | 28.10   | 38.40   |
| 17            |                 | 10.30  | 11.90   | 13.85   | 19.85   | 29.00   | 39.60   |
| 18            |                 | 10.70  | 12.30   | 14.30   | 20.50   | 30.00   | 40.80   |
| 19            |                 | 11.10  | 12.70   | 14.75   | 21.15   | 31.00   | 42.00   |
| 20            |                 | 11.50  | 13.10   | 15.20   | 21.80   | 32.00   | 43.20   |
| 21            |                 | 11.90  | 13.50   | 15.65   | 22.45   | 33.00   | 44.40   |
| 22            |                 | 12.30  | 13.90   | 16.10   | 23.10   | 34.00   | 45.60   |
| 23            |                 | 12.70  | 14.30   | 16.55   | 23.75   | 35.00   | 46.80   |
| 24            |                 | 13.10  | 14.70   | 17.00   | 24.40   | 36.00   | 48.00   |



**Brass Cap Screws**



U. S. Standard Thread

Fig. 432

DIAMETER OF SCREW—PRICE PER HUNDRED

| Length under Head Inches | Diameter Inches |         |         |         |         |         |
|--------------------------|-----------------|---------|---------|---------|---------|---------|
|                          | ¼ in.           | ⅜ in.   | ½ in.   | ⅝ in.   | ¾ in.   | ⅞ in.   |
| ½                        | \$ 4.70         | \$ 6.70 | .....   | .....   | .....   | .....   |
| ⅝                        | 4.90            | 6.90    | \$ 8.80 | .....   | .....   | .....   |
| ¾                        | 5.10            | 7.10    | 9.10    | \$12.10 | \$17.90 | .....   |
| ⅞                        | 5.30            | 7.30    | 9.40    | .....   | .....   | .....   |
| 1                        | 5.50            | 7.60    | 9.80    | 13.10   | 19.00   | \$26.10 |
| 1¼                       | 6.00            | 8.20    | 10.60   | 14.20   | 20.20   | 28.50   |
| 1½                       | 6.50            | 8.90    | 11.50   | 15.40   | 21.50   | 31.00   |
| 1¾                       | 7.10            | 9.70    | 12.50   | 16.70   | 22.90   | 33.60   |
| 2                        | 7.80            | 10.80   | 13.60   | 18.10   | 24.40   | 36.40   |
| 2¼                       | 8.70            | 11.80   | 14.80   | 19.60   | 26.00   | 39.40   |
| 2½                       | 9.80            | 12.90   | 16.10   | 21.20   | 27.70   | 42.70   |
| 2¾                       | 11.00           | 14.20   | 17.50   | 23.00   | 29.60   | 46.30   |
| 3                        | 12.00           | 15.40   | 19.00   | 25.00   | 31.70   | 50.30   |

**Brass Stove Bolts**

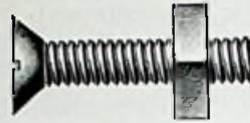


Fig. 709

PER HUNDRED, WITH NUTS

| Length Inches | Diameter Inches |         |         |         |
|---------------|-----------------|---------|---------|---------|
|               | 3/16            | ¼       | 5/16    | ¾       |
| 1½            | \$3.50          | \$ 6.25 | \$ 7.75 | \$14.00 |
| 2             | 4.25            | 6.50    | 12.75   | 16.25   |
| 2½            | 5.00            | 7.50    | 13.50   | 18.50   |
| 3             | 5.75            | 8.50    | 15.25   | 21.50   |
| 3½            | .....           | 15.00   | 20.75   | 25.75   |
| 4             | .....           | 21.00   | 24.75   | 26.75   |
| 5             | .....           | 25.00   | 31.75   | 32.25   |
| 6             | .....           | 33.75   | 39.50   | 41.50   |

**Hexagon Brass Nuts**  
TAPPED U. S. STANDARD THREADS



Fig. 730

| Bolt Diameter | U. S. S. Standard |                |                    | List Price Per Hundred |        |
|---------------|-------------------|----------------|--------------------|------------------------|--------|
|               | Threads Per Inch  | Width (Inches) | Thickness (Inches) | Milled Senz-Finished   | Cast   |
| ⅜             | 24                | ⅜              | ⅜                  | \$1.60                 | .....  |
| ¼             | 20                | ½              | ¼                  | 2.40                   | .....  |
| ⅜             | 18                | ⅜              | ⅜                  | 3.20                   | .....  |
| ⅝             | 16                | ⅝              | ⅝                  | 5.20                   | .....  |
| ⅞             | 14                | ⅞              | ⅞                  | 7.20                   | .....  |
| 1             | 13                | 1              | 1                  | 9.60                   | \$5.00 |
| 1¼            | 12                | 1¼             | 1¼                 | 15.00                  | 7.00   |
| 1½            | 11                | 1½             | 1½                 | 17.00                  | 8.75   |
| 1¾            | 10                | 1¾             | 1¾                 | 27.00                  | 12.00  |
| 2             | 9                 | 2              | 2                  | 45.00                  | 18.00  |
| 2¼            | 8                 | 2¼             | 2¼                 | 68.00                  | 25.00  |
| 2½            | 7                 | 2½             | 2½                 | .....                  | 37.50  |
| 2¾            | 7                 | 2¾             | 2¾                 | .....                  | 50.00  |
| 3             | 6                 | 3              | 3                  | .....                  | 65.00  |
| 3½            | 6                 | 3½             | 3½                 | .....                  | 75.00  |
| 4             | 5                 | 4              | 4                  | .....                  | 125.00 |
| 4½            | 5                 | 4½             | 4½                 | .....                  | 150.00 |
| 5             | 5                 | 5              | 5                  | .....                  | 175.00 |
| 5½            | 4½                | 5½             | 5½                 | .....                  | 250.00 |

**Brass Spring Cotter Pins**



Fig. 703

| Length Inches | PRICE PER 100 Diameter Inches |        |         |         |
|---------------|-------------------------------|--------|---------|---------|
|               | 3/32                          | ¼      | 5/32    | 3/16    |
| 1             | \$3.30                        | \$4.00 | \$ 5.50 | .....   |
| 1½            | 4.00                          | 5.00   | 7.00    | \$10.00 |
| 2             | 5.00                          | 6.00   | 8.50    | 11.50   |
| 2½            | .....                         | 7.00   | 10.00   | 14.00   |

**Gasolene Strainer**

PLAIN BRONZE—WOVEN COPPER SCREEN

With Yoke, Thumb-screw and Supporting Bracket

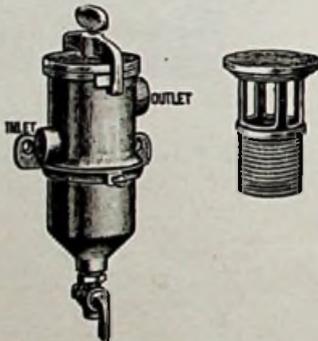


Fig. 299

| *Size No. | Price Each | Length Overall Inches | Diam. Inches | Tapped For Pipe Inches | Weight Each Pounds |
|-----------|------------|-----------------------|--------------|------------------------|--------------------|
| 1         | \$5.00     | 5½                    | 2⅜           | ¼ to ⅜                 | 3                  |
| 1½        | 7.00       | 6¼                    | 3⅞           | ⅜ to ½                 | 5                  |
| 2         | 9.00       | 7¼                    | 3⅞           | ½ to ¾                 | 7                  |

Cover easily removed and the strainer removed for cleaning without disturbing pipe connections. Pet cock at bottom drains the settling chamber. Side bracket supports the strainer, relieving the fuel pipes of all weight.

**Brass Washers**



Fig. 731

| Bolt Size | Outside Diameter | Inside Diameter | Thickness | Price Per Pound | Bolt Size |
|-----------|------------------|-----------------|-----------|-----------------|-----------|
| ⅜         | ½                | .195            | .040      | \$ .80          | ⅜         |
| ¼         | ⅝                | ⅝               | .051      | .75             | ¼         |
| ⅜         | ¾                | ¾               | .064      | .75             | ⅜         |
| ½         | 1                | 1               | .081      | .70             | ½         |
| ⅞         | 1¼               | 1¼              | .081      | .70             | ⅞         |
| 1         | 1½               | 1½              | .091      | .70             | 1         |
| 1¼        | 1¾               | 1¾              | .091      | .70             | 1¼        |
| 1½        | 2                | 2               | .102      | .70             | 1½        |
| 1¾        | 2¼               | 2¼              | .114      | .70             | 1¾        |
| 2         | 2½               | 2½              | .128      | .70             | 2         |
| 2¼        | 3                | 3               | .144      | .70             | 2¼        |



### Iron U. S. S. Hexagon Head Cap Screw



Fig. 1081

Coarse Thread

#### PRICE PER 100 PIECES

| Length of Screw | Diameter of Screw |         |         |         |         |         |         |         |
|-----------------|-------------------|---------|---------|---------|---------|---------|---------|---------|
|                 | 1/4               | 5/16    | 3/8     | 7/16    | 1/2     | 5/8     | 3/4     |         |
| 1/2             | \$3.00            | \$ 4.20 | \$ 5.30 |         |         |         |         |         |
| 5/8             | 4.00              | 4.30    | 5.50    |         |         |         |         |         |
| 3/4             | 4.10              | 4.50    | 5.70    | \$ 7.60 | \$11.10 |         |         |         |
| 7/8             | 4.30              | 4.90    | 5.90    | 8.00    | 11.80   |         |         |         |
| 1               | 4.50              | 5.30    | 6.20    | 8.50    | 12.50   | \$20.00 | \$21.00 |         |
| 1 1/4           | 5.00              | 5.90    | 6.90    | 9.30    | 13.60   | 21.40   | 22.50   | \$33.00 |
| 1 1/2           | 5.50              | 6.50    | 7.60    | 10.30   | 14.70   | 22.80   | 24.00   | 35.00   |
| 1 3/4           | 6.10              | 7.10    | 8.30    | 11.40   | 15.80   | 24.20   | 25.60   | 37.00   |
| 2               | 6.70              | 7.80    | 9.10    | 12.50   | 16.90   | 25.60   | 27.20   | 39.00   |
| 2 1/4           | 7.30              | 8.50    | 9.90    | 13.60   | 18.10   | 27.00   | 28.80   | 41.00   |
| 2 1/2           | 8.00              | 9.20    | 10.70   | 14.70   | 19.30   | 28.40   | 30.40   | 43.00   |
| 2 3/4           | 8.70              | 10.00   | 11.50   | 15.80   | 20.50   | 29.80   | 32.00   | 45.00   |
| 3               | 9.40              | 10.80   | 12.40   | 16.90   | 21.70   | 31.20   | 33.00   | 47.00   |

### Square Iron Nuts

HOT GALVANIZED AND PLAIN  
TAPPED U. S. STANDARD THREAD



Fig. 1084

| Bolt Diam. Inches | Weight Per M In Lbs. | Price Per 100 | Bolt Diam. Inches | Weight Per M In Lbs. | Price Per 100 |
|-------------------|----------------------|---------------|-------------------|----------------------|---------------|
| 1/4*              | 13.8                 | \$ .55        | 3/4*              | 237.1                | \$ 4.60       |
| 5/16*             | 22.8                 | .75           | 7/8               | 371.0                | 7.20          |
| 3/8*              | 37.4                 | 1.05          | 1                 | 518.1                | 10.00         |
| 1/2*              | 55.7                 | 1.50          | 1 1/8             | 725.4                | 14.00         |
| 5/8*              | 78.6                 | 2.00          | 1 1/4             | 957.0                | 19.60         |
| 3/4*              | 109.8                | 2.80          | 1 3/8             | 1257.6               | 33.50         |
|                   | 147.0                | 3.25          | 1 1/2             | 1604.9               | 45.20         |

### Iron U. S. S. Square Head Set Screw



Fig. 1082

Coarse Thread

#### PRICE PER 100 PIECES

| Length of Screw | Diameter of Screw |        |        |         |         |         |         |         |
|-----------------|-------------------|--------|--------|---------|---------|---------|---------|---------|
|                 | 1/4               | 5/16   | 3/8    | 7/16    | 1/2     | 5/8     | 3/4     |         |
| 1/2             | \$2.80            | \$3.15 | \$3.65 |         |         |         |         |         |
| 5/8             | 2.85              | 3.20   | 3.70   | \$ 5.35 | \$ 6.55 |         |         |         |
| 3/4             | 2.90              | 3.25   | 3.75   | 5.45    | 6.65    | \$11.15 | \$11.55 |         |
| 7/8             | 3.10              | 3.40   | 4.00   | 5.55    | 6.75    | 11.35   | 11.75   |         |
| 1               | 3.25              | 3.55   | 4.30   | 5.65    | 6.85    | 11.55   | 11.95   | \$21.10 |
| 1 1/4           | 3.60              | 3.90   | 4.80   | 6.15    | 7.60    | 11.75   | 12.15   | 21.50   |
| 1 1/2           | 3.95              | 4.20   | 5.25   | 6.65    | 8.35    | 11.95   | 12.35   | 21.90   |
| 1 3/4           | 4.25              | 4.70   | 5.90   | 7.25    | 9.10    | 12.00   | 13.30   | 22.30   |
| 2               | 4.55              | 5.20   | 6.55   | 7.90    | 9.80    | 13.80   | 14.20   | 22.70   |
| 2 1/4           | 4.80              | 5.65   | 7.15   | 8.65    | 10.60   | 14.85   | 15.30   | 24.40   |
| 2 1/2           | 5.10              | 6.15   | 7.75   | 9.45    | 11.40   | 16.00   | 16.50   | 26.10   |
| 2 3/4           | 5.35              | 6.60   | 8.40   | 10.15   | 12.15   | 17.15   | 17.65   | 27.80   |
| 3               | 5.65              | 7.10   | 9.00   | 10.90   | 12.35   | 18.35   | 18.85   | 29.35   |

### Hexagon Iron Nuts

HOT GALVANIZED AND PLAIN  
TAPPED U. S. STANDARD THREAD



Fig. 1085

| Bolt Diam. Inches | Weight Per M In Lbs. | Price Per 100 | Bolt Diam. Inches | Weight Per M In Lbs. | Price Per 100 |
|-------------------|----------------------|---------------|-------------------|----------------------|---------------|
| 1/4*              | 12.2                 | \$ .65        | 3/4*              | 202.3                | \$ 5.10       |
| 5/16*             | 19.9                 | .90           | 7/8               | 314.1                | 8.00          |
| 3/8*              | 32.7                 | 1.20          | 1                 | 441.4                | 11.15         |
| 1/2*              | 48.4                 | 1.75          | 1 1/8             | 617.2                | 15.55         |
| 5/8*              | 68.4                 | 2.25          | 1 1/4             | 819.3                | 21.40         |
| 3/4*              | 97.2                 | 3.10          | 1 3/8             | 1077.5               | 28.80         |
|                   | 122.3                | 3.60          | 1 1/2             | 1371.0               | 38.70         |

### Wrought Steel Washers

HOT GALVANIZED—U. S. STANDARD SIZES



Fig. 1083

| For Bolts Inches | Outside Diam. Inches | Size Hole Inches | Thick-ness Gauge Nos. | Thick-ness Inches | Number in 100 Pounds | Per Pound |
|------------------|----------------------|------------------|-----------------------|-------------------|----------------------|-----------|
| 3/16             | 9/16                 | 1/4              | 18                    | 3/64              | 36200                | \$.38     |
| 1/4*             | 1 1/16               | 5/16             | 16                    | 1/16              | 14900                | .33       |
| 5/16             | 3/4                  | 3/8              | 16                    | 1/16              | 11100                | .33       |
| 3/8*             | 7/8                  | 7/16             | 14                    | 5/64              | 6700                 | .21       |
| 7/16             | 1                    | 1/2              | 14                    | 5/64              | 4100                 | .20       |
| 1/2*             | 1-3/8                | 9/16             | 12                    | 7/64              | 2600                 | .19       |
| 9/16             | 1-1/2                | 5/8              | 12                    | 7/64              | 2200                 | .19       |
| 5/8*             | 1-3/4                | 11/16            | 10                    | 1/8               | 1300                 | .18       |
| 3/4*             | 2                    | 13/16            | 10                    | 1/8               | 1000                 | .18       |
| 7/8              | 2-1/4                | 15/16            | 9                     | 5/32              | 728                  | .18       |
| 1*               | 2-1/2                | 1-1/16           | 9                     | 5/32              | 593                  | .18       |

### Standard Packages Machine, Carriage and Lag Bolts

The bolts are packed in cartons or paper packages depending on length, shorter lengths are packed in cartons.

| Diam. Inches | Machine Bolts   |                       | Carriage Bolts  |                       | Lag Bolts       |                       |
|--------------|-----------------|-----------------------|-----------------|-----------------------|-----------------|-----------------------|
|              | Number Per Pkg. | Extreme Length Inches | Number Per Pkg. | Extreme Length Inches | Number Per Pkg. | Extreme Length Inches |
| 3/16         | 100             | 8                     | 100             | 8                     | 100             | 10                    |
| 1/4          | 50              | 10                    | 50              | 10                    | 100             | 10                    |
| 5/16         | 50              | 12                    | 50              | 12                    | 50              | 12                    |
| 3/8          | 50              | 12                    | 50              | 12                    | 50              | 12                    |
| 1/2          | 50              | 10                    | 50              | 8                     | 50              | 12                    |
| 5/8          | 25              | 12                    | 25              | 12                    |                 |                       |
| 3/4          | 25              | 8                     | 25              | 8                     |                 |                       |
| 7/8          | 25              | 8                     | 25              | 8                     | 25              | 8                     |

Longer lengths and larger diameters packed according to the discretion of the manufacturer.

### Connecting Links

DROP FORGED STEEL

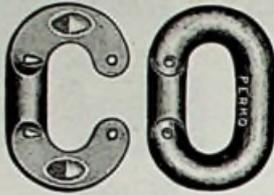


Fig. 319

| Size Inches    | Galv. Per Dozen | S. C. Per Dozen | Overall Dimensions Inches          | Est. Wt. Per Doz. Pounds |
|----------------|-----------------|-----------------|------------------------------------|--------------------------|
| $\frac{1}{8}$  | \$1.50          | \$1.15          | $1\frac{1}{8} \times \frac{3}{4}$  | $\frac{3}{8}$            |
| $\frac{1}{4}$  | 1.50            | 1.15            | $1\frac{1}{2} \times 1$            | $\frac{3}{4}$            |
| $\frac{3}{8}$  | 1.65            | 1.20            | $1\frac{1}{4} \times 1\frac{1}{4}$ | 1                        |
| $\frac{1}{2}$  | 2.00            | 1.50            | $2\frac{1}{8} \times 1\frac{3}{8}$ | 2                        |
| $\frac{5}{8}$  | 2.40            | 1.80            | $2\frac{3}{8} \times 1\frac{1}{2}$ | $3\frac{1}{8}$           |
| $\frac{3}{4}$  | 2.90            | 2.00            | $2\frac{5}{8} \times 1\frac{3}{4}$ | $4\frac{1}{2}$           |
| $\frac{7}{8}$  | 3.90            | 2.70            | $3 \times 1\frac{1}{4}$            | $6\frac{5}{8}$           |
| $\frac{1}{2}$  | 4.50            | 3.20            | $3\frac{1}{8} \times 2\frac{1}{4}$ | 9                        |
| $\frac{1}{2}$  | 5.50            | 4.10            | $3\frac{1}{2} \times 2\frac{1}{4}$ | 11                       |
| $\frac{3}{4}$  | 6.00            | 4.50            | $3\frac{7}{8} \times 2\frac{1}{2}$ | $14\frac{1}{4}$          |
| $\frac{3}{4}$  | 9.25            | 6.75            | $4\frac{1}{2} \times 2\frac{1}{4}$ | $20\frac{1}{4}$          |
| 1              | 14.00           | 11.00           | $5 \times 3\frac{1}{4}$            | 29                       |
| $1\frac{1}{8}$ | 16.50           | 13.50           | $5\frac{5}{8} \times 3\frac{1}{2}$ | 40                       |
| $1\frac{1}{4}$ | 21.50           | 17.50           | $6\frac{1}{8} \times 4$            | $53\frac{1}{2}$          |
| $1\frac{3}{8}$ | 27.00           | 24.50           | $6\frac{3}{4} \times 4\frac{3}{4}$ | 75                       |
| $1\frac{1}{2}$ | 34.00           | 30.00           | $7\frac{1}{4} \times 5\frac{1}{8}$ | 103                      |
| $1\frac{5}{8}$ | 41.00           | 37.00           | $8 \times 5\frac{1}{2}$            | 131                      |
| $1\frac{7}{8}$ | 92.00           | 59.00           | $9 \times 6\frac{1}{4}$            | 216                      |

### Lap Links

GALVANIZED WROUGHT STEEL



Fig. 785

| Size Inches   | Price Per Doz. | Inside Dimensions of Link Inches  | Size Inches   | Price Per Doz. | Inside Dimensions of Link Inches  |
|---------------|----------------|-----------------------------------|---------------|----------------|-----------------------------------|
| $\frac{1}{8}$ | \$ .40         | $1 \times \frac{1}{2}$            | $\frac{3}{8}$ | \$1.35         | $1\frac{1}{8} \times \frac{1}{2}$ |
| $\frac{1}{4}$ | .47            | $1\frac{1}{2} \times \frac{1}{2}$ | $\frac{1}{2}$ | 1.85           | $2 \times \frac{1}{8}$            |
| $\frac{3}{8}$ | .94            | $1\frac{1}{2} \times \frac{3}{8}$ |               | 2.10           | $2 \times 1$                      |

### Exhaust Pipe Flanges

CAST BRONZE



Fig. 214

| For Pipe Inches | Inside Diameter Inches | Outside Diameter Inches | Weight Each         |
|-----------------|------------------------|-------------------------|---------------------|
| 2               | $2\frac{3}{8}$         | $4\frac{7}{8}$          | 13 oz.              |
| $2\frac{1}{2}$  | $2\frac{7}{8}$         | $5\frac{3}{8}$          | 1 lb.               |
| 3               | $3\frac{1}{2}$         | $6\frac{3}{8}$          | $1\frac{1}{2}$ lbs. |
| $3\frac{1}{2}$  | 4                      | $6\frac{7}{8}$          | $1\frac{1}{2}$ lbs. |

| Size           | Plain Bronze Each | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |
|----------------|-------------------|----------------------|--------------------|----------------------|
| 2              | \$1.00            | \$1.75               | \$1.75             | \$2.50               |
| $2\frac{1}{2}$ | 1.00              | 1.75                 | 1.85               | 2.60                 |
| 3              | 1.50              | 2.25                 | 2.25               | 3.00                 |
| $3\frac{1}{2}$ | 1.50              | 2.25                 | 2.25               | 3.00                 |

### Swing Links

DROP FORGED STEEL WITH INTERLOCKING

LUGS

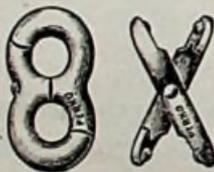


Fig. 784

| Size Inches   | Galvanized Per Dozen | Self Colored Per Dozen | Outside Dimensions Inches          | Wt. Per Dozen in Lbs. |
|---------------|----------------------|------------------------|------------------------------------|-----------------------|
| $\frac{1}{4}$ | \$ 2.40              | \$ 2.20                | $\frac{7}{8} \times 1\frac{1}{8}$  | $\frac{3}{4}$         |
| $\frac{3}{8}$ | 2.90                 | 2.40                   | $1\frac{1}{8} \times 2\frac{1}{4}$ | 1 $\frac{1}{2}$       |
| $\frac{1}{2}$ | 3.40                 | 2.70                   | $1\frac{1}{4} \times 2\frac{1}{2}$ | $2\frac{1}{4}$        |
| $\frac{3}{4}$ | 4.60                 | 3.50                   | $1\frac{1}{4} \times 2\frac{1}{4}$ | $3\frac{3}{4}$        |
| $\frac{1}{2}$ | 5.75                 | 4.30                   | $1\frac{3}{8} \times 3\frac{3}{8}$ | $5\frac{1}{4}$        |
| $\frac{3}{4}$ | 9.00                 | 7.50                   | $1\frac{1}{2} \times 3\frac{1}{4}$ | $7\frac{3}{4}$        |
| $\frac{1}{2}$ | 9.75                 | 8.00                   | $2\frac{1}{8} \times 4\frac{1}{8}$ | 11                    |
| $\frac{3}{4}$ | 13.00                | 11.00                  | $2\frac{3}{4} \times 4\frac{3}{4}$ | $19\frac{1}{2}$       |
| $\frac{1}{2}$ | 20.50                | 17.00                  | $2\frac{7}{8} \times 5\frac{3}{4}$ | $30\frac{1}{2}$       |
| 1             | 24.50                | 20.50                  | $3\frac{3}{4} \times 6\frac{1}{8}$ | 43 $\frac{3}{4}$      |

### Exhaust Tube Flanges

CAST BRONZE



Fig. 738

| For Tubing Inches | Inside Diam. Inches | Outside Diam. Inches | Weight Each         |
|-------------------|---------------------|----------------------|---------------------|
| 2                 | $2\frac{1}{8}$      | $4\frac{1}{8}$       | 11 oz.              |
| $2\frac{1}{2}$    | $2\frac{5}{8}$      | $4\frac{5}{8}$       | 14 oz.              |
| 3                 | $3\frac{1}{8}$      | $5\frac{1}{8}$       | 1 lb.               |
| $3\frac{1}{2}$    | $3\frac{5}{8}$      | $6\frac{1}{8}$       | $1\frac{1}{2}$ lbs. |
| 4                 | $4\frac{1}{8}$      | $7\frac{1}{8}$       | $1\frac{1}{2}$ lbs. |

| Size           | Plain Bronze Each | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |
|----------------|-------------------|----------------------|--------------------|----------------------|
| 2              | \$1.00            | \$1.75               | \$2.25             | \$3.00               |
| $2\frac{1}{2}$ | .90               | 1.65                 | 1.90               | 2.65                 |
| 3              | 1.00              | 1.75                 | 2.00               | 2.75                 |
| $3\frac{1}{2}$ | 1.40              | 2.15                 | 2.40               | 3.15                 |
| 4              | 1.45              | 2.20                 | 2.50               | 3.25                 |



### Small Eye Match Hooks

DROP FORGED



Fig. 439

| Diameter Hook Inches | Galv. List Each | Length Hook Inches | Inside Diam. of Eye Inches | Inside Diam. of Hook Inches | Weight Per 100 in Lbs. |
|----------------------|-----------------|--------------------|----------------------------|-----------------------------|------------------------|
| 1/4                  | \$ .30          | 2 1/8              | 1/2                        | 3/8                         | 8                      |
| 3/8                  | .30             | 2 1/2              | 5/8                        | 3/4                         | 12 1/2                 |
| 1/2                  | .35             | 2 7/8              | 1 1/8                      | 7/8                         | 22                     |
| 5/8                  | .40             | 3 1/2              | 7/8                        | 1                           | 38                     |
| 3/4                  | .70             | 4 1/8              | 1                          | 1 1/4                       | 78                     |
| 7/8                  | .90             | 5 1/8              | 1 1/8                      | 1 3/8                       | 113                    |
| 1                    | 1.20            | 5 3/8              | 1 1/4                      | 1 1/2                       | 175                    |
|                      | 1.50            | 6 1/4              | 1 3/8                      | 1 3/4                       | 281                    |

### Tiller Rope Clamps

CAST BRONZE



Fig. 358

| For Rope Diameter Inches | Plain Bronze Each | Width Inches | Length Inches | Weight Ounces |
|--------------------------|-------------------|--------------|---------------|---------------|
| 1/8                      | \$ .17            | 3/4          | 1 1/2         | 2             |
| 3/16                     | .20               | 3/4          | 1 3/8         | 3             |
| 1/4                      | .25               | 1            | 1 3/4         | 4             |
| 5/16                     | .30               | 1            | 2             | 7             |
| 3/8                      | .35               | 1 1/8        | 2             | 8             |

### Match Hooks and Wire Rope

#### Thimbles



Fig. 539

| Size Inches | Galv. List Each | Score of Thimble Inches | Length Hook Inches | Inside Diam. of Eye Inches | Inside Diam. of Hook Inches | Approx. Weight Per 100 in Lbs. |
|-------------|-----------------|-------------------------|--------------------|----------------------------|-----------------------------|--------------------------------|
| 1/4         | \$ .40          | 3/16                    | 2 1/8              | 1/2                        | 5/8                         | 11                             |
| 3/8         | .40             | 1/4                     | 2 1/2              | 5/8                        | 3/4                         | 17                             |
| 1/2         | .45             | 5/16                    | 2 7/8              | 1 1/8                      | 7/8                         | 27                             |
| 5/8         | .55             | 3/8                     | 3 1/2              | 7/8                        | 1                           | 51                             |
| 3/4         | .90             | 1/2                     | 4 1/8              | 1                          | 1 1/4                       | 95                             |
| 7/8         | 1.10            | 5/8                     | 5 1/8              | 1 1/8                      | 1 3/8                       | 141                            |
| 1           | 1.50            | 3/4                     | 5 3/8              | 1 1/4                      | 1 1/2                       | 207                            |
|             | 1.85            | 7/8                     | 6 1/4              | 1 3/8                      | 1 3/4                       | 334                            |

### Tiller Rope Clamps

GALVANIZED CAST IRON



Fig. 343

| For Rope Diameter Inches | Galv. Each | Width Inches | Length Inches | Est. Wt. Each Pounds |
|--------------------------|------------|--------------|---------------|----------------------|
| 1/8                      | \$ .12     | 3/8          | 1 1/8         | 1/8                  |
| 3/16                     | .15        | 1/2          | 1 1/4         | 1/8                  |
| 1/4                      | .20        | 5/8          | 1 3/4         | 1/4                  |
| 5/16                     | .25        | 3/4          | 2             | 1/4                  |
| 3/8                      | .30        | 7/8          | 2 1/4         | 1/2                  |

### Match Hooks and Manila Rope

#### Thimbles

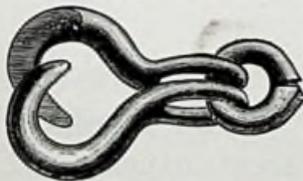


Fig. 540

| Size Inches | Galv. List Each | Thimble Scored For Rope Diam. Inches | Length Hook Inches | Inside Diam. of Eye Inches | Inside Diam. of Hook Inches | Approx. Weight Per 100 in Lbs. |
|-------------|-----------------|--------------------------------------|--------------------|----------------------------|-----------------------------|--------------------------------|
| 1/4         | \$ .40          | 3/8                                  | 2 1/4              | 5/8                        | 5/8                         | 10                             |
| 3/8         | .40             | 1/2                                  | 2 1/2              | 3/4                        | 3/4                         | 17                             |
| 1/2         | .45             | 5/8                                  | 3 1/8              | 7/8                        | 7/8                         | 25                             |
| 5/8         | .55             | 3/4                                  | 3 3/8              | 1 1/8                      | 1                           | 49                             |
| 3/4         | .90             | 7/8                                  | 4 1/2              | 1 1/4                      | 1 1/4                       | 107                            |
| 7/8         | 1.10            | 1                                    | 5 1/8              | 1 1/2                      | 1 3/8                       | 166                            |
| 1           | 1.50            | 1 1/8                                | 6 1/8              | 1 3/4                      | 1 1/2                       | 254                            |
|             | 1.85            | 1 1/4                                | 7                  | 2                          | 1 3/4                       | 377                            |

### Anchor Trip Hooks

CAST BRONZE—PLAIN



Fig. 1038

A fine grade, heavy bronze Hook of great tensile strength. Hook is held in working position by positive locking device with cotter pin on chain to prevent accidental tripping. A pull on the tripping lever when cotter is removed immediately releases hook as shown by dotted lines.

| No. | Price Each | Length Inches | Diam. Hook Inches | For Block Inches | Weight Pounds |
|-----|------------|---------------|-------------------|------------------|---------------|
| 1   | \$2.75     | 5             | 5/8               | 3 1/2            | 1             |
| 2   | 3.85       | 5 1/2         | 3/4               | 4                | 1 1/2         |

DEDUCT 5% FOR SELF COLORED

## Hooks and Thimbles

DROP FORGED STEEL  
FOR MANILA ROPE



Fig. 609

| Size Inches | Galv. Each | Length Overall Inches | For Diam. Rope Inches | Weight Per 100 in Lbs. |
|-------------|------------|-----------------------|-----------------------|------------------------|
| 1/4         | \$ .22     | 2                     | 3/8                   | 6                      |
| 5/16        | .22        | 2 3/8                 | 1/2                   | 10 1/2                 |
| 3/8         | .25        | 2 7/8                 | 5/8                   | 18                     |
| 1/2         | .30        | 3 3/8                 | 3/4                   | 37 1/2                 |
| 5/8         | .50        | 4 3/8                 | 7/8                   | 80                     |
| 3/4         | .60        | 5 3/8                 | 1                     | 150                    |
| 7/8         | .80        | 6 1/4                 | 1 1/8                 | 212                    |
| 1           | 1.00       | 7                     | 1 1/4                 | 300                    |
| 1 1/8       | 1.35       | 7 1/2                 | 1 3/8                 | 350                    |
| 1 1/4       | 1.65       | 8 3/8                 | 1 1/2                 | 450                    |

Deduct 5% for Self Colored Finish.

## Hooks and Thimbles

DROP FORGED STEEL  
FOR WIRE ROPE



Fig. 610

| Size Inches | Galv. Each | Length Overall Inches | Score of Thimble Inches | Weight Per 100 in Lbs. |
|-------------|------------|-----------------------|-------------------------|------------------------|
| 1/4         | \$ .22     | 2                     | 3/8                     | 8                      |
| 5/16        | .22        | 2 3/8                 | 1/2                     | 11                     |
| 3/8         | .25        | 2 3/4                 | 5/8                     | 24                     |
| 1/2         | .30        | 3 1/4                 | 3/4                     | 32                     |
| 5/8         | .50        | 4                     | 1/2                     | 62                     |
| 3/4         | .60        | 4 7/8                 | 1/2                     | 103                    |
| 7/8         | .80        | 5 3/8                 | 3/8                     | 142                    |
| 1           | 1.00       | 6 1/4                 | 3/4                     | 225                    |
| 1 1/8       | 1.35       | 7                     | 7/8                     | 293                    |
| 1 1/4       | 1.65       | 7 1/4                 | 1                       | 400                    |

Deduct 5% for Self Colored Finish.

## Small Eye Hooks

FOR BLOCKS—DROP FORGED STEEL



Fig. 656

| Size Inches | Galv. Each | Length Overall Inches | Throat Opening Inches | Est. Wt. Per 100 in Lbs. |
|-------------|------------|-----------------------|-----------------------|--------------------------|
| 1/4         | \$ .15     | 2                     | 3/32                  | 7                        |
| 5/16        | .15        | 2 3/8                 | 1/2                   | 10                       |
| 3/8         | .18        | 2 1/2                 | 3/16                  | 21                       |
| 1/2         | .20        | 3 1/4                 | 1/16                  | 26                       |
| 5/8         | .35        | 4                     | 1/8                   | 50                       |
| 3/4         | .45        | 4 7/8                 | 1/8                   | 92                       |
| 7/8         | .60        | 5 3/8                 | 1 1/8                 | 128                      |
| 1           | .75        | 6 1/4                 | 1 1/4                 | 200                      |
| 1 1/8       | 1.05       | 7                     | 1 7/8                 | 255                      |
| 1 1/4       | 1.30       | 7 3/8                 | 1 1/2                 | 375                      |

## "S" Hooks

WROUGHT STEEL GALVANIZED



Fig. 680

| Size Inches | Price Per Doz. | Length Overall Inches | Est. Wt. Per Doz. in Lbs. |
|-------------|----------------|-----------------------|---------------------------|
| 1 1/8       | \$ .36         | 1 1/2                 | 1/4                       |
| 1/4         | .48            | 2                     | 1/2                       |
| 5/16        | .96            | 2 1/2                 | 1                         |
| 3/8         | 1.20           | 3                     | 1 3/4                     |
| 1 1/8       | 1.80           | 3 3/4                 | 2 3/4                     |
| 1/2         | 2.40           | 3 3/4                 | 4                         |

## Screw Hooks

STEEL—GALVANIZED

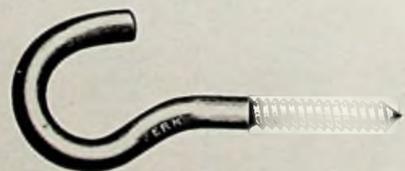


Fig. 779

| Size Inches | Galvanized Per Doz. | Length Overall Inches | Est. Wt. Per Doz. in Lbs. |
|-------------|---------------------|-----------------------|---------------------------|
| 1/4         | \$ .95              | 3 1/2                 | 3/4                       |
| 5/16        | 1.10                | 4                     | 1                         |
| 3/8         | 1.20                | 4 3/4                 | 2 1/8                     |
| 1/2         | 2.20                | 5 7/8                 | 4 3/4                     |





### Portland Cargo Hooks

DROP FORGED STEEL  
HEAT TREATED



Fig. 414

| Size No. | Price Each | Overall Length Inches          | Throat Opening Inches         | Inside Diam. Eye Inches       | Wt. Each Pounds                | Ult. T. S. Pounds |
|----------|------------|--------------------------------|-------------------------------|-------------------------------|--------------------------------|-------------------|
| 20       | \$2.00     | 8 <sup>7</sup> / <sub>8</sub>  | 1 <sup>1</sup> / <sub>4</sub> | 1                             | 4                              | 18,000            |
| 21       | 4.00       | 11                             | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>4</sub> | 7 <sup>1</sup> / <sub>2</sub>  | 29,800            |
| 22       | 6.00       | 12 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 14 <sup>1</sup> / <sub>2</sub> | 51,800            |

### Western Cargo Hooks

DROP FORGED STEEL



Fig. 453

| Size No. | Price Each | Size Swivel Inches          | Length Hook Inches             | Est. Wt. Each Pounds |
|----------|------------|-----------------------------|--------------------------------|----------------------|
| 31       | \$14.00    | <sup>7</sup> / <sub>8</sub> | 11                             | 21                   |
| 32       | 19.00      | 1                           | 12 <sup>1</sup> / <sub>2</sub> | 35                   |

### Seattle Cargo Hooks

DROP FORGED STEEL



Fig. 461

| Size No. | Price Each | Size Swivel Inches          | Length Hook Inches             | Est. Wt. Each Pounds |
|----------|------------|-----------------------------|--------------------------------|----------------------|
| 41       | \$20.00    | <sup>7</sup> / <sub>8</sub> | 11                             | 28                   |
| 42       | 27.00      | 1                           | 12 <sup>1</sup> / <sub>2</sub> | 44                   |

### Liverpool Cargo Hooks

DROP FORGED STEEL



Fig. 415

| Size No. | Price Each | Length Hook Inches             | Size Swivel Inches          | Throat Opening Inches         | Est. Wt. Each Pounds           |
|----------|------------|--------------------------------|-----------------------------|-------------------------------|--------------------------------|
| 0        | \$ 5.50    | 8 <sup>7</sup> / <sub>8</sub>  | <sup>5</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>4</sub> | 6 <sup>1</sup> / <sub>4</sub>  |
| 1        | 10.00      | 11                             | <sup>7</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 12 <sup>3</sup> / <sub>4</sub> |
| 2        | 14.00      | 12 <sup>1</sup> / <sub>2</sub> | 1                           | 1 <sup>1</sup> / <sub>2</sub> | 23                             |

### Mooring or Towing Hooks

DROP FORGED STEEL  
WITH SAFETY LATCH



Fig. 611

### New York Cargo Hooks

DROP FORGED STEEL



Fig. 417

| Size No. | Price Each | Size Swivel Shackle Inches  | Length Hook Inches             | Est. Wt. Each In Lbs.          |
|----------|------------|-----------------------------|--------------------------------|--------------------------------|
| 10       | \$ 4.50    | <sup>5</sup> / <sub>8</sub> | 8 <sup>7</sup> / <sub>8</sub>  | 6 <sup>1</sup> / <sub>4</sub>  |
| 11       | 8.50       | <sup>7</sup> / <sub>8</sub> | 11                             | 12 <sup>3</sup> / <sub>4</sub> |
| 12       | 11.50      | 1                           | 12 <sup>1</sup> / <sub>2</sub> | 24                             |

| Size No. | Galv. Each | Inside Diam. Eye Inches     | Outside Diam. Eye Inches      | Extreme Length Inches         | Extreme Width Inches          | Throat Opening Inches         |
|----------|------------|-----------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 2        | \$ .75     | <sup>3</sup> / <sub>4</sub> | 1 <sup>1</sup> / <sub>2</sub> | 4 <sup>1</sup> / <sub>4</sub> | 2 <sup>1</sup> / <sub>4</sub> | <sup>5</sup> / <sub>8</sub>   |
| 3        | .90        | <sup>7</sup> / <sub>8</sub> | 1 <sup>3</sup> / <sub>4</sub> | 5                             | 3 <sup>1</sup> / <sub>4</sub> | <sup>11</sup> / <sub>16</sub> |
| 4        | 1.10       | 1                           | 2                             | 5 <sup>1</sup> / <sub>2</sub> | 3 <sup>1</sup> / <sub>4</sub> | <sup>11</sup> / <sub>16</sub> |

## Heavy Steering Rope Pulleys

CAST BRONZE—PLAIN

FOR WIRE ROPE

SIDE PATTERN



Fig. 962

The sturdy construction answers the demand for a larger and stronger tiller rope pulley. The sheave pin is  $\frac{3}{4}$  inch diameter bronze rod.

| Plain Bronze Each | For Wire Rope Diameter Inches | Diameter Sheave Inches | Length of Plate Inches |
|-------------------|-------------------------------|------------------------|------------------------|
| \$8.00            | $\frac{1}{2}$                 | $6\frac{3}{4}$         | 9                      |

UPRIGHT PATTERN

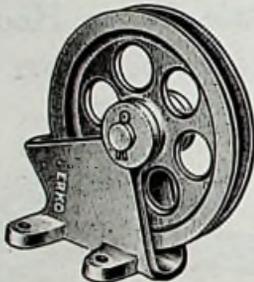


Fig. 963

| Plain Bronze Each | For Wire Rope Diameter Inches | Diameter Sheave Inches | Height Overall Inches |
|-------------------|-------------------------------|------------------------|-----------------------|
| \$8.00            | $\frac{1}{2}$                 | $6\frac{3}{4}$         | $7\frac{1}{2}$        |

## Tiller Rope Pulley

SWIVEL EYE AND STRAP

CAST BRONZE—PLAIN



Fig. 585

| For Rope Diam. Inches | Length Overall Inches | Diam. Wheel Inches | Length Strap Inches | Weight Oz. |
|-----------------------|-----------------------|--------------------|---------------------|------------|
| $\frac{3}{8}$         | $3\frac{1}{2}$        | 1 $\frac{1}{2}$    | 2                   | 6          |

Plain Bronze, each \$ .85

## Tiller Rope Pulley

WITH FLANGE EYE—CAST BRONZE

Pulley hangs loose on flange eye and can be used at any angle. Cast bronze body, brass wheel turned from rod, no rough surface to wear tiller rope.



Fig. 579

| For Rope Diam. Inches | Length Pulley Inches | Size Wheel Inches | Size Base of Strap Inches | Plain Bronze Each | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |
|-----------------------|----------------------|-------------------|---------------------------|-------------------|----------------------|--------------------|----------------------|
| $\frac{3}{8}$         | 1 $\frac{3}{4}$      | 1 x $\frac{1}{2}$ | $\frac{3}{4}$ x 2         | \$.70             | \$.75                | \$1.15             | \$1.95               |

## Flange Eyes

CAST BRONZE AND NICKEL SILVER

For Fig. 579 Pulley



Fig. 580

| Length Overall Inches | Width Overall Inches | Size Opening Inches | Plain Bronze Each | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each | Nickel Silver Each |
|-----------------------|----------------------|---------------------|-------------------|----------------------|--------------------|----------------------|--------------------|
| 2                     | $\frac{3}{4}$        | $\frac{3}{8}$       | \$.14             | \$.30                | \$.50              | \$1.25               | \$.50              |

## Tiller Rope Pulley

CAST BRONZE—PLAIN



Fig. 110

Well constructed of heavy cast bronze, large diameter bronze wheel gives quick action and minimum wear to tiller rope. Wheel will take up to  $\frac{1}{4}$  inch diameter rope.

| Height Overall Inches | Diam. Wheel Inches | Size Eye Inches               | Weight Each Oz. |
|-----------------------|--------------------|-------------------------------|-----------------|
| 3 $\frac{3}{8}$       | 1 $\frac{1}{2}$    | $\frac{3}{8}$ x $\frac{3}{4}$ | 8               |

Plain Bronze, Each .....\$1.10

## Tiller Rope Pulley

WITH STRAP

CAST BRONZE—PLAIN



Fig. 111

Pulley is same as Fig. 110 above, furnished complete with strap of cast bronze drilled for large screws, a sturdy and dependable fitting.

| Length Strap Inches | Width Strap Inches | Weight Complete Oz. |
|---------------------|--------------------|---------------------|
| 3                   | $\frac{5}{8}$      | 9                   |

Plain Bronze, Each .....\$1.25

## Tiller Rope Guides

UPRIGHT PATTERN—CAST BRONZE

Cast bronze base, brass wheel turned from rod. Wheel turns very freely and has no rough surfaces to wear tiller rope.



Fig. 593

| For Rope Diam. Inches | Size Base Inches                | Weight Oz. | Plain Bronze Each | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |
|-----------------------|---------------------------------|------------|-------------------|----------------------|--------------------|----------------------|
| $\frac{1}{4}$         | $\frac{7}{8}$ x 1 $\frac{1}{2}$ | 2          | \$.40             | \$.65                | \$.95              | \$1.40               |



### Tiller Rope Guides

SIDE PATTERN—CAST BRONZE

Cast bronze base, brass wheel turned from rod.



Fig. 594

| For Rope Diam. Inches | Size Base Inches                  | Weight Oz.           |
|-----------------------|-----------------------------------|----------------------|
| $\frac{1}{8}$         | $\frac{3}{4} \times 1\frac{1}{8}$ | 1½                   |
| Polished Bronze Each  | Nickel Plated Each                | Chromium Plated Each |
| \$ .60                | \$ .95                            | \$1.40               |

### Tiller Rope Guides

GALVANIZED CAST IRON AND BRONZE

Round Plate

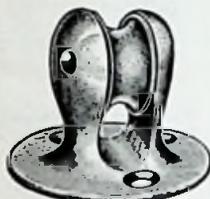


Fig. 102

| Size No. | Galvanized Iron Each | Plain Bronze Each | Polished Bronze Each | Chromium Plated Each |
|----------|----------------------|-------------------|----------------------|----------------------|
| 1        | \$ .15               | \$ .30            | \$ .55               | \$1.55               |
| 2        | .25                  | .40               | .65                  | 1.65                 |
| 3        | .35                  | .50               | .80                  | 1.80                 |

### Tiller Rope Guides

CAST BRONZE



Fig. 359

| Size Hole Inches | Size Base Inches                   | Plain Bronze Each | Polished Bronze Each | Nickel Plated Each | Chrom. Plated Each |
|------------------|------------------------------------|-------------------|----------------------|--------------------|--------------------|
| $\frac{3}{8}$    | $1\frac{1}{2} \times 1$            | \$ .14            | \$ .25               | \$ .35             | \$ .70             |
| $\frac{1}{2}$    | $1\frac{3}{4} \times 1\frac{1}{8}$ | .16               | .30                  | .40                | .75                |
| $\frac{5}{8}$    | $1\frac{7}{8} \times 1\frac{1}{4}$ | .18               | .35                  | .45                | .85                |

### Tiller Rope Guides

GALVANIZED CAST IRON AND BRONZE OVAL PLATE



Fig. 599

| Size No. | Size Hole Inches | Size Base Inches                   | Galv. Iron Each | Plain Bronze Each | Pol. Bronze Each | Chrom. Plated Each |
|----------|------------------|------------------------------------|-----------------|-------------------|------------------|--------------------|
| 1        | $\frac{3}{8}$    | $\frac{1}{2} \times 1\frac{1}{2}$  | \$ .08          | \$ .14            | \$ .25           | \$ .70             |
| 2        | $\frac{1}{2}$    | $1\frac{1}{4} \times 1\frac{3}{4}$ | .10             | .16               | .30              | .75                |
| 3        | $\frac{5}{8}$    | $1\frac{1}{2} \times 1\frac{1}{2}$ | .12             | .18               | .35              | .85                |

### Galvanized Iron Rigging

FOR GUY ROPES

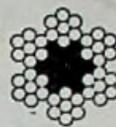


Fig. 759

Composed of six strands and a hemp center, 7 wires to the strand.

| Diam. Inches   | Circumference Inches | Price per ft. |
|----------------|----------------------|---------------|
| $\frac{1}{8}$  | $\frac{1}{2}$        | \$0.03½       |
| $\frac{1}{4}$  | $\frac{3}{4}$        | .04           |
| $\frac{5}{16}$ | 1                    | .06           |
| $\frac{3}{8}$  | $1\frac{1}{8}$       | .08           |

### Flexible Wire Tiller Rope

GALVANIZED AND BRONZE



Fig. 760

Composed of 6 ropes and a hemp center. Each rope has 6 strands of 7 wires each and a cotton center.

| Diam. Inches  | Galvanized Price Per Foot | Bronze Price Per Foot |
|---------------|---------------------------|-----------------------|
| $\frac{1}{8}$ | \$ .04                    | \$ .06                |
| $\frac{1}{4}$ | .12                       | .15                   |
| $\frac{3}{8}$ | .13                       | .17                   |
| $\frac{1}{2}$ | .14                       | .20                   |
| $\frac{3}{4}$ | .15                       | .28                   |
| $\frac{1}{2}$ | .20                       | .40                   |

### Braided Tiller Rope

WITH BRONZE CENTER



Fig. 761

| Diam. Inches  | Price Per Foot |
|---------------|----------------|
| $\frac{1}{8}$ | \$ .05         |
| $\frac{1}{4}$ | .06            |
| $\frac{3}{8}$ | .08            |
| $\frac{1}{2}$ | .11            |

All above rigging and tiller rope can be furnished in 250 and 500 foot reels.

### Fast Eye Blocks

GALVANIZED MALLEABLE IRON AND BRONZE  
SINGLE

Without Becket

With Becket

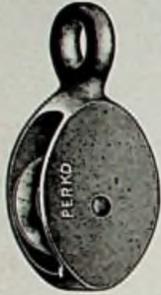


Fig. 43



Fig. 54

| Size No. | Galv. Each | Plain Bronze Each | Pol. Bronze Each | For Rope Diam. Inches | Size Sheaves Inches               | Weight Each Pounds |
|----------|------------|-------------------|------------------|-----------------------|-----------------------------------|--------------------|
| 1        | \$.12      | \$.20             | \$.40            | $\frac{1}{8}$         | $\frac{3}{4} \times \frac{1}{8}$  | $\frac{3}{8}$      |
| 3        | .15        | .25               | .45              | $\frac{1}{4}$         | $1 \times \frac{3}{8}$            | $\frac{1}{2}$      |
| 5        | .25        | .30               | .50              | $\frac{5}{16}$        | $1\frac{1}{4} \times \frac{1}{4}$ | $\frac{1}{4}$      |
| 7        | .35        | .40               | .65              | $\frac{3}{8}$         | $1\frac{1}{2} \times \frac{1}{2}$ | $\frac{3}{8}$      |
| 9        | .45        |                   |                  | $\frac{1}{2}$         | $1\frac{3}{4} \times \frac{1}{2}$ | $\frac{1}{2}$      |
| 11       | .60        |                   |                  | $\frac{1}{2}$         | $2 \times \frac{3}{8}$            | $\frac{3}{8}$      |
| 13       | .80        |                   |                  | $\frac{5}{8}$         | $2\frac{1}{2} \times \frac{3}{4}$ | $1 \frac{1}{8}$    |
| 15       | 1.25       |                   |                  | $\frac{3}{4}$         | $3 \times \frac{1}{2}$            | $1\frac{1}{8}$     |

### Loose Hook Blocks

GALVANIZED MALLEABLE IRON BODY  
FORGED STEEL HOOKS  
SINGLE

Without Becket

With Becket



Fig. 52



Fig. 56

| Size No. | Galvanized Each | Length of Shell Inches | For Rope Diam. Inches | Weight Each Pounds |
|----------|-----------------|------------------------|-----------------------|--------------------|
| 1        | \$.50           | $1\frac{1}{2}$         | $\frac{1}{8}$         | $\frac{1}{8}$      |
| 3        | .55             | $1\frac{5}{8}$         | $\frac{1}{4}$         | $\frac{1}{4}$      |
| 5        | .70             | 2                      | $\frac{1}{4}$         | $\frac{1}{4}$      |
| 7        | .85             | $2\frac{3}{8}$         | $\frac{3}{8}$         | $\frac{1}{8}$      |
| 9        | 1.05            | 3                      | $\frac{1}{2}$         | $\frac{5}{8}$      |
| 11       | 1.30            | $3\frac{1}{4}$         | $\frac{1}{2}$         | 1                  |
| 13       | 1.60            | 4                      | $\frac{5}{8}$         | $2\frac{1}{4}$     |
| 15       | 2.30            | $4\frac{3}{8}$         | $\frac{3}{4}$         | $2\frac{1}{2}$     |

### Fast Eye Blocks

GALVANIZED MALLEABLE IRON  
DOUBLE

Without Becket

With Becket



Fig. 51



Fig. 55

| Size No. | Galv. Each | Plain Bronze Each | Pol. Bronze Each | For Rope Diam. Inches | Size Sheave Inches                | Weight Each Pounds |
|----------|------------|-------------------|------------------|-----------------------|-----------------------------------|--------------------|
| 2        | \$.20      | \$.35             | \$.55            | $\frac{1}{8}$         | $\frac{3}{4} \times \frac{1}{8}$  | $\frac{1}{8}$      |
| 4        | .25        | .45               | .65              | $\frac{1}{4}$         | $1 \times \frac{3}{8}$            | $\frac{1}{4}$      |
| 6        | .35        | .70               | .90              | $\frac{5}{16}$        | $1\frac{1}{4} \times \frac{1}{4}$ | $\frac{3}{8}$      |
| 8        | .45        | .80               | 1.05             | $\frac{3}{8}$         | $1\frac{1}{2} \times \frac{1}{2}$ | $\frac{3}{8}$      |
| 10       | .65        |                   |                  | $\frac{1}{2}$         | $1\frac{3}{4} \times \frac{1}{2}$ | $\frac{3}{4}$      |
| 12       | .85        |                   |                  | $\frac{1}{2}$         | $2 \times \frac{3}{8}$            | $1\frac{1}{4}$     |
| 14       | 1.50       |                   |                  | $\frac{5}{8}$         | $2\frac{1}{2} \times \frac{3}{4}$ | $2 \frac{1}{8}$    |
| 16       | 2.00       |                   |                  | $\frac{3}{4}$         | $3 \times \frac{1}{2}$            | $2\frac{3}{4}$     |

### Loose Hook Blocks

GALVANIZED MALLEABLE IRON  
DOUBLE

Without Becket

With Becket



Fig. 53



Fig. 58

| Size No. | Galvanized Each | Length of Shell Inches | For Rope Diam. Inches | Weight Each Pounds |
|----------|-----------------|------------------------|-----------------------|--------------------|
| 2        | \$.60           | $1\frac{1}{2}$         | $\frac{1}{8}$         | $\frac{1}{4}$      |
| 4        | .65             | $1\frac{3}{8}$         | $\frac{1}{4}$         | $\frac{3}{8}$      |
| 6        | .80             | 2                      | $\frac{1}{4}$         | $\frac{1}{2}$      |
| 8        | .95             | $2\frac{3}{8}$         | $\frac{3}{8}$         | $\frac{3}{8}$      |
| 10       | 1.25            | 3                      | $\frac{1}{2}$         | 1                  |
| 12       | 1.55            | $3\frac{1}{4}$         | $\frac{1}{2}$         | $1\frac{1}{2}$     |
| 14       | 2.30            | 4                      | $\frac{5}{8}$         | $2\frac{1}{2}$     |
| 16       | 3.00            | $4\frac{3}{8}$         | $\frac{3}{4}$         | $3\frac{3}{4}$     |



### Swivel Eye Blocks

GALVANIZED MALLEABLE IRON AND BRONZE

Single



Fig. 100

| Size No. | For Diam. Rope Inches | Length Shell Inches | Diameter Sheave Inches | Weight Per Doz. in Lbs. |
|----------|-----------------------|---------------------|------------------------|-------------------------|
| 0        | 1/8                   | 1                   | 1/2                    | 1/2                     |
| 1        | 3/16                  | 1 1/4               | 3/4                    | 1 1/4                   |
| 3        | 1/4                   | 1 3/4               | 1                      | 2                       |
| 5        | 5/16                  | 2                   | 1 1/4                  | 2 7/8                   |
| 7        | 3/8                   | 2 1/4               | 1 1/2                  | 4 7/8                   |

| Size No. | Galvanized Iron Each | Plain Bronze Each | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |
|----------|----------------------|-------------------|----------------------|--------------------|----------------------|
| 0        | \$ .10               | \$ .40            | \$ .55               | \$ .95             | \$1.65               |
| 1        | .12                  | .45               | .65                  | 1.05               | 1.75                 |
| 3        | .18                  | .50               | .70                  | 1.15               | 1.85                 |
| 5        | .30                  | .55               | .75                  | 1.30               | 2.00                 |
| 7        | .50                  | .65               | .90                  | 1.50               | 2.20                 |

### Swivel Bolt Pulley

CAST BRONZE

A very strong pulley, bolt is held in by very large and sturdy head, hexagon brass nuts on other end, cannot be pulled off, body made from solid casting, wheel turned from brass rod. Size of bolt, 1/4 inch, diameter, 2 inches long.



Fig. 578

| No. | For Rope Diam. Inches | Length Shell Inches | Size Sheave Inches | Weight Oz. |
|-----|-----------------------|---------------------|--------------------|------------|
| 3   | 1/8                   | 2                   | 1 x 1/8            | 5          |
| 4   | 3/8                   | 2 1/4               | 1 3/8 x 1/8        | 7          |

| No. | Plain Bronze Each | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |
|-----|-------------------|----------------------|--------------------|----------------------|
| 3   | \$ .85            | \$1.15               | \$1.50             | \$2.35               |
| 4   | .90               | 1.30                 | 1.70               | 2.50                 |

### Side Pulleys

GALVANIZED CAST IRON AND BRONZE



Fig. 97

| Size No. | Galv. Each | Pol. Bronze Each | Chrom. Plated Each | Size Base Inches | Diam. Rope Inches | Wt. Per Doz. in Lbs. |
|----------|------------|------------------|--------------------|------------------|-------------------|----------------------|
| 1        | \$ .25     | \$ .50           | \$1.50             | 3/4 x 2 1/8      | 1/4               | 1 3/8                |
| 2        | .35        | .60              | 1.60               | 7/8 x 2 1/4      | 1/8               | 2                    |
| 3        | .45        | .75              | 1.75               | 1 x 3 3/8        | 3/8               | 3 1/4                |

### Swivel Eye Blocks

GALVANIZED MALLEABLE IRON AND BRONZE

Double



Fig. 101

| Size No. | For Diam. Rope Inches | Length Shell Inches | Diameter Sheave Inches | Weight Per Doz. in Lbs. |
|----------|-----------------------|---------------------|------------------------|-------------------------|
| 00       | 1/8                   | 1                   | 1/2                    | 1 1/8                   |
| 2        | 3/16                  | 1 1/4               | 3/4                    | 2 1/4                   |
| 4        | 1/4                   | 1 3/4               | 1                      | 3 3/8                   |
| 6        | 5/16                  | 2                   | 1 1/4                  | 4 1/2                   |
| 8        | 3/8                   | 2 1/4               | 1 1/2                  | 7                       |

| Size No. | Galvanized Iron Each | Plain Bronze Each | Polished Bronze Each | Nickel Plated Each | Chromium Plated Each |
|----------|----------------------|-------------------|----------------------|--------------------|----------------------|
| 00       | \$ .16               | \$ .50            | \$ .65               | \$1.05             | \$1.60               |
| 2        | .20                  | .60               | .80                  | 1.25               | 1.75                 |
| 4        | .30                  | .70               | .90                  | 1.55               | 2.05                 |
| 6        | .50                  | 1.45              | 1.75                 | 2.05               | 2.45                 |
| 8        | .70                  | .....             | .....                | .....              | .....                |

### Blocks on Plates

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 107

| Size No. | Galv. Each | Plain Brass Each | Pol. Brass Each | For Rope Diam. Inches | Style Block | Weight Per 100 in Lbs. |
|----------|------------|------------------|-----------------|-----------------------|-------------|------------------------|
| 3        | \$ .48     | \$1.00           | \$1.50          | 1/4                   | Swivel Eye  | 20                     |
| 5        | .55        | 1.25             | 1.75            | 1/8                   | Swivel Eye  | 35                     |
| 7        | .85        | 1.50             | 2.00            | 3/8                   | Swivel Eye  | 66                     |
| 9        | 1.10       | .....            | .....           | 1/2                   | Fast Eye    | 72                     |

### Deck Blocks

OPEN PATTERN  
GALVANIZED IRON AND BRONZE

SINGLE

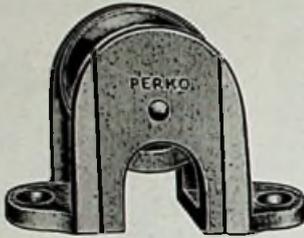


Fig. 87

| Size No. | Mall. Iron Each | Cast Iron Each | Plain Bronze Each | Pol. Bronze Each | For Diam. Rope Inches | Size Sheave Inches                |
|----------|-----------------|----------------|-------------------|------------------|-----------------------|-----------------------------------|
| 0        | \$ .24          | \$ .20         | \$ .50            | \$ .90           | $\frac{1}{8}$         | $1\frac{1}{4} \times \frac{3}{8}$ |
| 1        | .28             | .24            | .60               | 1.00             | $\frac{3}{8}$         | $1\frac{1}{2} \times \frac{1}{2}$ |
| 3        | .55             | .40            | 1.00              | 1.75             | $\frac{1}{2}$         | $2 \times \frac{5}{8}$            |
| 5        | .90             | .75            | 2.25              | 2.75             | $\frac{5}{8}$         | $2\frac{1}{2} \times \frac{3}{4}$ |
| 7        | 1.50            | 1.35           | 3.25              | 4.00             | $\frac{3}{4}$         | $3 \times \frac{7}{8}$            |

### Deck Blocks

OPEN PATTERN  
GALVANIZED IRON AND BRONZE

DOUBLE

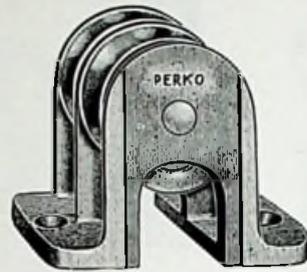


Fig. 88

| Size No. | Mall. Iron Each | Cast Iron Each | Plain Bronze Each | Pol. Bronze Each | For Diam. Rope Inches | Size Sheave Inches                |
|----------|-----------------|----------------|-------------------|------------------|-----------------------|-----------------------------------|
| 2        | \$ .55          | \$ .48         | \$ .75            | \$ 1.25          | $\frac{3}{8}$         | $1\frac{1}{2} \times \frac{1}{2}$ |
| 4        | 1.10            | .80            | 1.75              | 2.50             | $\frac{1}{2}$         | $2 \times \frac{5}{8}$            |
| 8        | 2.70            | 2.00           |                   |                  | $\frac{3}{4}$         | $3 \times \frac{7}{8}$            |

### Deck Blocks

CLOSED PATTERN  
GALVANIZED MALLEABLE AND CAST IRON

SINGLE

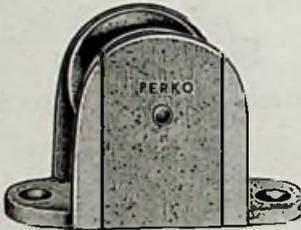


Fig. 93

| Size No. | Mall. Iron Each | Cast Iron Each | For Dia. Rope Inches | Weight Each Pounds | Size Sheave Inches                |
|----------|-----------------|----------------|----------------------|--------------------|-----------------------------------|
| 000      |                 | \$ .18         | $\frac{1}{4}$        | $\frac{1}{8}$      | $1 \times \frac{1}{8}$            |
| 0        | \$ .28          | .20            | $\frac{3}{8}$        | $\frac{1}{4}$      | $1\frac{1}{4} \times \frac{3}{8}$ |
| 1        | .33             | .28            | $\frac{3}{8}$        | $\frac{1}{2}$      | $1\frac{1}{2} \times \frac{1}{2}$ |
| 3        | .55             | .40            | $\frac{1}{2}$        | 1                  | $2 \times \frac{5}{8}$            |
| 5        | .90             | .75            | $\frac{5}{8}$        | $1\frac{3}{4}$     | $2\frac{1}{2} \times \frac{3}{4}$ |
| 7        | 1.50            | 1.35           | $\frac{3}{4}$        | $2\frac{1}{4}$     | $3 \times \frac{7}{8}$            |

### Deck Blocks

CLOSED PATTERN  
GALVANIZED MALLEABLE AND CAST IRON

DOUBLE

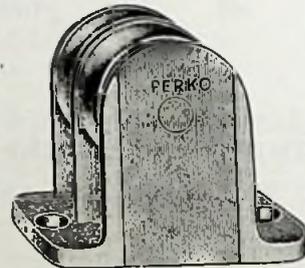


Fig. 94

| Size No. | Mall. Iron Each | Cast Iron Each | For Dia. Rope Inches | Weight Each Pounds | Size Sheave Inches                |
|----------|-----------------|----------------|----------------------|--------------------|-----------------------------------|
| 2        | \$ .70          | \$ .48         | $\frac{3}{8}$        | $\frac{3}{8}$      | $1\frac{1}{2} \times \frac{1}{2}$ |
| 4        | 1.10            | .80            | $\frac{1}{2}$        | $1\frac{1}{2}$     | $2 \times \frac{5}{8}$            |

### Cheek Blocks

GALVANIZED MALLEABLE IRON AND BRONZE

SINGLE



Fig. 95

| Size No. | Galv. Each | Plain Bronze Each | Polished Bronze Each | For Diam. Rope Inches | Size Sheave Inches                |
|----------|------------|-------------------|----------------------|-----------------------|-----------------------------------|
| 0        | \$ .30     | \$ .55            | \$ .75               | $\frac{1}{4}$         | $1 \times \frac{3}{8}$            |
| 1        | .35        | .60               | .90                  | $\frac{3}{8}$         | $1\frac{3}{8} \times \frac{1}{8}$ |
| 2        | .45        | .75               | 1.25                 | $\frac{3}{8}$         | $1\frac{1}{2} \times \frac{1}{2}$ |
| 3        | .80        | 1.25              | 1.75                 | $\frac{1}{2}$         | $2 \times \frac{5}{8}$            |
| 4        | 1.00       |                   |                      | $\frac{5}{8}$         | $2\frac{1}{2} \times \frac{3}{4}$ |
| 5        | 1.25       |                   |                      | $\frac{3}{4}$         | $3 \times \frac{7}{8}$            |
| 6        | 1.50       |                   |                      | $\frac{7}{8}$         | $3\frac{1}{2} \times 1$           |

### Cheek Blocks

GALVANIZED MALLEABLE IRON AND BRONZE

DOUBLE



Fig. 96

| Size No. | Galv. Each | Plain Bronze Each | Polished Bronze Each | For Diam. Rope Inches | Size Sheave Inches                |
|----------|------------|-------------------|----------------------|-----------------------|-----------------------------------|
| 11       | \$ .60     | \$ 1.20           | \$ 1.50              | $\frac{1}{8}$         | $1\frac{3}{8} \times \frac{1}{8}$ |
| 12       | .90        | 1.50              | 1.90                 | $\frac{3}{8}$         | $1\frac{1}{2} \times \frac{1}{2}$ |
| 13       | 1.25       | 2.25              | 3.00                 | $\frac{1}{2}$         | $2 \times \frac{5}{8}$            |

## Deck Blocks

FOR WIRE ROPE

GALVANIZED MALLEABLE IRON AND BRONZE

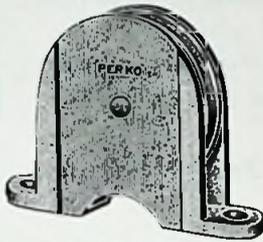


Fig. 139

| Size No. | Galv. Each | Plain Bronze Each | Polished Bronze Each | For Diam. Rope Inches | Size Sheave Inches | Weight Each Pounds |
|----------|------------|-------------------|----------------------|-----------------------|--------------------|--------------------|
| 1        | \$ .60     | \$1.00            | \$1.75               | 1/4 - 1/8             | 1 7/8 x 1 1/8      | 3/8                |
| 2        | 1.10       | 2.00              | 2.75                 | 3/8                   | 3 x 1 1/8          | 1 3/8              |
| 3        | 2.00       | 3.75              | 5.00                 | 1/2                   | 4 x 3/8            | 2 3/4              |
| 3 1/2    | 3.00       |                   |                      | 1/2                   | 4 1/2 x 3/4        | 4 1/4              |
| 4        | 3.50       |                   |                      | 3/8                   | 5 x 1/2            | 5 1/4              |
| 5        | 5.25       |                   |                      | 3/4                   | 6 x 1              | 11                 |

## Wire Rope Pulleys

GALVANIZED MALLEABLE IRON AND BRONZE

SINGLE—SIDE PATTERN



Fig. 194

| Size No. | Galv. Each | Plain Bronze Each | For Diam. Rope Inches | Size Sheave Inches | Weight Each Pounds |
|----------|------------|-------------------|-----------------------|--------------------|--------------------|
| 1        | \$ .50     | \$1.00            | 1/4                   | 2 1/2 x 3/8        | 1/2                |
| 2        | .80        | 1.50              | 1/4                   | 3 1/4 x 1/2        | 1 1/4              |
| 3        | 1.50       | 2.50              | 1/2 - 3/8             | 4 1/2 x 1/2        | 2 3/8              |

## Wire Rope Pulleys

GALVANIZED MALLEABLE IRON AND BRONZE

SINGLE—UPRIGHT PATTERN



Fig. 279

| Size No. | Galv. Each | Plain Bronze Each | For Diam. Rope Inches | Size Sheave Inches | Weight Each Pounds |
|----------|------------|-------------------|-----------------------|--------------------|--------------------|
| 10       | \$ .50     | \$1.00            | 1/4                   | 2 1/2 x 3/8        | 3/8                |
| 20       | .80        | 1.50              | 1/4                   | 3 1/4 x 1/2        | 1 1/2              |
| 30       | 1.50       | 2.50              | 1/2 - 3/8             | 4 1/2 x 1/2        | 2 1/2              |

## Cheek Blocks

FOR WIRE ROPE

GALVANIZED CAST IRON AND BRONZE



Fig. 140

| Size No. | Galv. Each | Plain Bronze Each | Polished Bronze Each | For Diam. Rope Inches | Size Sheave Inches | Weight Each Pounds |
|----------|------------|-------------------|----------------------|-----------------------|--------------------|--------------------|
| 1        | \$ .50     | \$1.00            | \$1.75               | 1/4 - 1/8             | 1 7/8 x 1 1/8      | 3/8                |
| 2        | .70        | 2.00              | 2.75                 | 3/8                   | 3 x 1 1/8          | 1 3/8              |
| 3        | 1.10       | 3.75              | 5.00                 | 1/2                   | 4 x 3/8            | 2 3/4              |
| 3 1/2    | 1.90       |                   |                      | 1/2                   | 4 1/2 x 3/4        | 4 1/4              |
| 4        | 2.40       |                   |                      | 3/8                   | 5 x 1/2            | 5 1/4              |
| 5        | 4.00       |                   |                      | 3/4                   | 6 x 1              | 11                 |

## Wire Rope Pulleys

GALVANIZED MALLEABLE IRON AND BRONZE

DOUBLE—SIDE PATTERN



Fig. 195

| Size No. | Galv. Each | Plain Bronze Each | For Diam. Rope Inches | Size Sheave Inches | Weight Each Pounds |
|----------|------------|-------------------|-----------------------|--------------------|--------------------|
| 11       | \$1.00     | \$1.50            | 1/4                   | 2 1/2 x 3/8        | 1 1/8              |
| 12       | 1.60       | 2.25              | 1/4                   | 3 1/4 x 1/2        | 2                  |
| 13       | 2.50       | 3.50              | 1/2 - 3/8             | 4 1/2 x 1/2        | 4 1/4              |

## Wire Rope Pulleys

GALVANIZED MALLEABLE IRON AND BRONZE

DOUBLE—UPRIGHT PATTERN

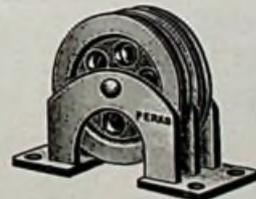


Fig. 280

| Size No. | Galv. Each | Plain Bronze Each | For Diam. Rope Inches | Size Sheave Inches | Weight Each Pounds |
|----------|------------|-------------------|-----------------------|--------------------|--------------------|
| 110      | \$1.00     | \$1.50            | 1/4                   | 2 1/2 x 3/8        | 1 1/8              |
| 120      | 1.60       | 2.25              | 1/4                   | 3 1/4 x 1/2        | 2                  |
| 130      | 2.50       | 3.50              | 1/2 - 3/8             | 4 1/2 x 1/2        | 4 1/4              |

## Polished Bronze Yacht Blocks

MANGANESE BRONZE—PLAIN OR ROLLER BUSHED

Made of high grade manganese bronze, of great tensile strength, yet as light in weight as practicable to insure that strength.

Shells and sheaves are smooth and edges rounded, will not wear or cut rope.

All are furnished with or without becket, and in polished or nickel plated.



Without Becket



With Becket

| Size No. | Size of Sheave Inches             | For Rope Diam. Inches |
|----------|-----------------------------------|-----------------------|
| 0        | $1\frac{1}{8} \times \frac{1}{8}$ | $\frac{1}{8}$         |
| 1        | $1\frac{3}{8} \times \frac{1}{2}$ | $\frac{3}{8}$         |
| 2        | $1\frac{7}{8} \times \frac{3}{4}$ | $\frac{7}{8}$         |

### Front Shackle Block



Fig. 851

| No. | SINGLE            |                    |
|-----|-------------------|--------------------|
|     | Plain Bushed Each | Roller Bushed Each |
| 0   | \$1.30            | \$1.80             |
| 1   | 1.65              | 2.25               |
| 2   | 2.45              | 3.20               |
| No. | DOUBLE            |                    |
|     | Plain Bushed Each | Roller Bushed Each |
| 0   | \$2.15            | \$3.15             |
| 1   | 2.95              | 4.15               |
| 2   | 4.25              | 5.75               |

### Side Shackle Block



Fig. 854

| No. | SINGLE            |                    |
|-----|-------------------|--------------------|
|     | Plain Bushed Each | Roller Bushed Each |
| 0   | \$1.30            | \$1.80             |
| 1   | 1.65              | 2.25               |
| 2   | 2.45              | 3.20               |
| No. | DOUBLE            |                    |
|     | Plain Bushed Each | Roller Bushed Each |
| 0   | \$2.15            | \$3.15             |
| 1   | 2.95              | 4.15               |
| 2   | 4.25              | 5.75               |

### Upset Front Shackle Block



Fig. 852

| No. | SINGLE            |                    |
|-----|-------------------|--------------------|
|     | Plain Bushed Each | Roller Bushed Each |
| 0   | \$1.30            | \$1.80             |
| 1   | 1.65              | 2.25               |
| 2   | 2.45              | 3.20               |
| No. | DOUBLE            |                    |
|     | Plain Bushed Each | Roller Bushed Each |
| 0   | \$2.15            | \$3.15             |
| 1   | 2.95              | 4.15               |
| 2   | 4.25              | 5.75               |

### Upset Side Shackle Block



Fig. 855

| No. | SINGLE            |                    |
|-----|-------------------|--------------------|
|     | Plain Bushed Each | Roller Bushed Each |
| 0   | \$1.30            | \$1.80             |
| 1   | 1.65              | 2.25               |
| 2   | 2.45              | 3.20               |
| No. | DOUBLE            |                    |
|     | Plain Bushed Each | Roller Bushed Each |
| 0   | \$2.15            | \$3.15             |
| 1   | 2.95              | 4.15               |
| 2   | 4.25              | 5.75               |

### Loose Side or Front Hook Block



Fig. 853

| No. | SINGLE            |                    |
|-----|-------------------|--------------------|
|     | Plain Bushed Each | Roller Bushed Each |
| 0   | \$1.30            | \$1.80             |
| 1   | 1.65              | 2.25               |
| 2   | 2.45              | 3.20               |
| No. | DOUBLE            |                    |
|     | Plain Bushed Each | Roller Bushed Each |
| 0   | \$2.15            | \$3.15             |
| 1   | 2.95              | 4.15               |
| 2   | 4.25              | 5.75               |

State whether Side or Front Hook is desired.

### Open Snatch Block



Fig. 856

| No. | SINGLE ONLY       |                    |
|-----|-------------------|--------------------|
|     | Plain Bushed Each | Roller Bushed Each |
| 0   | \$1.55            | \$2.05             |
| 1   | 1.90              | 2.50               |
| 2   | 2.70              | 3.45               |

FOR SIZE OF SHEAVE AND ROPE, REFER TO TOP OF PAGE SPECIFY SINGLE OR DOUBLE, WITH OR WITHOUT BECKET. DEDUCT 10% FOR PLAIN FINISH.



**POLISHED BRONZE YACHT BLOCKS**

**Snap Shackle Block**  
SIDE OR FRONT TYPE

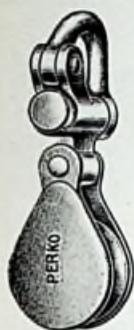


Fig. 857

|     |  | SINGLE            |                    |
|-----|--|-------------------|--------------------|
| No. |  | Plain Bushed Each | Roller Bushed Each |
| 0   |  | \$2.40            | \$2.90             |
| 1   |  | 3.00              | 3.60               |
| 2   |  | 4.20              | 4.95               |
|     |  | DOUBLE            |                    |
| No. |  | Plain Bushed Each | Roller Bushed Each |
| 0   |  | \$3.25            | \$4.25             |
| 1   |  | 4.30              | 5.50               |
| 2   |  | 6.00              | 7.50               |

**Block With Eye Strap**



Fig. 861

|     |  | SINGLE            |                    |
|-----|--|-------------------|--------------------|
| No. |  | Plain Bushed Each | Roller Bushed Each |
| 0   |  | \$1.30            | \$1.80             |
| 1   |  | 1.65              | 2.25               |
| 2   |  | 2.45              | 3.20               |
|     |  | DOUBLE            |                    |
| No. |  | Plain Bushed Each | Roller Bushed Each |
| 0   |  | \$2.15            | \$3.15             |
| 1   |  | 2.95              | 4.15               |
| 2   |  | 4.25              | 5.75               |

**Self Locking Bridle Block**  
FOR PEAK HALYARD



Fig. 858

|     |  | SINGLE ONLY       |                    |
|-----|--|-------------------|--------------------|
| No. |  | Plain Bushed Each | Roller Bushed Each |
| 1   |  | \$3.40            | \$4.00             |
| 2   |  | 4.50              | 5.25               |

Bridle Only see Fig. 877

**Link Deck Leader**



Fig. 862

|     |  | SINGLE            |                    |
|-----|--|-------------------|--------------------|
| No. |  | Plain Bushed Each | Roller Bushed Each |
| 0   |  | \$1.65            | \$2.15             |
| 1   |  | 2.15              | 2.75               |
| 2   |  | 3.20              | 3.95               |
|     |  | DOUBLE            |                    |
| No. |  | Plain Bushed Each | Roller Bushed Each |
| 0   |  | \$2.50            | \$3.50             |
| 1   |  | 3.45              | 4.65               |
| 2   |  | 5.00              | 6.50               |

**Main Sheet Bridle Block**

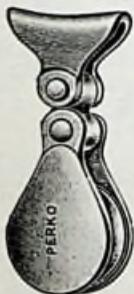


Fig. 859

|     |  | SINGLE ONLY       |                    |
|-----|--|-------------------|--------------------|
| No. |  | Plain Bushed Each | Roller Bushed Each |
| 0   |  | \$1.65            | \$2.15             |
| 1   |  | 2.15              | 2.75               |
| 2   |  | 3.20              | 3.95               |

**Halyard Deck Leader**



Fig. 863

|     |  | SINGLE            |                    |
|-----|--|-------------------|--------------------|
| No. |  | Plain Bushed Each | Roller Bushed Each |
| 0   |  | \$1.55            | \$2.05             |
| 1   |  | 2.00              | 2.60               |
| 2   |  | 2.95              | 3.70               |
|     |  | DOUBLE            |                    |
| No. |  | Plain Bushed Each | Roller Bushed Each |
| 0   |  | \$2.40            | \$3.40             |
| 1   |  | 3.30              | 4.50               |
| 2   |  | 4.75              | 6.25               |

**Peak Halyard Bridle Block**



Fig. 860

|     |  | SINGLE ONLY          |                      |
|-----|--|----------------------|----------------------|
| No. |  | Plain Bushed Each    | Roller Bushed Each   |
| 1   |  | \$3.15               | \$3.75               |
| 2   |  | 4.20                 | 4.95                 |
|     |  | BRIDLE ONLY WITH EYE |                      |
| No. |  | Plain Bronze Each    | Polished Bronze Each |
| 1   |  | \$1.50               | \$1.90               |
| 2   |  | 1.75                 | 2.15                 |

**Swivel Deck Leader**

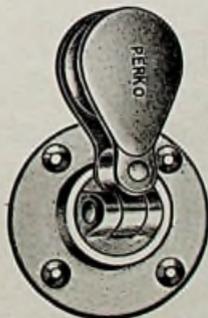


Fig. 864

|     |  | SINGLE            |                    |
|-----|--|-------------------|--------------------|
| No. |  | Plain Bushed Each | Roller Bushed Each |
| 0   |  | \$2.55            | \$3.05             |
| 1   |  | 3.15              | 3.75               |
| 2   |  | 4.20              | 4.95               |
|     |  | DOUBLE            |                    |
| No. |  | Plain Bushed Each | Roller Bushed Each |
| 0   |  | \$3.40            | \$4.40             |
| 1   |  | 4.45              | 5.65               |
| 2   |  | 6.00              | 7.50               |

## BRONZE YACHT BLOCKS AND FITTINGS

### Wide Mortise Blocks POLISHED

FOR JIB SHEETS AND LAZY JACKS

A short block with thick sheave for large rope.

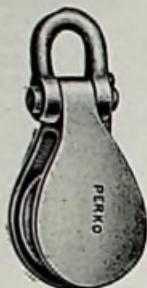


Fig. 865

#### SINGLE ONLY

| No. | For Rope Diam. Inches | Diam. Sheave Inches | Plain Bushed Each |
|-----|-----------------------|---------------------|-------------------|
| 1   | 1/2                   | 1 1/2               | \$3.50            |
| 2   | 3/8                   | 1 3/4               | 4.50              |

Deduct 10% for Plain Finish.

### Cheek Block POLISHED



Fig. 866

#### SINGLE

| No. | Plain Bushed Each | Roller Bushed Each |
|-----|-------------------|--------------------|
| 0   | \$1.30            | \$1.80             |
| 1   | 1.65              | 2.25               |
| 2   | 2.45              | 3.20               |

#### DOUBLE

| No. | Plain Bushed Each | Roller Bushed Each |
|-----|-------------------|--------------------|
| 0   | \$2.15            | \$3.15             |
| 1   | 2.95              | 4.15               |
| 2   | 4.25              | 5.75               |

Deduct 10% for Plain Finish.

### Bullet Blocks

FOR JIB SHEETS AND LEADERS  
SINGLE ONLY



Fig. 869

| No. | For Rope Diam. Inches | Size Sheave Inches |
|-----|-----------------------|--------------------|
| 0   | 5/16                  | 3/4 x 1 1/8        |
| 1   | 3/8                   | 7/8 x 1 1/2        |
| 2   | 7/16                  | 1 1/8 x 3/4        |
| 3   | 1/2                   | 1 1/4 x 5/8        |

| No. | Polished Bronze Each |
|-----|----------------------|
| 0   | \$.55                |
| 1   | .70                  |
| 2   | .85                  |
| 3   | 1.10                 |

Deduct 10% for Plain Finish.

### Bullet Blocks On Snap Shackle

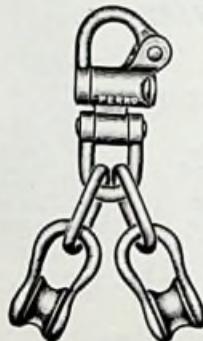


Fig. 870

FOR JIB SHEETS

| No. | For Rope Diam. Inches | Lgth. Snap Shackle Inches |
|-----|-----------------------|---------------------------|
| 0   | 5/16                  | 2 5/8                     |
| 1   | 3/8                   | 3 1/4                     |

| No. | Polished Bronze Per Set |
|-----|-------------------------|
| 0   | \$3.50                  |
| 1   | 4.00                    |

Deduct 10% for Plain Finish.

### Improved Centerboard Block POLISHED

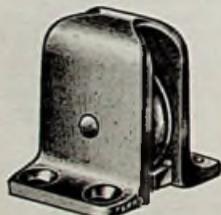


Fig. 867

#### SINGLE ONLY

| No. | Plain Bushed Each |
|-----|-------------------|
| 0   | \$1.30            |
| 1   | 1.65              |
| 2   | 2.45              |

Deduct 10% for Plain Finish.



Fig. 871

With spring pin so sail can be put on or taken off easily.

| No. | Price Each | For Width Rolled Track Inches | Length Overall Inches |
|-----|------------|-------------------------------|-----------------------|
| 1   | \$2.50     | 5/8                           | 5                     |
| 2   | 3.50       | 7/8                           | 5 1/2                 |

### Clew Outhaul Slides MANGANESE BRONZE—PLAIN



Fig. 872

No. 1 size is furnished with nickel silver rolled track like Fig. 99.

No. 2 and 3 sizes are furnished with heavy cast bronze track as illustrated.

No. 3 size has a sheave for wire instead of groove.

| No. | Plain Bronze Each | Width Track Inches | Lgth. Track Inches |
|-----|-------------------|--------------------|--------------------|
| 1   | \$2.25            | 5/8                | 15                 |
| 2   | 3.50              | 3/4                | 13                 |
| 3   | 6.50              | 7/8                | 15                 |

### Open Lead Blocks

FOR GENOA JIB SHEETS



Fig. 868

| No. | For Rope Diam. Inches | Size Sheave Inches |
|-----|-----------------------|--------------------|
| 1   | 3/8                   | 7/8 x 1 1/2        |
| 2   | 1/2                   | 1 1/4 x 3/8        |

| No. | Polished Bronze Each |
|-----|----------------------|
| 1   | \$1.75               |
| 2   | 2.50                 |

Deduct 10% for Plain Finish.

## BRONZE YACHT FITTINGS

### Fast Eye Snap Shackle

MANGANESE BRONZE—PLAIN



Fig. 873

For Balloon Jib, Spinnaker, Halyards and Sheets.

| No. | Price Each | For Rope Diam. Inches | Lgth. Over-all Inches | Width Opening Inches |
|-----|------------|-----------------------|-----------------------|----------------------|
| 0   | \$ .90     | 1/4                   | 2 1/8                 | 5/8                  |
| 1   | 1.15       | 5/16 - 3/8            | 2 5/8                 | 3/4                  |
| 2   | 1.50       | 7/16 - 1/2            | 3 1/8                 | 7/8                  |

### Boom Plate Travelers

MANGANESE BRONZE—PLAIN



Fig. 878

| Diam. Boom | Price Each | Width of Plate Inches |
|------------|------------|-----------------------|
| 2          | \$ .80     | 1 1/4                 |
| 2 1/2      | .90        | 1 1/2                 |
| 3          | 1.10       | 1 7/8                 |

### Rigging Cleats

MANGANESE BRONZE—PLAIN



Fig. 879

| No. | Price Each | For Diam. Mast Inches | Size Overall Inches |
|-----|------------|-----------------------|---------------------|
| 1   | \$ .40     | 2 1/2                 | 2 1/2 x 1 1/4       |
| 2   | .45        | 3                     | 3 3/8 x 1 3/8       |
| 3   | .55        | 4                     | 4 x 1 7/8           |

### Swivel Eye Snap Shackle

MANGANESE BRONZE—PLAIN

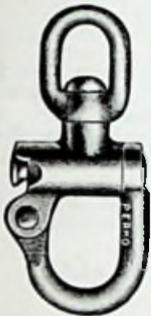


Fig. 874

For Ballon Jib, Spinnaker, Halyards and Sheets.

| No. | Price Each | For Rope Diam. Inches | Lgth. Over-all Inches | Width Opening Inches |
|-----|------------|-----------------------|-----------------------|----------------------|
| 0   | \$1.50     | 1/4                   | 2 5/8                 | 5/8                  |
| 1   | 2.00       | 5/16 - 3/8            | 3 3/4                 | 3/4                  |
| 2   | 2.75       | 7/16 - 1/2            | 4 1/2                 | 7/8                  |

### Headboard Snap Shackle

MANGANESE BRONZE—PLAIN

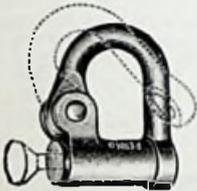


Fig. 875

For attaching Main Halyards to Headboard.

| No. | Price Each | Length Overall Inches | Width Opening Inches |
|-----|------------|-----------------------|----------------------|
| 1   | \$1.10     | 2                     | 3/4                  |
| 2   | 1.40       | 2 1/2                 | 7/8                  |

### Eye Plates

MANGANESE BRONZE



Fig. 880

| No. | Length Plate Inches | Opening of Eye Inches | Stock in Eye Inches |
|-----|---------------------|-----------------------|---------------------|
| 1   | 3 1/8               | 7/8 x 3/4             | 1 1/8               |
| 2   | 3 1/2               | 1/2 x 7/8             | 1 1/4               |
| 3   | 4 1/8               | 5/8 x 1 1/8           | 1 3/8               |

### Improved Headboard Snap Shackle

MANGANESE BRONZE—PLAIN



Fig. 876

For attaching Main Halyards to Headboard.

| No. | Price Each | Length Overall Inches | Width Opening Inches |
|-----|------------|-----------------------|----------------------|
| 1   | \$1.40     | 2 1/4                 | 3/4                  |
| 2   | 1.75       | 3                     | 7/8                  |

### Eye Straps

MANGANESE BRONZE



Fig. 881

| No. | Length Inches | Size Eye Inches | Stock in Eye Inches |
|-----|---------------|-----------------|---------------------|
| 0   | 2             | 1/8             | 1/8                 |
| 1   | 2 1/4         | 3/8             | 1/4                 |
| 2   | 2 3/4         | 1/2             | 5/8                 |
| 3   | 3 1/8         | 5/8             | 1 1/8               |

| No. | Plain Each | Polished Each |
|-----|------------|---------------|
| 0   | \$ .22     | \$ .35        |
| 1   | .28        | .45           |
| 2   | .35        | .55           |
| 3   | .45        | .65           |

### Self Locking Bridles

MANGANESE BRONZE—PLAIN

FOR PEAK HALYARD BLOCKS



Fig. 877

| No. | Price Each | For Wire Size Inches | Size Opening For Block Inches |
|-----|------------|----------------------|-------------------------------|
| 1   | \$1.25     | 1/4                  | 3/8                           |
| 2   | 1.50       | 5/16                 | 1/2                           |
| 3   | 1.80       | 3/8                  | 5/8                           |

### Deck Straps

MANGANESE BRONZE



Fig. 882

| No. | Plain Each | Polished Each | Length Inches | Size Eye Inches | Stock in Eye Inches |
|-----|------------|---------------|---------------|-----------------|---------------------|
| 1   | \$ .40     | \$ .50        | 3 1/2         | 1/2             | 1/8                 |
| 2   | .50        | .60           | 4 1/4         | 5/8             | 3/8                 |
| 3   | .60        | .75           | 4 3/4         | 3/4             | 1/2                 |

## BRONZE YACHT FITTINGS

### Single Flare Lip Leaders

CAST BRONZE



Fig. 764

| No. | Plain Each | Polished Each | Small Opening Inches |
|-----|------------|---------------|----------------------|
| 1   | \$ .15     | \$ .30        | 1/2                  |
| 2   | .20        | .40           | 3/8                  |

### Bronze Block Shackles

MANGANESE BRONZE

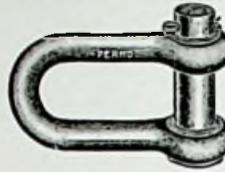


Fig. 893

| No. | Size Inches | Plain Each | Polished Each |
|-----|-------------|------------|---------------|
| 0   | 3/8         | \$ .35     | \$ .50        |
| 1   | 1/4         | .40        | .55           |
| 2   | 3/8         | .50        | .65           |
| 3   | 1/2         | .60        | .85           |

### Double Flare Lip Leaders

CAST BRONZE



Fig. 889

| No. | Plain Each | Polished Each | Opening Inches |
|-----|------------|---------------|----------------|
| 0   | \$ .25     | \$ .35        | 3/8            |
| 1   | .30        | .40           | 1/2            |
| 2   | .40        | .50           | 3/4            |

### Automatic Jam Cleats

CAST BRONZE—POLISHED

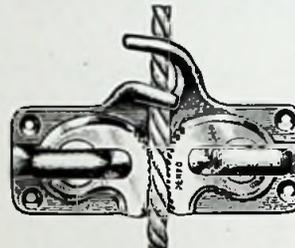


Fig. 895

An exceptionally strong and positive grip, can be operated at some distance from cleat, a jerk on the rope releases it. Open guide for leading rope, takes rope from 3/8 to 1/2 inch diameter inclusive.

Price Each \$4.00

### Masthead Trucks

LIGNUMVITAE



Fig. 891

| Diam. Inches | Two Holes Each | One Sheave Each | Two Sheaves Each |
|--------------|----------------|-----------------|------------------|
| 2            | \$ .72         | \$ .90          | \$1.20           |
| 2 1/2        | .72            | .90             | 1.20             |
| 3            | .72            | .90             | 1.20             |
| 3 1/2        | .80            | 1.05            | 1.40             |
| 4            | 1.00           | 1.25            | 1.70             |
| 4 1/2        | 1.15           | 1.50            | 1.95             |
| 5            | 1.35           | 1.80            | 2.30             |
| 5 1/2        | 1.60           | 2.10            | 2.70             |
| 6            | 1.95           | 2.40            | 3.10             |

### Racing Jam Cleats

CAST BRONZE



Fig. 762

| Length Inches | For Size Rope Inches | Polished Bronze Each |
|---------------|----------------------|----------------------|
| 3 1/2         | 1/4                  | \$1.50               |
| 4             | 3/8                  | 1.60                 |
| 6             | 1/2                  | 2.00                 |

### Masthead Sheaves

FOR MANILA ROPE

CAST BRONZE—PLAIN BEARING



Fig. 892

| Diam. Inches | Price Each | For Diam. Rope Inches | Thickness Inches | Bearing Inches |
|--------------|------------|-----------------------|------------------|----------------|
| 1 3/4        | \$ .50     | 1/4                   | 3/8              | 1/8            |
| 2            | .65        | 1/4                   | 1/2              | 1/8            |
| 2 1/4        | .80        | 3/8                   | 1/2              | 3/8            |

### Double Jam Cleats

CAST BRONZE—POLISHED



Fig. 1030

| No. | Price Each | Length Inches | Width Inches |
|-----|------------|---------------|--------------|
| 1   | \$ .80     | 4             | 1/2          |
| 2   | 1.20       | 5             | 3/8          |

### Jib Snap Hooks

CAST BRONZE

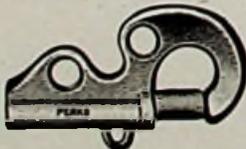


Fig. 1037

A very strong, quick acting Snap. Has two holes for fastening to luff rope of jib. Brings the sail close to the stay.

| No. | Plain Each | For Size Stay Inches | For Size Luff Rope Inches |
|-----|------------|----------------------|---------------------------|
| 1   | \$ .40     | 3/8 or 1/4           | 1/4                       |
| 2   | .60        | 1/2                  | 3/8                       |

### Roller Jam Cleats

CAST BRONZE



Fig. 894

No. 1 Size is ideal for Snipes, Moths, Comets, etc. No. 2 Size for Star Class and other Sail Boats of like size.

| No. | Polished Bronze Each | For diam. Rope Inches | Extreme Length Inches |
|-----|----------------------|-----------------------|-----------------------|
| 1   | \$1.20               | 1/8 to 1/4            | 4                     |
| 2   | 1.40                 | 1/4 to 3/8            | 5 1/4                 |



### Bronze Rigging Turnbuckles

MANGANESE BRONZE

With Stiff Jaw Ends—S. A. E. Threads



Fig. 932

| Size Inches | Plain Each | Polished Each | Length Inches Pin to Pin of Stiff Jaws |        | Jaw Opening Inches | Suitable Airplane Wire Rope Inches |
|-------------|------------|---------------|--|--------|--------------------|------------------------------------|
|             |            |               | Closed                                 | Opened |                    |                                    |
| 1/4         | \$2.50     | \$3.00        | 7 1/8                                  | 10 3/8 | Both 1/4           | 1/8                                |
| 5/16        | 2.75       | 3.30          | 7 7/8                                  | 11 3/8 | Both 5/16          | 3/16                               |
| 3/8         | 3.25       | 3.90          | 9                                      | 12 3/4 | Both 3/8           | 1/4                                |
| 7/16        | 3.75       | 4.50          | 10                                     | 14 1/4 | 1/10 - 1/10        | 1/4                                |
| 1/2         | 4.60       | 5.50          | 11 1/2                                 | 16 1/2 | 1/2 - 3/8          | 3/8                                |

Prices do not include toggle.

### Bronze Rigging Turnbuckles

WITH JAW AND SNAP SHACKLE

MANGANESE BRONZE—S. A. E. THREADS



Fig. 1029

| Size Inches | Plain Each | Polished Each | Takeup Inches | Length Open Inches | Jaw Opening Inches | Shackle Opening Inches |
|-------------|------------|---------------|---------------|--------------------|--------------------|------------------------|
|             |            |               |               |                    |                    |                        |
| 5/16        | 5.00       | 5.50          | 4             | 12 3/4             | 5/16               | 3/8                    |
| 3/8         | 5.50       | 6.50          | 4 1/8         | 13 3/4             | 3/8                | 3/4                    |
| 7/16        | 6.25       | 7.25          | 4 3/8         | 14 3/8             | 7/16               | 3/4                    |
| 1/2         | 7.25       | 8.25          | 4 3/4         | 16 1/2             | 1/2                | 7/8                    |

### Bronze Turnbuckles

MANGANESE BRONZE—SLOTTED PATTERN POLISHED—FOR YACHT RIGGING



Fig. 397

| Diam. Thread Inches | Jaw or Jaw & Eye Each | Length Sleeve Inches | Overall Length Closed Inches | Inside Diam. Eye Inches | Width Jaw Inside Inches |
|---------------------|-----------------------|----------------------|------------------------------|-------------------------|-------------------------|
|                     |                       |                      |                              |                         |                         |
| 5/16                | 3.25                  | 4 3/4                | 7 3/8                        | 1/8                     | 1/4 & 1/8               |
| 3/8                 | 3.75                  | 4 7/8                | 8 1/4                        | 1/8                     | 1/8 & 1/2               |
| 1/2                 | 4.75                  | 6                    | 10 1/4                       | 3/8                     | 3/8 & 5/8               |
| 5/8                 | 5.50                  | 8 1/8                | 12 3/8                       | 3/4                     | 3/8 & 3/4               |
| 3/4                 | 6.50                  | 8 3/8                | 13                           | 7/8                     | 1/2 & 7/8               |

In Jaw and Eye Turnbuckles the narrow jaw end fitting is supplied. Jaw and Jaw Turnbuckles, one narrow and one wide jaw end fitting is supplied.

### Rigging Turnbuckles

DROP FORGED BRONZE WELDLESS—S. A. E. THREADS WITH LOCK NUTS—HEXAGON BODY



Fig. 1028

Of great tensile strength far beyond that of cast bronze. The body and end fittings are drop forged from a solid bar of high grade bronze.

This type body is not only the most practical but also the most attractive in the rigging of fine boats especially when polished. It is also far stronger than the open body for obvious reasons. Another feature is its ability to retain grease around the threads.

| Size Thread Inches | Plain Each | Polished Each | Length Pin to pin of Jaws |               | Jaw Opening Inches |
|--------------------|------------|---------------|---------------------------|---------------|--------------------|
|                    |            |               | Closed Inches             | Opened Inches |                    |
| 1/4                | \$2.50     | \$3.00        | 6 3/8                     | 9 3/8         | 1/4                |
| 5/16               | 2.75       | 3.30          | 7 1/4                     | 10 3/8        | 5/16               |
| 3/8                | 3.25       | 3.90          | 8 1/4                     | 11 3/8        | 3/8                |
| 1/2                | 4.60       | 5.50          | 10 1/4                    | 14 1/2        | 1/2                |
| 5/8                | 6.50       | 7.80          | 12 3/4                    | 17 3/8        | 3/8                |

### Toggles for Turnbuckles

MANGANESE BRONZE—POLISHED



Fig. 1033

| No. | Price Each | For turnbuckle Inches | Width Between jaws Inches |
|-----|------------|-----------------------|---------------------------|
|     |            |                       |                           |
| 2   | .75        | 5/16                  | 3/8                       |
| 3   | 1.00       | 3/8                   | 3/8                       |
| 4   | 1.10       | 7/16                  | 1/2                       |
| 5   | 1.25       | 1/2                   | 1/2                       |

### Solid Wire Rope Thimbles

MANGANESE BRONZE—POLISHED



Fig. 929

| For Size Rope Inches | Price Each | Thick-ness Inches | For Turnbuckle Inches |
|----------------------|------------|-------------------|-----------------------|
| 1/8                  | \$ .25     | 1/8               | 1/4                   |
| 5/16                 | .30        | 3/16              | 3/8                   |
| 1/4                  | .35        | 1/4               | 3/8                   |
| 5/16                 | .40        | 1/4               | 1/2                   |
| 3/8                  | .45        | 1/4               | 1/2                   |
| 1/2                  | .50        | 1/2               | 3/8                   |

### Bronze Wire Rope Thimbles

WROUGHT BRONZE—DIPPED



Fig. 930

| For Size Rope Inches | Price Each |
|----------------------|------------|
| 1/8                  | \$ .15     |
| 5/16                 | .15        |
| 1/4                  | .20        |
| 5/16                 | .25        |
| 3/8                  | .35        |
| 1/2                  | .45        |
| 5/8                  | .50        |
| 3/4                  | .70        |

For dimensions refer to Fig. 466, Page 137.

### Bronze Gooseneck Bands

MANGANESE BRONZE—PLAIN

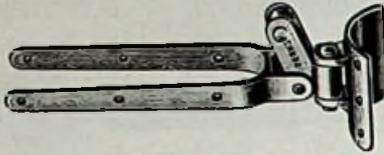


Fig. 883

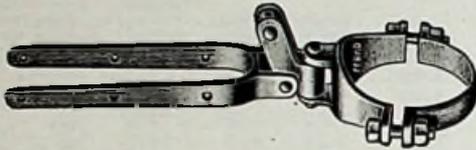


Fig. 884

Boom straps are measured from outside to outside of straps, as they are mortised into the side of the boom so as to be flush with the boom surface.

| No. | Mast Diam. Inches | Diam. Boom End Inches | Fig. 883 Each | Fig. 884 Each |
|-----|-------------------|-----------------------|---------------|---------------|
| 1   | 3 1/4 to 3 1/2    | 1 3/4                 | \$3.50        | \$5.00        |
| 2   | 4 to 4 1/2        | 2 1/2                 | 3.50          | 5.00          |

### Bronze Gooseneck Band

WITH FLAT PLATE FOR SQUARE OR T MASTS

MANGANESE BRONZE—PLAIN

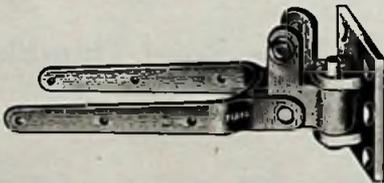


Fig. 1034

The trend in design for masts is changing from the old style round mast to the modern square, rectangular or T shaped mast, hence a gooseneck with a flat plate is necessary.

| No. | Price Each | Width of Plate Inches | Length of Plate Inches | Diameter Boom end Inches |
|-----|------------|-----------------------|------------------------|--------------------------|
| 1   | \$3.50     | 2                     | 3                      | 1 3/4                    |
| 2   | 3.50       | 3                     | 4                      | 2                        |

### Gooseneck Bands

GALVANIZED DROP FORGED STEEL

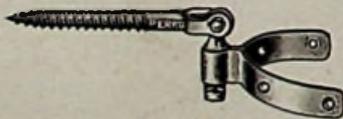


Fig. 886

| For Size Mast Inches | Weight Each Pounds | For Size Mast Inches | Weight Each Lbs. |
|----------------------|--------------------|----------------------|------------------|
| 2 1/2                | \$2.70             | 3 1/2                | \$2.90           |
| 3                    | 2.70               | 4                    | 3.50             |

### Adjustable Gooseneck Bands

GALVANIZED DROP FORGED STEEL

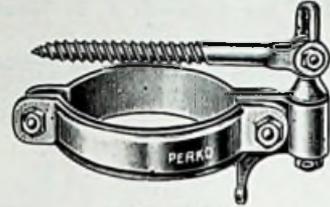


Fig. 885

| Inside Diam. of Band Inches | Without Belaying Pin Holes Each | With Four Belaying Pin Holes Each | Diam. of Screw Inches |
|-----------------------------|---------------------------------|-----------------------------------|-----------------------|
| 3                           | \$2.90                          | \$ 8.00                           | 7/16                  |
| 3 1/2                       | 3.25                            | 8.75                              | 1/8                   |
| 4                           | 3.85                            | 9.80                              | 1/2                   |
| 4 1/2                       | 4.20                            | 11.00                             | 1/2                   |

Larger sizes made to order.

Prices do not include belaying pins. Furnished without belaying pin holes unless otherwise specified.

### Jib Club Fittings

MANGANESE BRONZE—PLAIN



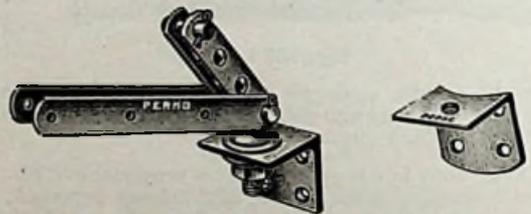
Fig. 887

Allows club to be easily removed from jib stay.

| No. | For Diam. Club Inches | Price Each |
|-----|-----------------------|------------|
| 1   | 1 1/2                 | \$2.75     |
| 2   | 1 3/4                 | 3.00       |
| 3   | 2                     | 3.50       |

### "Snipe" Boom Fittings

BRASS STRAPS—BRONZE MAST PLATE



With Plate for Square Mast Plate for Round Mast

Fig. 888

| Plain Brass Each | Polished Brass Each | Width Plate Inches | For Boom Inches | Weight Each Pounds |
|------------------|---------------------|--------------------|-----------------|--------------------|
| \$2.25           | \$3.00              | 2                  | 1 to 1 1/2      | 1 1/2              |

When ordering, specify whether for square or round mast.



**Tubular Spreaders**  
BRASS TUBE—BRONZE FITTINGS



Fig. 1031

Made of seamless brass tubing with cast bronze fittings both ends, the mast plate has an integral projecting lip serving the purpose of a shoulder cleat for stays. Very strong but light in weight.

| No. | Plain Per Pair | Length Inches | Diam. Inches | Size of Mast Plate Inches | Weight Per Pair Pounds |
|-----|----------------|---------------|--------------|---------------------------|------------------------|
| 1   | \$4.50         | 17 1/2        | 1/2          | 1 3/4 x 1 3/4             | 3/4                    |
| 2   | 5.50           | 21 1/2        | 5/8          | 1 3/4 x 1 3/4             | 1                      |
| 3   | 6.50           | 28            | 5/8          | 1 3/4 x 1 3/4             | 1 1/4                  |

**Head and Jibstay Fittings**  
CAST BRONZE—PLAIN

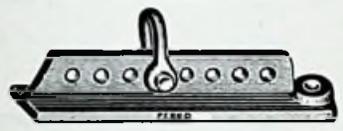


Fig. 1032

For allowing various adjustments of head and jibstays, has an angular hole for lag screw in forward end for fastening to stem.

| No. | Price Each | Length Inches | Width Inches | Number of Holes | Weight Each Ounces |
|-----|------------|---------------|--------------|-----------------|--------------------|
| 1   | \$1.75     | 5             | 1 1/2        | 5               | 12                 |
| 2   | 2.00       | 7 3/4         | 1 3/4        | 8               | 28                 |

**"Snipe" Stay Tangs**  
ALL BRASS



SINGLE  
Fig. 47



DOUBLE  
Fig. 57

Commonly used for attaching standing rigging to mast on snipe and similar classes of sail boats.

| Fig. No. | Plain Brass Each | Pol. Brass Each | For Diam. Rope Inches | Dim. Straps Inches | Diam. Bolt Inches | For Wood Thickness Inches | Wt. Lbs. |
|----------|------------------|-----------------|-----------------------|--------------------|-------------------|---------------------------|----------|
| 47       | \$.60            | \$.75           | 1/8                   | 3/4 x 4            | 1/4               | 2                         | 1/8      |
| 57       | 1.00             | 1.25            | 3/16                  | 3/4 x 4            | 1/4               | 2 1/8                     | 1/4      |

**"Snipe" Chain Plates**  
BRASS



Fig. 143

| Plain Each | Polished Each | Size Inches      | Weight Ounces |
|------------|---------------|------------------|---------------|
| \$.70      | \$.90         | 10 1/2 x 1 x 1/8 | 6             |

**Mast Track and Slides**

NICKEL SILVER

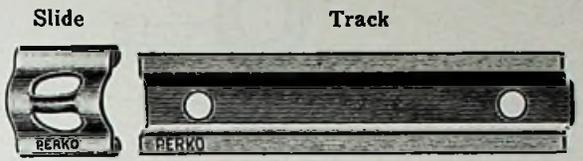


Fig. 98

Fig. 99

| Width Track Inches | Slides Price Each | Track Price Per Foot |
|--------------------|-------------------|----------------------|
| 3/8                | \$.09             | \$.16                |
| 1/2                | .14               | .20                  |

"Perko" slides will fit any make of track of corresponding design and size.

Stock lengths of track are 8 and 10 feet. All orders will be filled with lengths available to make up total number of feet ordered.

**Sail Slides with Thimble**

NICKEL SILVER SLIDE—BRASS THIMBLE

Our standard Fig. 98 Sail Slide with a brass sail thimble attached.



Fig. 1036

| For width of track Inches | Price Each Complete | Diam. of Thimble Inches | Score of Thimble Inches |
|---------------------------|---------------------|-------------------------|-------------------------|
| 3/8                       | \$.15               | 1/2                     | 3/16                    |
| 1/2                       | .20                 | 5/8                     | 1/4                     |

**Release Hooks**

MANGANESE BRONZE



Fig. 890

| No. | Length Closed Inches | Size Opening Inches | Size Eye Inches |
|-----|----------------------|---------------------|-----------------|
| 1   | 4                    | 1/2                 | 1/2 x 3/8       |
| 2   | 5 1/2                | 3/8                 | 5/8 x 3/8       |

| No. | Plain Each | Polished Each |
|-----|------------|---------------|
| 1   | \$1.10     | \$1.30        |
| 2   | 1.40       | 1.60          |

**Centerboard Hoisting Strap**  
FOR "SNIPE" PIVOT TYPE CENTERBOARDS

GALVANIZED

Required only when Pivot Type Centerboards are used on "Snipe" class sail boats.



Fig. 212

| Price Each | Length Inches | Width Opening Inches | Size Holes Inches |
|------------|---------------|----------------------|-------------------|
| \$.30      | 2 1/2         | 3/8                  | 3/8               |



**Screw Eye on Plate**  
CAST BRONZE

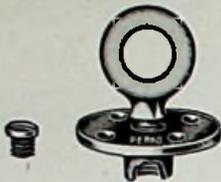


Fig. 1035

Furnished with a flush plug to screw in place when eye is removed.

For all leader blocks and other items requiring easy removal from deck.

| No. | Polished Each Complete | Inside Diam. Eye Inches | Diam. Thread Inches | Diam. Plate Inches |
|-----|------------------------|-------------------------|---------------------|--------------------|
| 1   | \$2.00                 | 3/4                     | 1/2                 | 2 7/8              |
| 2   | 2.25                   | 1                       | 1/2                 | 2 1/2              |

**Gaff Topsail Hooks**

GALVANIZED MALLEABLE IRON  
COLEMAN PATTERN

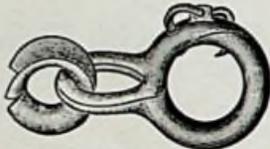


Fig. 931

| Size Inches | Price Each | Est. Wt. Each In Lbs. | Size Inches | Price Each | Est. Wt. Each In Lbs. |
|-------------|------------|-----------------------|-------------|------------|-----------------------|
| 1/4         | \$0.45     | 1/4                   | 1/2         | \$1.00     | 3/4                   |
| 5/8         | .50        | 5/8                   | 5/8         | 1.60       | 1 1/4                 |
| 3/4         | .70        | 3/4                   | 3/4         | 2.70       | 2 1/2                 |
| 7/8         | .85        | 7/8                   |             |            |                       |

Sizes larger than 3/4" furnished on application

**Centerboard Blocks**

GALV. MALLEABLE IRON AND BRONZE



Fig. 827

| No. | Galvanized Each | Plain Bronze Each | Polished Bronze Each | Size Rope Inches | Size Sheave Inches |
|-----|-----------------|-------------------|----------------------|------------------|--------------------|
| 1   | \$ .75          | \$1.25            | \$1.75               | 3/8              | 1 1/2 x 1/2        |
| 2   | 1.50            | 2.50              | 3.00                 | 1/2              | 2 x 5/8            |

**Bronze Deck Travelers**  
WITH PLATES TO SCREW TO DECK



Fig. 896

| Diam. Slide Inches | Length Each | Plain Each | Polished Each |
|--------------------|-------------|------------|---------------|
| 3/8                | 24          | \$3.50     | \$4.20        |
| 1/2                | 24          | 4.75       | 5.50          |

OTHER SIZES MADE TO ORDER

**Foot Rope Plates**

GALVANIZED DROP FORGED STEEL  
AND BRONZE

For Foot Ropes or Bowsprit Shrouds



Fig. 568

| Length Under Eye Inches | Galv. Each | Plain Bronze Each | Polished Bronze Each | Size Iron Inches | Size Eye Inches |
|-------------------------|------------|-------------------|----------------------|------------------|-----------------|
| 3                       | \$ .40     | \$1.00            | \$1.45               | 3/4 x 1/8        | 1/2             |
| 4                       | .50        | 1.10              | 1.55                 | 7/8 x 1/8        | 3/8             |
| 5                       | .60        | 1.25              | 1.70                 | 1 x 1/4          | 3/4             |
| 6                       | .75        | 1.50              | 1.95                 | 1 1/8 x 1/4      | 7/8             |
| 8                       | 1.00       | 1.70              | 2.30                 | 1 1/4 x 1/4      | 7/8             |
| 10                      | 1.50       | 2.10              | 2.90                 | 1 1/4 x 3/8      | 1               |

Fitted for Shackle when desired. Larger sizes made to order.

**Chain Plates**

GALVANIZED DROP FORGED STEEL  
AND BRONZE



Fig. 569

| Length Under Eye Inches | Galv. Each | Plain Bronze Each | Polished Bronze Each | Size of Plate Inches |
|-------------------------|------------|-------------------|----------------------|----------------------|
| 4                       | \$ .30     | \$ .95            | \$1.30               | 3/4 x 1/8            |
| 5                       | .35        | 1.10              | 1.45                 | 7/8 x 1/8            |
| 6                       | .40        | 1.20              | 1.55                 | 1 x 1/8              |
| 8                       | .50        | 1.45              | 1.90                 | 1 1/8 x 1/8          |
| 10                      | .75        | 1.80              | 2.40                 | 1 1/4 x 1/4          |
| 12                      | 1.00       | 2.20              | 2.90                 | 1 1/4 x 1/4          |
| 14                      | 1.50       | 3.20              | 4.30                 | 1 1/2 x 1/4          |
| 16                      | 1.75       | 4.30              | 6.00                 | 1 1/2 x 3/8          |
| 18                      | 2.00       | 6.00              | 8.00                 | 1 3/4 x 3/8          |
| 20                      | 2.50       |                   |                      | 1 3/4 x 3/8          |

Any size made to order.

**Bronze Deck Travelers**

TO BOLT THROUGH DECK

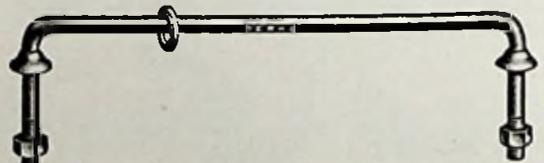


Fig. 933

| Diameter of Rod Inches | Length of Rod Inches | Height Between Deck and Traveler Inches | Polished Each |
|------------------------|----------------------|---|---------------|
| 3/8                    | 12                   | 1 1/2                                   | \$3.20        |
| 3/8                    | 18                   | 1 1/2                                   | 3.50          |
| 1/2                    | 12                   | 2                                       | 4.00          |
| 1/2                    | 18                   | 2                                       | 5.00          |
| 1/2                    | 24                   | 2                                       | 6.00          |
| 1/2                    | 30                   | 2                                       | 7.00          |
| 5/8                    | 18                   | 2                                       | 8.00          |
| 5/8                    | 24                   | 2                                       | 8.75          |
| 5/8                    | 30                   | 2                                       | 9.50          |
| 5/8                    | 36                   | 2                                       | 10.25         |





## "KORODLESS" STAINLESS STEEL WIRE RIGGING

The greater strength of Korodless permits the use of smaller diameters, thus very materially cutting down both weight and wind resistance.

**KORODLESS RIGGING IS:** Over three times as strong as bronze or galvanized iron.  
Over two times as strong as phosphor bronze or monel metal.  
Over 1½ times as strong as cast steel.

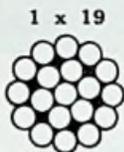


Fig. 1022

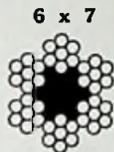


Fig. 1023

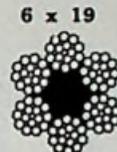


Fig. 1024

| Diam. Inches | Approx. Breaking Strength Pounds | Price Per foot | Approx. Breaking Strength Pounds | Price Per foot | Approx. Breaking Strength Pounds | Price Per foot |
|--------------|----------------------------------|----------------|----------------------------------|----------------|----------------------------------|----------------|
| 3/32         | 1,200                            | \$ .09         | 800                              | \$ .09         |                                  |                |
| 1/8          | 2,100                            | .11            | 1,400                            | .11            | 1,500                            | \$ .17         |
| 3/16         | 3,300                            | .13            | 2,100                            | .13            | 2,300                            | .20            |
| 1/4          | 4,700                            | .17            | 3,000                            | .15            | 3,200                            | .22            |
| 5/16         | 6,300                            | .20            | 4,000                            | .17            | 4,300                            | .26            |
| 3/8          | 8,200                            | .23            | 5,200                            | .19            | 5,600                            | .29            |
| 7/16         | 10,300                           | .27            | 6,600                            | .23            | 7,000                            | .32            |
| 1/2          | 12,500                           | .30            | 8,000                            | .26            | 8,600                            | .34            |
| 5/8          | 17,600                           | .40            | 11,500                           | .33            | 12,200                           | .42            |
| 3/4          | 23,400                           | .53            | 15,400                           | .45            | 16,400                           | .53            |
| 7/8          | 29,700                           | .67            | 19,800                           | .56            | 21,200                           | .68            |
| 1            | 44,000                           | .92            | 30,300                           | .83            | 32,600                           | .86            |

For 6 x 37 construction, add 20% to 6 x 19 list prices. For 8 x 19 construction, add 20% to 6 x 19 list prices.

**1 x 19 STANDING RIGGING**—This construction has the greatest strength—least stretch—and is the stiffest type of rigging. It is more difficult to splice than 6 x 7 but an experienced rigger can make satisfactory splices.

**6 x 7 STANDING RIGGING**—This is the most commonly used type. It is more easily spliced than any other type but this construction is not as strong as other types of Korodless standing rigging.

**6 x 19 RUNNING RIGGING**—This is the most generally used construction where flexibility is desired (halyards, tiller ropes, etc). While not so flexible as the ropes having a multiplicity of very fine wires it is much stronger and more durable.

### Stainless Steel Thimbles

POLISHED



Fig. 1025

| For diam. Rope Inches | Price Each | Length Overall Inches | Width Inside Inches |
|-----------------------|------------|-----------------------|---------------------|
| 1/8                   | \$ .15     | 1 1/2                 | 3/8                 |
| 3/16                  | .20        | 1 1/2                 | 5/8                 |
| 1/4                   | .25        | 1 13/16               | 3/4                 |
| 5/16                  | .30        | 2 1/8                 | 1 1/8               |
| 3/8                   | .35        | 2 3/8                 | 1                   |
| 7/16                  | .55        | 2 3/8                 | 1 1/8               |
| 1/2                   | .70        | 2 3/4                 | 1 1/2               |

### Stainless Steel Shackles

DROP FORGED

SCREW PIN ANCHOR TYPE

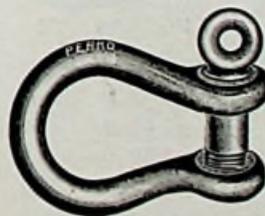


Fig. 1027

### Stainless Steel Turnbuckles

WITH JAW ENDS—S. A. E. THREADS

POLISHED



Fig. 1026

| Size Inches | Each    | Length Closed Inches | Length Pin to Pin Open Inches | Jaw Opening Inches | Pickled Finish (Not polished) Each | Polished Each | Length Inside Inches | Between Eyes Inches |
|-------------|---------|----------------------|-------------------------------|--------------------|------------------------------------|---------------|----------------------|---------------------|
| 1/8         | \$ 6.00 | 7 1/4                | 11                            | 1/8                | \$1.30                             | \$1.50        | 3/8                  | 1/4                 |
| 3/16        | 8.00    | 8 3/4                | 13 3/8                        | 3/16               | 1.30                               | 1.50          | 1 1/8                | 1/2                 |
| 1/4         | 10.00   | 10 3/8               | 15 1/8                        | 1/4                | 1.50                               | 1.75          | 1 1/4                | 3/4                 |
|             |         |                      |                               | 5/16               | 1.75                               | 2.00          | 1 3/4                | 1 1/4               |
|             |         |                      |                               | 3/8                | 2.10                               | 2.50          | 1 11/16              | 1 3/4               |
|             |         |                      |                               | 1/2                | 3.00                               | 3.50          | 2 1/2                | 1 3/4               |



### Jib Snaps

GALVANIZED MALLEABLE IRON AND BRASS



Fig. 765

| Size No. | Galv. Each | Plain Brass Each | Polished Brass Each | Extreme Length Inches | For Dia. Stay Inches | Weight Per 100 in Lbs. |
|----------|------------|------------------|---------------------|-----------------------|----------------------|------------------------|
| 0        | \$ .25     | \$ .35           | \$ .55              | 1 3/8                 | 1/4                  | 4 3/8                  |
| 1        | .30        | .40              | .60                 | 2                     | 3/8                  | 10                     |
| 2        | .35        | .50              | .75                 | 2 3/8                 | 3/8                  | 12 1/2                 |
| 3        | .40        |                  |                     | 2 3/4                 | 1/2                  | 21                     |
| 4        | .45        |                  |                     | 3                     | 3/8                  | 23 3/4                 |

### Fast Eye Boat Snaps

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 612

| Size No. | Galv. Each | Plain Bronze Each | Polished Bronze Each | Inside Dia. Eye Inches | Extreme Length Inches | Weight Per 100 Pounds |
|----------|------------|-------------------|----------------------|------------------------|-----------------------|-----------------------|
| 0        | \$ .25     | \$ .35            | \$ .55               | 3/8                    | 2                     | 5                     |
| 1        | .30        | .40               | .60                  | 3/8                    | 2 3/4                 | 10                    |
| 2        | .35        | .50               | .75                  | 3/4                    | 3 1/4                 | 13 1/8                |
| 3        | .40        | .65               | 1.00                 | 3/4                    | 3 3/8                 | 26 1/4                |
| 4        | .45        |                   |                      | 1                      | 4 1/8                 | 27 1/2                |
| 5        | .50        |                   |                      | 1 1/8                  | 4 7/8                 | 43 3/4                |
| 6        | .60        |                   |                      | 1 1/4                  | 5 1/4                 | 56 1/4                |

### Swivel Eye Boat Snaps

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 613

| Size No. | Galv. Each | Plain Bronze Each | Polished Bronze Each | Inside Dia. Eye Inches | Extreme Length Inches | Weight Per 100 Pounds |
|----------|------------|-------------------|----------------------|------------------------|-----------------------|-----------------------|
| 1        | \$ .50     | \$ .60            | \$ .75               | 5/8                    | 3 1/4                 | 11                    |
| 2        | .60        | .70               | .85                  | 3/4                    | 3 1/4                 | 16 1/4                |
| 3        | .75        | .90               | 1.25                 | 7/8                    | 4 3/4                 | 32                    |
| 4        | .90        |                   |                      | 1                      | 5 1/4                 | 37                    |
| 5        | 1.10       |                   |                      | 1 1/8                  | 6                     | 60                    |

### Baby Snaps

GALVANIZED AND POLISHED BRASS WITH FAST EYE



Fig. 842

| Diam. of Eye Inches | Galvanized Each | Polished Brass Each | Length Inches |
|---------------------|-----------------|---------------------|---------------|
| 3/8                 | \$ .05          | \$ .15              | 1 1/8         |

### Bob Stay Straps

GALVANIZED DROP FORGED STEEL AND POLISHED BRONZE



Fig. 803

| Diam. of Metal in Eye Inches | Galvanized Each | Pol. Bronze Each | Overall Length Inches | Length of Strap Inches |
|------------------------------|-----------------|------------------|-----------------------|------------------------|
| 3/8                          | \$ .75          | \$ 1.10          | 3                     | 2                      |
| 7/8                          | .85             | 1.40             | 4                     | 3                      |
| 1/2                          | .95             | 1.70             | 5                     | 3 1/2                  |
| 3/8                          | 1.10            | 2.80             | 6                     | 4                      |
| 3/4                          | 3.40            | —                | 8                     | 5                      |

### Belaying Pins

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 366

| Diam. Shank Inches | Galv. Each | Polished Bronze Each | Length Head Inches | Extreme Length Inches | Weight Each Pounds |
|--------------------|------------|----------------------|--------------------|-----------------------|--------------------|
| 3/8                | \$ .40     | \$ 1.60              | 3                  | 8                     | 3/8                |
| 1/2                | .60        | 1.95                 | 3 5/8              | 9 1/2                 | 3/4                |
| 5/8                | .80        | 2.70                 | 3 3/4              | 10 1/4                | 1                  |
| 3/4                | 1.00       | 3.40                 | 4 1/4              | 11                    | 1 3/4              |
| 1                  | 1.40       |                      | 6 1/2              | 15                    | 2 1/4              |
| 1 1/8              | 1.70       |                      | 7                  | 16                    | 3                  |
| 1 1/4              | 2.00       |                      | 8                  | 19                    | 3 1/2              |

### Baby Snaps

WITH SWIVEL EYE

ELECTRO GALVANIZED AND POLISHED BRASS



Fig. 1042

| Diam. of eye Inches | Galvanized Each | Polished brass Each | Length Inches |
|---------------------|-----------------|---------------------|---------------|
| 3/8                 | \$ .10          | \$ .18              | 2             |

### Baby Snaps

WITH OBLONG EYE—ELECTRO GALVANIZED



Fig. 1041

| Diam. of Eye Inches | Galvanized Each | Polished Brass Each | Length Inches | Size of eye Inches | Galvanized Each | Length Inches |
|---------------------|-----------------|---------------------|---------------|--------------------|-----------------|---------------|
| 3/8                 | \$ .05          | \$ .15              | 1 1/8         | 1/8 x 1/4          | \$ .05          | 1 3/4         |

## Eye Bands

GALVANIZED DROP FORGED STEEL  
AND MANGANESE BRONZE



Fig. 426

| Inside Diam. Inches | Price Each |         |           |          |
|---------------------|------------|---------|-----------|----------|
|                     | One Eye    | Two Eye | Three Eye | Four Eye |
| 1 1/4               | \$ .90     | \$ .90  | \$1.50    | \$1.50   |
| 1 1/2               | .95        | .95     | 1.55      | 1.55     |
| 1 3/4               | 1.00       | 1.00    | 1.65      | 1.65     |
| 2                   | 1.10       | 1.10    | 1.80      | 1.80     |
| 2 1/4               | 1.25       | 1.25    | 2.00      | 2.00     |
| 2 1/2               | 1.40       | 1.40    | 2.20      | 2.20     |
| 3                   | 1.55       | 1.55    | 2.40      | 2.40     |
| 3 1/2               | 1.70       | 1.70    | 2.60      | 2.60     |
| 4                   | 1.85       | 1.85    | 2.80      | 2.80     |
| 4 1/2               | 2.10       | 2.10    | 3.00      | 3.00     |

No extra charge for bronze bands.

## Sail Makers Needles

FORGED CAST STEEL—POLISHED  
LONG SQUARE



Fig. 410

| No.    | Price Per 100 | Length Inches | No. | Price Per 100 | Length Inches |
|--------|---------------|---------------|-----|---------------|---------------|
| 17     | \$2.10        | 2 1/4         | 12  | \$ 3.75       | 3 1/4         |
| 16     | 2.10          | 2 1/2         | 11  | 5.00          | 3 3/4         |
| 15     | 2.10          | 2 1/2         | 10  | 6.20          | 3 3/4         |
| 15 1/2 | 2.10          | 2 3/8         | 9   | 7.40          | 4             |
| 14     | 2.25          | 2 3/8         | 8   | 9.95          | 4 1/2         |
| 14 1/2 | 2.50          | 2 3/4         | 7   | 12.40         | 4 3/4         |
| 13     | 2.95          | 3             |     |               |               |

Packed 25 needles per package—only furnished in full packages.

## Sailors Seaming Palms

FULL HIDE MOUNTED



Fig. 411

|                       |        |
|-----------------------|--------|
| Right Hand, Per Dozen | \$3.90 |
| Left Hand, Per Dozen  | 4.30   |

## Mast Hoops

GALVANIZED WROUGHT IRON



Fig. 849

| Size Inches | Price Per 100 | Weight Per 100 in Lbs. | Size Inches | Price Per 100 | Weight Per 100 in Lbs. |
|-------------|---------------|------------------------|-------------|---------------|------------------------|
| 2 x 1/4     | \$ 6.00       | 10 1/2                 | 5 x 1/4     | \$14.00       | 24 1/2                 |
| 2 1/2 x 1/4 | 8.00          | 12 1/2                 | 6 x 1/4     | 15.00         | 30                     |
| 3 x 1/4     | 8.50          | 15                     | 7 x 1/4     | 16.00         | 34 1/2                 |
| 3 1/2 x 1/4 | 10.00         | 17                     | 8 x 1/4     | 18.00         | 39                     |
| 4 x 1/4     | 13.00         | 20                     | 9 x 1/4     | 21.00         | 44                     |
| 4 1/2 x 1/4 | 13.50         | 22 1/2                 | 10 x 1/4    | 25.00         | 49                     |

Measure in clear, special size made to order.

## Jib Rings

GALVANIZED WROUGHT IRON



Fig. 897

| Size Inches   | Price Each | Size Inches | Price Each | Size Inches | Price Each |
|---------------|------------|-------------|------------|-------------|------------|
| 1 1/2         | \$ .21     | 3/8 x 3     | \$ .28     | 1/2 x 6     | \$ .55     |
| 1 1/4         | .22        | 3/8 x 3 1/2 | .30        | 3/4 x 3     | .60        |
| 1 1/8 x 2 1/4 | .23        | 1/2 x 3     | .40        | 3/8 x 3 1/2 | .65        |
| 3/8 x 2       | .24        | 1/2 x 3 1/2 | .43        | 3/8 x 4     | .70        |
| 3/8 x 2 1/4   | .25        | 1/2 x 4     | .48        | 3/8 x 5     | .80        |
| 3/8 x 2 1/2   | .25        | 1/2 x 5     | .50        |             |            |

## Lacing Eyes

GALVANIZED MALLEABLE IRON AND BRASS

REGULAR



Fig. 766

| Size No. | Galv. Each | Plain Brass Each | Inside Diam. of Eye Inches | Length Under Eye Inches | Weight Per 100 in Lbs. |
|----------|------------|------------------|----------------------------|-------------------------|------------------------|
| 1        | \$ .04     | \$ .05           | 1/4                        | 1                       | 1 1/8                  |
| 2        | .05        | .08              | 1/3                        | 1 1/8                   | 3 3/4                  |
| 3        | .07        | .10              | 1/3                        | 1 1/2                   | 8 1/8                  |
| 4        | .12        | .14              | 1/3                        | 2                       | 11 1/4                 |

WITH SHOULDER



Fig. 767

| Size No. | Galv. Each | Plain Brass Each | Inside Diam. of Eye Inches | Length Under Shoulder Inches | Weight Per 100 in Lbs. |
|----------|------------|------------------|----------------------------|------------------------------|------------------------|
| 5        | \$ .04     | \$ .05           | 1/4                        | 1                            | 3 1/2                  |
| 6        | .05        | .08              | 1/4                        | 1                            | 3 3/4                  |
| 7        | .07        | .10              | 1/2                        | 1                            | 4 3/8                  |
| 8        | .12        | .14              | 3/8                        | 1 3/4                        | 11                     |

**Washer Grommets**  
SHEET BRASS



Fig. 898

| Size No. | Price Per Gross | Size Hole Inserted Inches | Est. Wt. Per Gross Pounds |
|----------|-----------------|---------------------------|---------------------------|
| 0        | \$ .50          | 1/4                       | 3/8                       |
| 1        | .60             | 3/8                       | 1/4                       |
| 2        | .70             | 3/8                       | 3/4                       |
| 3        | 1.00            | 1/2                       | 1                         |
| 4        | 1.50            | 1/2                       | 2                         |
| 5        | 2.00            | 5/8                       | 2 1/2                     |

**Conical Point Grommets**  
CAST BRASS TOPS—ROLLED RIM TUBES



Fig. 1067

| Size No. | Per Gross | Size Hole Inserted Inches | Weight Per Gross Pounds |
|----------|-----------|---------------------------|-------------------------|
| 2        | \$ 3.00   | 3/8                       | 2 1/4                   |
| 3        | 3.70      | 1/2                       | 2 1/2                   |
| 4        | 4.90      | 5/8                       | 3 3/8                   |
| 5        | 7.00      | 3/4                       | 5 1/4                   |
| 6        | 8.50      | 7/8                       | 8 1/8                   |
| 7        | 15.50     | 1 1/8                     | 10 1/4                  |
| 8        | 18.50     | 1 1/8                     | 14 1/4                  |

Inserted with Die Fig. 902, Style B.

**Spur Grommets**

BRASS TUBES AND TOPS—ROLLED RIM



Fig. 899

| Size No. | Price Per Gross | Size Hole Inserted Inches | Est. Wt. Per Gross Pounds |
|----------|-----------------|---------------------------|---------------------------|
| 0        | \$ 1.55         | 1/4                       | 1 1/8                     |
| 1        | 1.75            | 3/8                       | 1 1/8                     |
| 2        | 1.95            | 1/2                       | 1 1/2                     |
| 3        | 2.60            | 5/8                       | 1 3/4                     |
| 4        | 3.50            | 3/4                       | 2 1/2                     |
| 5        | 4.60            | 7/8                       | 3 1/2                     |
| 6        | 6.00            | 1                         | 5 3/8                     |
| 7        | 15.00           | 1 1/8                     | 5 5/8                     |
| 8        | 17.50           | 1 1/8                     | 8                         |

**Eyelet Grommets**

STAMPED BRASS



Fig. 1068

| No. | Per Gross | Size Inches | I. D. Hole Inserted Inches | Weight Gross Ounces |
|-----|-----------|-------------|----------------------------|---------------------|
| 1   | \$ .60    | 3/8         | 1/4                        | 4                   |
| 2   | .75       | 1/2         | 3/8                        | 6                   |
| 3   | 1.00      | 5/8         | 1/2                        | 9                   |
| 4   | 1.60      | 3/4         | 1/2                        | 14                  |
| 5   | 2.40      | 7/8         | 3/8                        | Pounds 1            |
| 6   | 3.50      | 1           | 1/2                        | 17 3/8              |
| 7   | 5.75      | 1 1/8       | 1 1/8                      | 23 3/8              |
| 8   | 6.25      | 1 1/4       | 1 1/8                      | 3                   |
| 9   | 8.50      | 1 3/8       | 1 3/8                      | 3 1/4               |
| 10  | 10.00     | 1 1/2       | 1 1/4                      | 4 3/4               |
| 11  | 11.50     | 1 3/4       | 1 1/2                      | 5 1/2               |
| 15  | 29.00     | 2 1/2       | 2                          | 9                   |

**Teeth Grommets**

SHEET BRASS



Fig. 900

| Size No. | Price Per Gross | Size Hole Inserted Inches | Est. Wt. Per Gross Pounds |
|----------|-----------------|---------------------------|---------------------------|
| 0        | \$ .70          | 1/4                       | 3/8                       |
| 1        | .75             | 3/8                       | 1/4                       |
| 2        | 1.10            | 1/2                       | 3/4                       |
| 3        | 1.30            | 5/8                       | 1 1/8                     |
| 4        | 1.90            | 3/4                       | 1 3/4                     |
| 5        | 2.70            | 7/8                       | 2 1/2                     |

**Grommet Hole Cutters**

FORGED STEEL



Fig. 903

| No. | Price Each | No. | Price Each |
|-----|------------|-----|------------|
| 0   | \$ .68     | 5   | \$1.35     |
| 1   | .68        | 6   | 2.40       |
| 2   | .68        | 7   | 2.60       |
| 3   | .88        | 8   | 2.80       |
| 4   | 1.00       |     |            |



### Junior Grommet Dies

CAST IRON

For inserting Brass Washer and Teeth Grommets



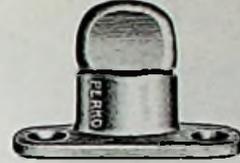
Fig. 901

| Size No. | Each   | Weight Each Lbs. |
|----------|--------|------------------|
| 0        | \$1.15 | 3/4              |
| 1        | 1.30   | 3/4              |
| 2        | 1.80   | 1                |
| 3        | 2.00   | 1 1/8            |

This die is not guaranteed and not for commercial use, a useful, inexpensive tool for those who have only a few grommets to insert.

### Curtain Fasteners

WROUGHT BRASS



Fastener Fig. 995



Eyelet Fig. 996



Washer Fig. 997

Made of stamped brass, for single and double curtains, fastener base size is 1 1/4 x 1/2.

|   | Single  | Double  |
|---|---------|---------|
| Complete with Eyelet and Washer—per gross | \$11.00 | \$14.00 |
| Fastener Only—per gross                   | 9.00    | 12.50   |
| Eyelet Only—per gross                     | 1.50    | 1.50    |
| Washer Only—per gross                     | .90     | .90     |

### Senior Grommet Dies

FORGED STEEL

Style B for inserting Spur Grommets

Style C for inserting Washer and Teeth Grommets



Fig. 902

| Size No. | Style B Each | Style C Each | Weight Each Lbs. |
|----------|--------------|--------------|------------------|
| 0        | \$3.00       | \$2.70       | 1 1/4            |
| 1        | 3.20         | 2.90         | 1 3/8            |
| 2        | 3.30         | 3.00         | 1 3/8            |
| 3        | 3.50         | 3.20         | 1 7/8            |
| 4        | 3.70         | 3.40         | 2 3/8            |
| 5        | 4.00         | 3.70         | 2 3/8            |
| 6        | 4.20         | 4.10         | 3 1/2            |
| 7        | 4.50         |              | 3 3/4            |
| 8        | 4.80         |              | 5                |

Use a wooden mallet with above dies.

### Grommet Rings

MALLEABLE IRON—GALVANIZED

INSIDE MEASUREMENT



Fig. 1002

| Light               |                 | Heavy               |                 |
|---------------------|-----------------|---------------------|-----------------|
| Inside Diam. Inches | Price Per Gross | Inside Diam. Inches | Price Per Gross |
| 1/4                 | \$ .60          | 1/2                 | \$ 1.00         |
| 5/8                 | .60             | 3/8                 | 1.25            |
| 3/8                 | .60             | 3/4                 | 2.00            |
| 1/2                 | .85             | 7/8                 | 2.25            |
| 5/8                 | 1.15            | 1                   | 2.50            |
| 3/4                 | 1.25            | 1 1/8               | 4.00            |
| 7/8                 | 1.75            | 1 1/4               | 5.25            |
| 1                   | 2.00            | 1 1/2               | 7.00            |
| 1 1/8               | 3.80            | 1 3/4               | 9.00            |
| 1 1/4               | 4.00            | 2                   | 14.00           |
| 1 1/2               | 6.75            | 2 1/4               | 16.00           |
| 1 3/4               | 8.25            | 2 1/2               | 18.00           |
| 2                   | 9.00            | 3                   | 21.00           |

### Grommet Hooks

CAST BRONZE



Fig. 1000

Plain Bronze Per Gross \$5.00

Polished Bronze Per Gross \$10.00

1 1/2 inch and smaller are packed in boxes of 1 gross each.  
 1 3/4, 2 and 2 1/4 inch are packed in boxes of 1/2 gross each.  
 2 1/2 and 3 inch are packed in boxes of 1/4 gross each.



### Enos Windlass

GALVANIZED—BRONZE

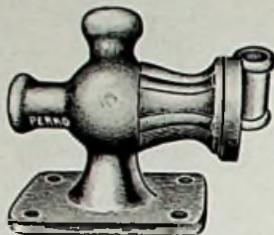


Fig. 964

| Size No. | Galvanized Each | Polished Bronze Each | Height Inches | Width Overall Inches | Est. Wt. Each in Lbs. |
|----------|-----------------|----------------------|---------------|----------------------|-----------------------|
| 0        | \$10.50         | \$25.00              | 6             | 7 1/2                | 12                    |
| 1        | 18.75           | 46.00                | 8 1/2         | 9                    | 27                    |
| 2        | 20.80           | 54.00                | 10 1/2        | 11                   | 34                    |
| 3        | 29.00           | 71.00                | 11 1/2        | 13 1/2               | 58                    |

| Size No. | Diam. Drum Inches | Size Base Inches | Size Bolts Inches | Size Chain Inches | Size Rope Inches | Est. Wt. Each Galv. in Lbs. |
|----------|-------------------|------------------|-------------------|-------------------|------------------|-----------------------------|
| 0        | 2 1/2             | 4 1/2 x 6        | 3/8               | 3/8               | 5/8              | 11                          |
| 1        | 3 1/4             | 6 1/4 x 8 1/2    | 3/8               | 3/8               | 3/4              | 25                          |
| 2        | 3 1/2             | 7 3/8 x 9 1/2    | 3/8               | 1/4               | 7/8              | 31                          |
| 3        | 4 1/2             | 7 1/2 x 10       | 3/4               | 3/4               | 1 1/8            | 53                          |

### Patent Gypsy Windlass

PAINTED FINISH

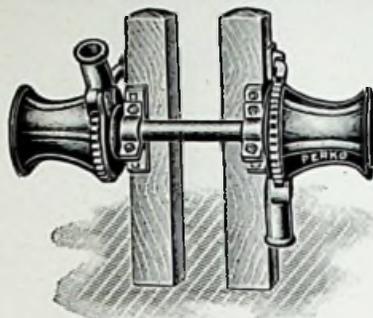


Fig. 966

Full Windlass has Two Heads  
Half Windlass has One Head

| Size  | Half Windlass Each | Full Windlass Each | Bltts Inches | Length of Head Inches | Diameter of Head on End Inches |
|-------|--------------------|--------------------|--------------|-----------------------|--------------------------------|
| E     | \$10.50            | \$15.50            | 6            | 5 1/4                 | 4 1/2                          |
| D     | 11.50              | 17.00              | 8            | 6                     | 5                              |
| C     | 13.50              | 19.00              | 10           | 6 1/2                 | 7 1/2                          |
| B     | 17.00              | 24.00              | 12           | 7                     | 7 1/2                          |
| 0     | 24.00              | 30.00              | 12           | 8                     | 8 1/2                          |
| 1     | 27.00              | 40.00              | 14           | 9 1/2                 | 10                             |
| 2     | 31.00              | 53.00              | 16           | 12                    | 11 1/2                         |
| 2 1/2 | 42.00              | 71.00              | 18           | 13                    | 13                             |

Galvanized Windlasses—Price on Application

### Yacht Capstan

ALL BRASS OR BRASS AND GALVANIZED

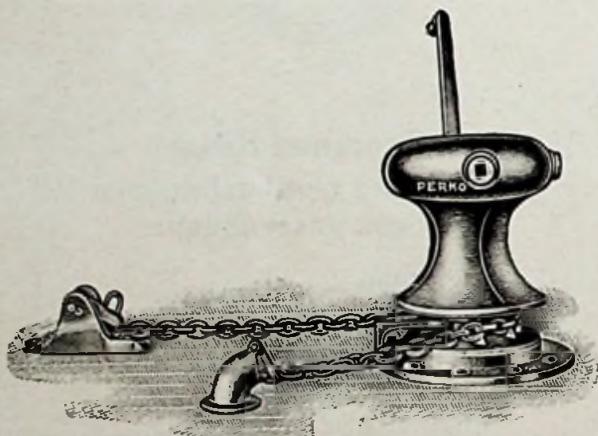


Fig. 965

Absolutely dependable, operates in either direction with reversible locking pawl, has positive friction brake on wildcat which is operated by one of the handles.

Has cold drawn steel shafts, Bronze locking pawls, pawl shafts and pinion gear shafts.

For 1/8, 3/8, 1/2, and 5/8 Inch Chain

Furnish sample of at least 6 links when ordering

| Diameter Head Inches | Diameter Barrel Inches | Diameter Base Inches | Height Inches | Weight Pounds |
|----------------------|------------------------|----------------------|---------------|---------------|
| 11                   | 6                      | 13                   | 15            | 130           |

Price complete, Polished Brass Head, Galvanized Barrel, Wildcat and Base ..... \$225.00

Price complete, Polished Brass Head, Barrel and Base, Bronze Wildcat ..... 325.00

Price includes Deck Pipe and Chain Stopper

### Yacht Gypsy Windlass

WITH LOOSE WILDCAT

IMPROVED PAWLS AND RATCHET

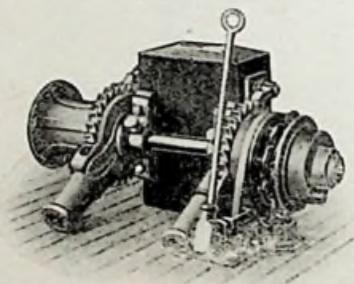


Fig. 967

Positive ratchet, no slipping of pawls. Turned steel shafts, machined boxes, fitted with grease cups.

Wildcats are made to fit chain used, therefor when ordering, always furnish a sample of at least six links.

Furnished complete with deck pipe and chain stopper.

| Size | Bltts Inches | Length of Head Inches | Diameter of Head on End Inches | Size Chain Inches |
|------|--------------|-----------------------|--------------------------------|-------------------|
| B    | 12           | 7                     | 7 1/2                          | 3/8               |
| 1    | 14           | 8                     | 8 1/2                          | 1/2               |

| Size | Painted Each | Galvanized Each |
|------|--------------|-----------------|
| B    | \$ 85.00     | \$100.00        |
| 1    | 105.00       | 125.00          |



### Tiller Rope Sheaves

GALVANIZED IRON AND BRASS  
COMMON BUSHED



Fig. 806

| Size Sheave Inches | Size Pin Inches | Galvanized Iron Each | Plain Brass Each | Size of Rope Inches |
|--------------------|-----------------|----------------------|------------------|---------------------|
| 1 7/8 x 7/8        | 1/4 or 5/16     | \$ .30               | \$ .60           | 1/4                 |
| 2 x 7/8            | 1/4 or 5/16     | .30                  | .65              | 5/16                |
| 2 1/2 x 3/4        | 1/4 or 5/16     | .35                  | .70              | 5/16                |
| 2 1/2 x 1 1/4      | 1/4 or 5/16     | .35                  | .70              | 5/16                |
| 3 x 7/8            | 5/16 or 3/8     | .45                  | .90              | 3/8                 |
| 3 x 1 1/4          | 5/16 or 3/8     | .45                  | 1.00             | 3/8                 |
| 3 1/4 x 1 1/2      | 5/16 or 3/8     | .50                  | 1.00             | 3/8                 |
| 4 x 1 1/2          | 3/8 or 7/8      | .60                  | 1.40             | 3/8                 |
| 4 x 3/4            | 3/8 or 7/8      | .75                  | 1.50             | 3/8                 |
| 4 1/2 x 7/8        | 7/8 or 1/2      | .75                  | 1.50             | 7/8                 |
| 4 1/2 x 3/4        | 7/8 or 1/2      | .80                  | 1.75             | 1/2                 |
| 5 x 3/8            | 7/8 or 1/2      | 1.25                 | 2.75             | 1/2                 |
| 5 x 1              | 1/2 or 3/8      | 1.40                 | 4.00             | 3/8                 |
| 6 x 1 1/4          | 1/2 or 3/8      | 1.60                 | 4.00             | 7/8                 |
| 6 x 1              | 3/8 or 1/4      | 2.00                 | 4.50             | 5/8                 |

### Manila Rope Sheaves

JAPANNED AND GALVANIZED



Fig. 807

| Size Sheave Inches  | Size Block Inches | Common Jap'd Each | Bushed Galv. Each | Roller Jap'd Each | Bushed Galv. Each |
|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 1 3/4 x 1 1/2 x 3/8 | 3                 | \$0.12            | \$0.13            | \$0.40            | \$0.43            |
| 2 x 1 1/2 x 3/8     | 3 1/2             | .13               | .14               | .42               | .45               |
| 2 1/4 x 3/4 x 3/8   | 4                 | .15               | .16               | .45               | .48               |
| 2 1/2 x 1 1/4 x 3/8 | 4 1/2             | .18               | .20               | .50               | .55               |
| 3 x 3/4 x 3/8       | 5                 | .25               | .30               | .55               | .62               |
| 3 1/2 x 1 x 1 1/2   | 6                 | .30               | .35               | .65               | .72               |
| 4 1/4 x 1 x 1 1/2   | 7                 | .38               | .45               | .75               | .85               |
| 4 3/4 x 1 1/4 x 5/8 | 8                 | .45               | .55               | 1.00              | 1.15              |
| 5 1/2 x 1 1/4 x 5/8 | 9                 | .55               | .65               | 1.10              | 1.30              |
| 6 1/4 x 1 1/4 x 5/8 | 10                | .65               | .80               | 1.35              | 1.60              |
| 7 3/4 x 1 1/4 x 3/4 | 11                | .85               | 1.00              | 1.65              | 1.90              |
| 8 x 1 3/8 x 3/4     | 12                | 1.10              | 1.30              | 1.90              | 2.15              |
| 9 x 1 1/2 x 3/4     | 13                | 1.65              | 2.40              | 2.50              | 3.25              |
| 9 1/2 x 1 5/8 x 3/8 | 14                | 2.00              | 2.80              | 2.75              | 3.50              |
| 10 x 1 5/8 x 7/8    | 15                | 2.20              | 3.00              | 3.00              | 3.85              |
| 11 x 1 3/4 x 7/8    | 16                | 2.50              | 3.40              | 3.25              | 4.25              |

Other sizes on application, give size of sheave and diameter of rope.

### Round Rod

GALVANIZED IRON AND BRASS



Fig. 799

| Diam. Inches | Approx. Weight Per Foot Brass | Brass Price Per Foot | Galv. Price Per Foot |
|--------------|-------------------------------|----------------------|----------------------|
| 3/4          | .180                          | \$0.15               |                      |
| 5/8          | .283                          | .20                  |                      |
| 3/8          | .407                          | .32                  |                      |
| 1/2          | .555                          | .42                  |                      |
| 5/8          | .724                          | .56                  |                      |
| 3/4          | —                             | —                    |                      |
| 1            | —                             | —                    |                      |

Price on Application

### Half Round Rod

GALVANIZED IRON AND BRASS



Fig. 800

| Width Inches | Approx. Weight Per Foot | Price Per Foot Brass | Price Per Foot Galv. |
|--------------|-------------------------|----------------------|----------------------|
| 3/8          | .187                    | \$ .15               |                      |
| 1/2          | .334                    | .25                  |                      |
| 5/8          | .522                    | .35                  |                      |
| 3/4          | .750                    | .50                  |                      |
| 7/8          | 1.022                   | .70                  |                      |
| 1            | 1.355                   | .90                  |                      |

Price on Application

### Half Oval Rod

GALVANIZED IRON AND BRASS



Fig. 801

| Size Inches | Weight Per Foot Pounds | Per Foot Brass | Price Per Foot Galv. Iron |
|-------------|------------------------|----------------|---------------------------|
| 3/8 x 3/8   | .104                   | \$ .10         |                           |
| 1/2 x 1/8   | .167                   | .15            |                           |
| 5/8 x 1/8   | .312                   | .24            |                           |
| 3/4 x 1/4   | .508                   | .32            |                           |
| 7/8 x 1/4   | .584                   | .42            |                           |
| 1 x 1/4     | .650                   | .50            |                           |
| 1 1/4 x 3/8 | 1.250                  | .70            |                           |

Price on Application

### Square Rod

BRASS



Fig. 802

| Size Inches | Price Per Foot |
|-------------|----------------|
| 1/4         | \$0.35         |
| 3/8         | .35            |
| 1/2         | .35            |

Prices in long lengths on application.

### Pick-Up Buoy

FLAT TOP



Fig. 234

Heavy galvanized iron, double seamed and soldered.

Wrought iron handle riveted to body, large eye on bottom and rope thimble. Every buoy fully tested before it leaves our factory.

Measurements do not include handle or eye.

| No. | Size Inches | Weight Lbs. | Price Each |
|-----|-------------|-------------|------------|
| 1   | 9x14        | 4           | \$4.00     |
| 2   | 12x18       | 5           | 4.75       |
| 3   | 13x22       | 7           | 5.75       |

### Cone Mooring Buoy

GALVANIZED

Heavy galvanized iron, iron pipe running all the way through buoy, heavy galvanized 5/8 inch buoy rod through pipe allowing body to swivel, eye on top, swivel on bottom, body grooved for bumper, which is of heavy 1 1/2 inch outside diameter rubber hose.

Can also be furnished with welded eye bolts top and bottom non swivel—same prices.



Fig. 370

| Size Inches | With Bumper Each | Without Bumper Each |
|-------------|------------------|---------------------|
| 16 x 24     | \$15.00          | \$11.00             |
| 20 x 30     | 18.00            | 14.00               |
| 24 x 36     | 24.00            | 20.00               |
| 30 x 36     | 26.50            | 24.00               |

Size does not include swivel or eye.

Can also be furnished with 7/8 inch diameter buoy rod and swivel—add to above prices \$3.50 each.

### Pick-Up Buoy

CONE TOP



Fig. 235

Heavy galvanized iron, double seamed and soldered. Wrought iron handle riveted to body, large eye on bottom for rope.

Fully Tested

Measurements do not include handle or eye.

| No. | Size Inches | Weight Lbs. | Price Each |
|-----|-------------|-------------|------------|
| 4   | 13x22       | 5           | \$3.00     |
| 5   | 16x24       | 6 1/2       | 4.00       |

### Yachtsmen's Mooring Buoy

GALVANIZED



Fig. 233

Extra heavy, all riveted body, extra long rod and eye, standard length of rod extends 30 inches above top of buoy. Diameter of rod, 7/8 inch. Galvanized iron pipe runs through buoy, forged swivel on bottom, bumper is 1 1/2 inch outside diameter rubber hose set in groove, drain plug in bottom of buoy.

| Size Inches | With Bumper Each | Without Bumper Each |
|-------------|------------------|---------------------|
| 24 x 36     | \$39.00          | \$35.00             |
| 30 x 36     | 43.00            | 39.00               |
| 36 x 42     | 50.00            | 46.00               |
| 40 x 48     | 57.00            | 53.00               |

Measurements do not include eye rod or swivel. Special lengths of rod furnished to order.

### Heavy Duty Mooring Buoy

RIVETED BODY—GALVANIZED



Fig. 551

Extra heavy construction, all riveted. 7/8 inch wrought iron buoy rod through center, eye on top, swivel on bottom, grooved to take heavy rubber bumper. Bumper is 1 1/2 inch outside diameter heavy hose, outlet in bottom for draining.

| Size Inches | With Bumper Each | Without Bumper Each |
|-------------|------------------|---------------------|
| 24 x 36     | \$34.00          | \$30.00             |
| 30 x 36     | 38.00            | 34.00               |
| 36 x 42     | 46.00            | 42.00               |
| 40 x 48     | 52.00            | 48.00               |

Measurements do not include swivel or eye.

### Racing Buoy

GALVANIZED



Fig. 552

For marking race courses. Heavy galvanized iron. Same construction as our cone mooring buoys, eye in bottom, 1 inch diameter flag pole socket in top, 1 1/2 inch rubber bumper set in groove around body.

| Size Inches | With Bumper Each | Without Bumper Each |
|-------------|------------------|---------------------|
| 16 x 24     | \$15.00          | \$11.00             |
| 20 x 30     | 18.50            | 14.50               |
| 24 x 36     | 24.00            | 20.00               |
| 30 x 36     | 28.00            | 24.00               |





**Ideal All Steel Buoy**

WITH STEEL ROD THROUGH CENTER  
SWIVEL EYE AT BOTTOM



Fig. 531

ALL THE STRAIN IS ON THE SOLID ROD

This Rod connects the SWIVEL EYE at the bottom of the Buoy with the Large Steel Handle at the Top, and it absorbs all the mooring strain so that you are not depending on the shell of the Buoy to hold your Boat.

Buoys are tested for leaks at the factory by filling with compressed air.

Made of 14 gauge sheet steel, large handle at top makes it easy to "spear" with boat hook.

Bumper is 1 1/2 inch outside diameter heavy rubber hose.

| Diameter Inches | Without Bumper Each | With Bumper Each | Diameter Rod Inches | Inside Handle Inches |
|-----------------|---------------------|------------------|---------------------|----------------------|
| 20              | \$12.00             | \$16.00          | 3/4                 | 5x2 1/2              |

**Hold Fast Buoy**

A REAL MOORING BUOY FOR SMALL BOATS  
AT A LOW PRICE



Fig. 445

A heavy gauge galvanized sheet iron body, a 5/8 inch forged rod through a galvanized pipe in the body, large eye on top, large heavy swivel on bottom, a substantial rubber bumper set in groove of body, will not mar or scratch hull of boat; small and practical.

| No. | Price Each | Diam. Body Inches | Length Body Inches | Length Overall Inches | Inside Diam. Eye Inches | Weight Pounds |
|-----|------------|-------------------|--------------------|-----------------------|-------------------------|---------------|
| 1   | \$10.00    | 13                | 22                 | 33 1/2                | 3                       | 15            |
| 2   | 13.50      | 17                | 27                 | 38 1/2                | 3                       | 24            |

**Galvanized Buoy Rods**

COMPLETE AS ILLUSTRATED



Fig. 278

| Diam. Inches | Length Under Eye Inches | Price Each |
|--------------|-------------------------|------------|
| 1/2          | 18                      | \$1.90     |
| 1/2          | 20                      | 2.00       |
| 3/8          | 24                      | 2.50       |
| 3/8          | 30                      | 2.75       |
| 5/8          | 33 1/2                  | 4.00       |
| 5/8          | 37 1/2                  | 4.25       |
| 5/8          | 43 1/2                  | 4.50       |
| 7/8          | 37 1/2                  | 7.00       |
| 7/8          | 43 1/2                  | 7.50       |
| 1 1/8        | 52                      | 8.00       |

**Grappels**

GALVANIZED DROP FORGED STEEL  
FIVE PRONG

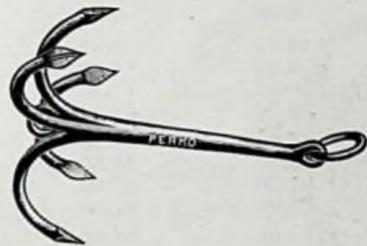


Fig. 207

| Weight Pounds | Galvanized Each | Weight Pounds | Galvanized Each |
|---------------|-----------------|---------------|-----------------|
| 4             | \$ .85          | 12            | \$1.55          |
| 5             | .95             | 15            | 1.95            |
| 6             | 1.00            | 18            | 2.25            |
| 8             | 1.15            | 20            | 2.60            |
| 10            | 1.30            |               |                 |

Larger sizes—prices on application.

**Anglers Anchor**

FOR SMALL BOATS



Fig. 216

| Weight Pounds | Galvanized Each | Japaned Each | Diameter Inches | Height Inches |
|---------------|-----------------|--------------|-----------------|---------------|
| 7             | \$1.30          | \$1.00       | 6               | 8             |
| 11            | 2.00            | 1.45         | 7               | 9             |
| 15            | 2.65            | 2.00         | 8               | 10            |

**Kedge Anchors**  
DROP FORGED STEEL



Fig. 149

| Weight Pounds | Galvanized Each | Japanned Each | Length Inches |
|---------------|-----------------|---------------|---------------|
| 5             | \$ 1.60         | \$ 1.45       | 16            |
| 8             | 1.70            | 1.45          | 23            |
| 10            | 1.75            | 1.45          | 24            |
| 12            | 1.95            | 1.60          | 27            |
| 15            | 2.35            | 1.90          | 28            |
| 20            | 2.90            | 2.30          | 31            |
| 25            | 3.60            | 2.85          | 33            |
| 30            | 4.30            | 3.40          | 34            |
| 35            | 5.00            | 4.00          | 37            |
| 40            | 5.75            | 4.55          | 40            |
| 50            | 7.20            | 5.70          | 42            |
| 60            | 8.65            | 6.85          | 45            |
| 75            | 10.85           | 8.60          | 45            |
| 100           | 14.40           | 11.40         | 51            |
| 125           | 21.50           | 17.80         | 52            |
| 150           | 25.90           | 21.40         | 55½           |
| 200           | 34.60           | 28.60         | 62½           |
| 250           | 43.30           | 35.80         | 64            |
| 300           | 51.80           | 42.80         | 65            |
| 350           | 57.00           | 47.00         | 65            |
| 400           | 66.00           | 54.00         | 72            |
| 450           | 74.00           | 60.00         | 72            |
| 500           | 82.00           | 67.00         | 72            |
| 550           | 91.00           | 74.00         |               |
| 600           | 99.00           | 80.00         |               |
| 650           | 107.00          | 87.00         |               |
| 700           | 116.00          | 93.00         |               |

**Navy Type Anchor**

DROP FORGED SHANK—GALVANIZED

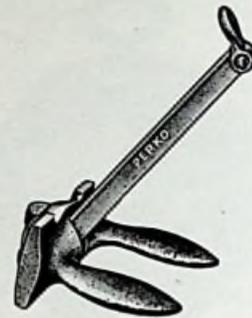


Fig. 45

| Weight Pounds | Price Each | Length Inches | Weight Pounds | Price Each | Length Inches |
|---------------|------------|---------------|---------------|------------|---------------|
| 5             | \$1.15     | 12            | 50            | \$ 7.50    | 26            |
| 10            | 1.85       | 14            | 60            | 9.00       | 28            |
| 15            | 2.50       | 15            | 80            | 12.00      | 30            |
| 20            | 3.00       | 17            | 100           | 15.00      | 31            |
| 25            | 3.75       | 18            | 125           | 18.75      | 32            |
| 30            | 4.50       | 19            | 150           | 22.50      | 34            |
| 35            | 5.25       | 21            | 200           | 30.00      | 41            |
| 40            | 6.00       | 23            |               |            |               |

Larger sizes—Price on application.

**Swivel Anchors**  
GALVANIZED



Fig. 174

A ball and socket joint on the drop forged shank allows it to swivel in the anchor head preventing the cable from fouling, this feature including the great holding power of the anchor makes it a very popular one with the practical yachtsman.

| Weight Pounds | Price Each | Length Inches |
|---------------|------------|---------------|
| 5             | \$ 1.15    | 12            |
| 10            | 1.85       | 14            |
| 15            | 2.50       | 15            |
| 20            | 3.00       | 17            |
| 25            | 3.75       | 18            |
| 30            | 4.50       | 19            |
| 35            | 5.25       | 21            |
| 40            | 6.00       | 23            |
| 50            | 7.50       | 26            |
| 60            | 9.00       | 28            |
| 80            | 12.00      | 30            |
| 100           | 15.00      | 31            |
| 125           | 18.75      | 32            |
| 150           | 22.50      | 34            |
| 200           | 30.00      | 41            |

**Mushroom Anchor**

STEEL SHANK RIVETED THROUGH HEAD

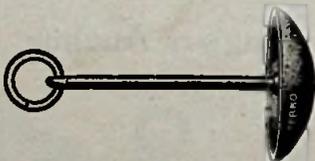


Fig. 142

| Weight Pounds | Galv. Each | S. C. Each | Weight Pounds | Galv. Each | S. C. Each |
|---------------|------------|------------|---------------|------------|------------|
| 5             | \$1.00     | \$ .85     | 100           | \$10.25    | \$ 7.15    |
| 8             | 1.40       | 1.15       | 125           | 12.70      | 8.95       |
| 10            | 1.70       | 1.40       | 150           | 15.00      | 10.50      |
| 15            | 2.30       | 1.85       | 200           | 20.00      | 14.00      |
| 20            | 2.90       | 2.30       | 250           | 25.00      | 17.85      |
| 25            | 3.60       | 2.85       | 300           | 30.00      | 21.40      |
| 35            | 4.50       | 3.45       | 350           | 35.00      | 25.00      |
| 50            | 5.45       | 3.95       | 400           | 40.00      | 28.50      |
| 75            | 7.95       | 5.70       | 450           | 45.00      | 31.50      |
|               |            |            | 500           | 50.00      | 35.75      |

Anchors 50 lbs. and over, are self-colored. Government Tolerance in Weight, Plus or Minus 5%.



### Trawl and Sand Anchors

DROP FORGED STEEL  
FAST STOCK

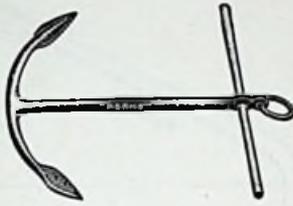


Fig. 364

| Weight Pounds | Galvanized Each | Japanned Each |
|---------------|-----------------|---------------|
| 5             | \$ 1.25         | \$ 1.10       |
| 8             | 1.35            | 1.10          |
| 10            | 1.40            | 1.10          |
| 12            | 1.65            | 1.30          |
| 15            | 2.10            | 1.65          |
| 20            | 2.75            | 2.15          |
| 25            | 3.45            | 2.70          |
| 30            | 4.10            | 3.20          |
| 35            | 4.85            | 3.80          |
| 40            | 5.50            | 4.30          |
| 50            | 6.85            | 5.35          |
| 60            | 8.25            | 6.45          |
| 75            | 10.35           | 8.10          |
| 100           | 13.75           | 10.75         |

LOOSE STOCK

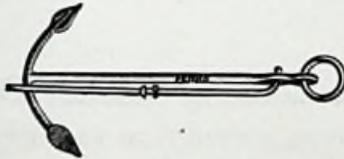


Fig. 365

| Weight Pounds | Galvanized Each | S. C. Each |
|---------------|-----------------|------------|
| 5             | \$ 1.55         | \$ 1.40    |
| 8             | 1.65            | 1.40       |
| 10            | 1.70            | 1.40       |
| 15            | 2.30            | 1.85       |
| 20            | 2.85            | 2.25       |
| 25            | 3.55            | 2.80       |
| 30            | 4.20            | 3.30       |
| 35            | 5.00            | 3.90       |
| 40            | 5.65            | 4.45       |
| 50            | 7.00            | 5.55       |
| 60            | 8.50            | 6.70       |
| 75            | 10.70           | 8.45       |
| 100           | 14.20           | 11.20      |

### Anchor Keys

GALVANIZED

| Size No. | Each   | Length Inches | For Anchor Weighing Pounds |
|----------|--------|---------------|----------------------------|
| 1        | \$ .10 | 1 3/4         | 5 to 8                     |
| 2        | .15    | 2 1/2         | 10 to 20                   |
| 3        | .20    | 3 1/4         | 25 to 40                   |
| 4        | .25    | 4 1/2         | 50 to 60                   |
| 5        | .25    | 4 5/8         | 75 to 100                  |
| 6        | .25    | 4 3/4         | 125 to 150                 |
| 7        | .35    | 6             | 200 to 350                 |
| 8        | .55    | 6 1/4         | 400 to 550                 |

Note: All anchors are subject to government tolerance of plus or minus 5% in weight.

### Folding Anchors

GALVANIZED MALLEABLE IRON

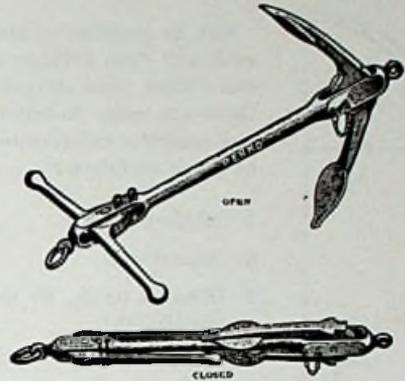


Fig. 226

| Weight Pounds | Each    | Length | Weight Pounds | Each    | Length |
|---------------|---------|--------|---------------|---------|--------|
| 4             | \$ 2.60 | 17     | 30            | \$12.80 | 34     |
| 6             | 2.85    | 19     | 35            | 15.00   | 36     |
| 8             | 3.85    | 22     | 45            | 19.00   | 38     |
| 10            | 4.80    | 23     | 55            | 23.00   | 41     |
| 12            | 5.60    | 25     | 76            | 31.00   | 44     |
| 15            | 6.80    | 28     |               |         |        |
| 20            | 8.80    | 30     |               |         |        |
| 25            | 10.80   | 33     |               |         |        |

### Non-Fouling Anchor

GALVANIZED DROP FORGED STEEL

The result of a great deal of experimenting and testing, the flukes are designed to bite and hold on the first pull of the cable, a weldless reinforcing under each fluke will prevent bending or breaking under maximum strain.

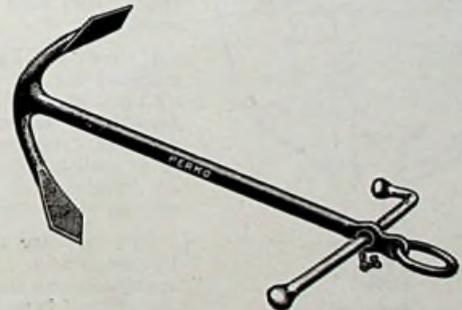
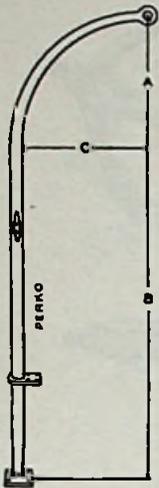


Fig. 236

| Weight Pounds | Galv. Each | Length Overall Inches |
|---------------|------------|-----------------------|
| 15            | \$ 4.00    | 29                    |
| 25            | 5.00       | 36                    |
| 35            | 6.75       | 40                    |
| 50            | 9.50       | 43                    |
| 60            | 11.50      | 44 1/2                |
| 75            | 14.25      | 46 1/2                |
| 100           | 19.00      | 50                    |
| 125           | 25.00      | 52 1/2                |
| 150           | 30.00      | 59                    |
| 200           | 40.00      | 65                    |

### Standard Boat Davits

GALVANIZED STEEL



Can be supplied in any size or with any type fittings required, and either solid or hollow. As these are made to order careful and complete information should be given as follows:

1. Solid or hollow.
2. Diameter.
3. Dimensions A, B, and C as illustrated.
4. Type of fittings required.
5. Height of cleat from lower end of davit.
6. Type of head required either eye for block or for sheave.

Fig. 934

PRICES ON APPLICATION

### Standard Anchor Davits

GALVANIZED STEEL

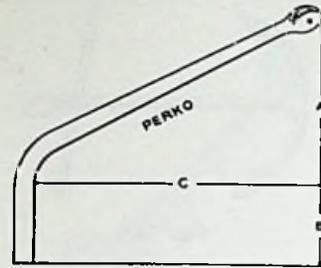


Fig. 936

Usually furnished with a socket deck plate extending through and below the deck, supplied with any type head required, give information as follows: 1, diameter; 2, dimensions A, B, and C as illustrated; 3, type of head; 4, maximum weight of anchor to be handled.

PRICES ON APPLICATION

### Curved Boat Davits

GALVANIZED STEEL

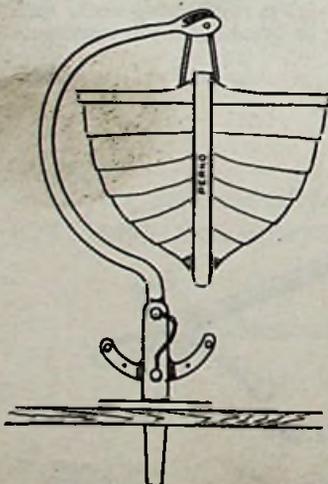


Fig. 935

Makes possible the carrying of a boat where it was thought there was no available space for such purpose.

Especially well adapted for use amidships on sailing yachts or across the stern of cruisers with after cabin. Economy of height and space are its chief features.

Special care should be exercised in the specifications for davits of this type and a complete dimensional description of the boat to be handled should be given.

When ordering for use on the stern of cruisers, a drawing must be furnished showing an exact arrangement of the space available between the after cabin and the stern, also points where davits are to be installed. Any projections beyond the stern (such as struts, rudder posts, etc.) should be shown. If decks are "crowned," the angle should be indicated.

PRICES ON APPLICATION

### Patent Locking Anchor Davits

BRONZE SUPPORTING BRACKETS

GALVANIZED DAVIT

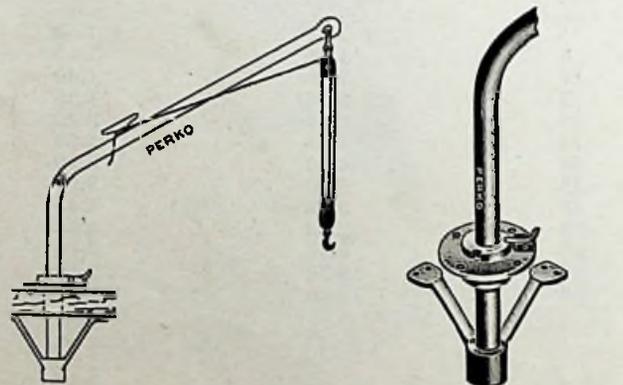


Fig. 937

Showing Bronze Base and Bracket

Notched collar and foot lever locking device, furnishes easy one man control and makes possible the locking of davit either to port, starboard or aft.

Assembly consists of heavy cast bronze supporting bracket for underneath deck, special socket and galvanized davit in any diameter from 1½ to 2½ inches.

Complete information should be furnished as follows: 1, diameter of davit; 2, dimensions A, B, and C as illustrated on Fig. 936; 3, maximum weight of anchor to be handled.

PRICES ON APPLICATION



# *Memorandums*

## MARINE LAMPS FOR THE HOME

A beautiful assortment of table lamps and fixtures for the homes of yachtsmen and others who desire the savor of the sea in their home decorations.

What would be more appropriate in yacht clubs, marine decorated dens or basements, as trophies for boat or yacht races, and especially in any room or office where pleasure or business has some connection with the sea and vessels that sail upon it.

All shades are hand painted in beautiful colors on parchment, leather laced.

All bases are brass and bronze, highly polished and lacquered.

All lamps wired with 6 feet silk covered cable and plug attached.

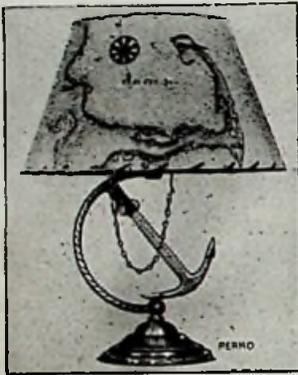


Fig. 1200

### "Cape Cod"

Ht. Overall, 15 in.  
Diam. Shade, 12 in.  
Diam. Base, 5 1/4 in.

Complete with Shade

EACH  
\$8.25

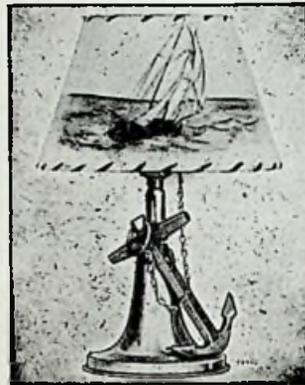


Fig. 1203

### "Sea Foam"

Ht. Overall, 12 1/2 in.  
Diam. Shade, 9 in.  
Diam. Base, 5 1/4 in.

Complete with Shade

EACH  
\$7.00

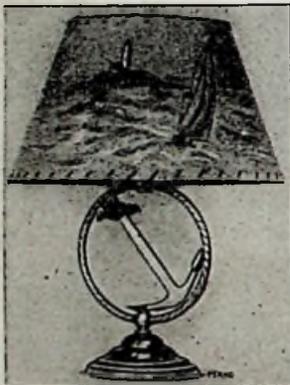


Fig. 1201

### "Roamer"

Ht. Overall, 15 in.  
Diam. Shade, 12 in.  
Diam. Base, 5 1/4 in.

Complete with Shade

EACH  
\$8.50

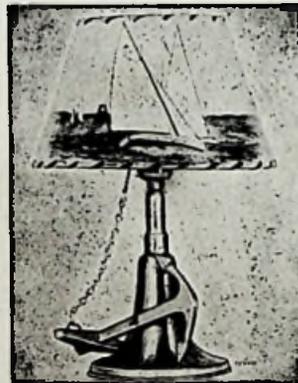


Fig. 1204

### "Bell Buoy"

Ht. Overall, 12 1/2 in.  
Diam. Shade, 9 in.  
Diam. Base, 5 1/4 in.

Complete with Shade

EACH  
\$7.00

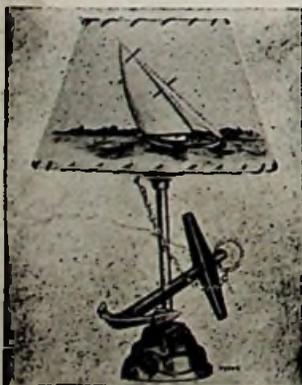


Fig. 1202

### "Zephyr"

Ht. Overall, 13 1/2 in.  
Diam. Shade, 9 in.  
Diam. Base, 3 1/2 in.

Complete with Shade

EACH  
\$7.25



Fig. 1205

### "Ventura"

Ht. Overall, 13 1/2 in.  
Diam. Shade, 9 in.  
Diam. Base, 3 1/2 in.

Complete with Shade

EACH  
\$7.50

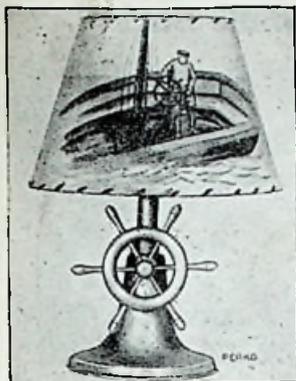


Fig. 1206

**"Mariner"**

Ht. Overall, 12½ in.  
Diam. Shade, 9 in.  
Diam. Base, 5¼ in.

Complete with Shade

EACH  
\$8.50



Fig. 1210

**"Wanderer"**

With two fresnel lenses, one red, one green, additional socket inside lenses, with switch.

Ht. Overall, 11 in.  
Diam. Shade, 8 in.  
Diam. Base, 4½ in.

Complete with Shade

EACH  
\$5.00

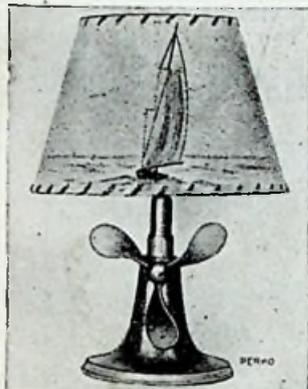


Fig. 1207

**"Sea Way"**

Ht. Overall, 12½ in.  
Diam. Shade, 9 in.  
Diam. Base, 5¼ in.

Complete with Shade

EACH  
\$7.25

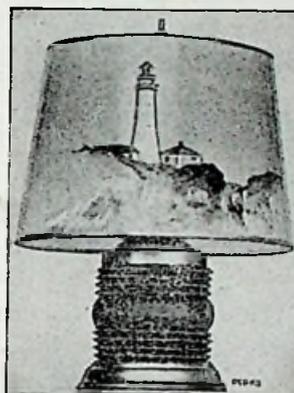


Fig. 1211

**"Hatteras"**

With green fresnel lens, additional socket inside lens, with switch.

Ht. Overall, 13 in.  
Diam. Shade, 11 in.  
Diam. Base, 6 in.

Complete with Shade

EACH  
\$8.00



Fig. 1208

**"Whaler"**

WITH CHIMNEY  
ELECTRIC

Ht. Overall, 13¼ in.  
Diam. Shade, 10 in.  
Diam. Base, 5¼ in.

Complete with Shade

EACH  
\$10.00



Fig. 1212

**"Oil Lamp"**

WITH SHADE  
WEIGHTED BASE

Ht. Overall, 15¼ in.  
Diam. Shade, 10 in.  
Diam. Base, 5¼ in.

Complete with Shade

EACH  
\$9.00

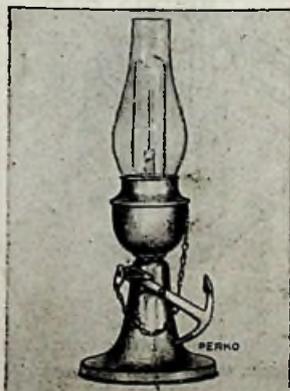


Fig. 1209

**"Clipper"**

WITH CHIMNEY  
ELECTRIC

Ht. Overall, 13¼ in.  
Diam. Base, 5¼ in.

Complete

EACH  
\$9.00



Fig. 1213

**"Oil Lamp"**

WITHOUT SHADE  
WEIGHTED BASE

Ht. Overall, 15¼ in.  
Diam. Base, 5¼ in.

Complete

EACH  
\$8.00

Lamps Figs. 1208, 1209, 1212, 1213 can be had without anchor ornament—deduct \$1.00 from above prices.

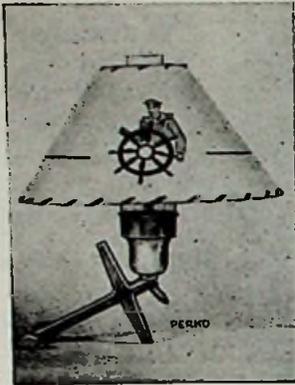


Fig. 1214

**"Skipper"**

WITH CHIMNEY  
ELECTRIC

Height Overall, 11 1/4 in.  
Diameter Shade, 10 in.  
Length Anchor, 6 in.

Complete with Shade  
EACH  
\$5.75

**Anchor Candle Sticks**

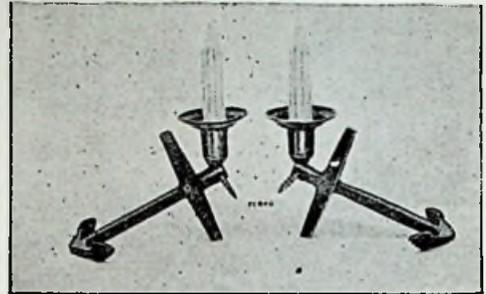


Fig. 1218

Length, 6 3/4 in.—Height, 4 1/2 in.  
Polished Cast Bronze—per pair ..... \$4.50

**Anchor Book Ends**

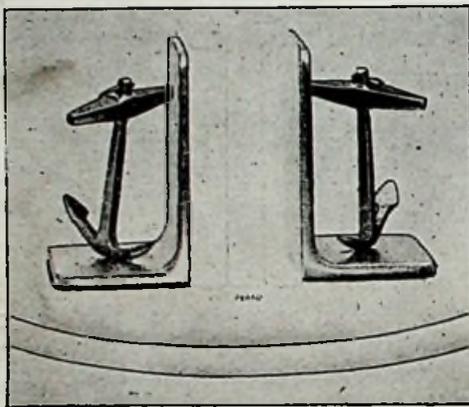


Fig. 1215

Height, 5 in.—Base, 3 1/2 x 3 in.  
Polished Cast Bronze—per pair ..... \$9.50

**Anvil Book Ends**

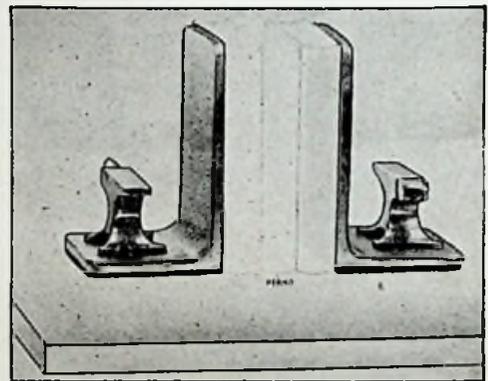


Fig. 1219

Height, 5 in.—Base, 3 1/2 x 3 in.  
Polished Cast Bronze—per pair ..... \$9.50

**Ashtrays**

POLISHED CAST BRONZE

Dory

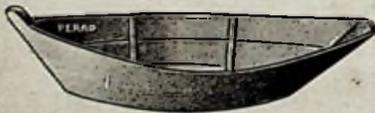


Fig. 1216

Whale Boat



Fig. 1217

Made in two styles as shown above, of cast bronze, highly polished, length overall—5 1/2 inches.

Price Per Dozen ..... \$6.00

**Anchor Andirons**

DULL BLACK FINISH

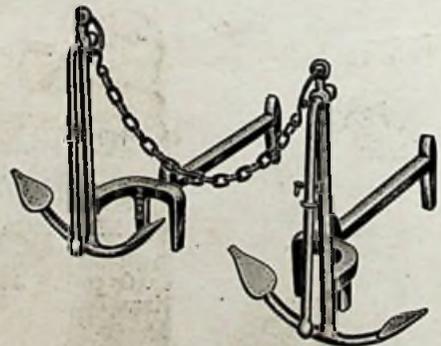


Fig. 1220

A pair of regular old style fisherman's anchors, mounted on legs and log guards.

| Price Per Pair | Height Inches | Width Inches | Depth Inches | Weight Pounds |
|----------------|---------------|--------------|--------------|---------------|
| \$10.00        | 17            | 31           | 20           | 25            |



## "PERKO" MARINE HOUSE FIXTURES

All constructed of heavy brass or copper, with original marine fresnel magnifying lens, glass dome bottom for reflecting light downward and standard screw sockets. All wired to meet requirements of fire underwriters, ready for installation:



Fig. 471

### Universal Pattern

With cast bronze ring in top for loose hanging from chain or wall bracket. Hinged dome bottom.

| No. | Height Inches | Diam. Inches | Size Globe Inches |
|-----|---------------|--------------|-------------------|
| 1   | 8½            | 4½           | 3¾ x 3¾           |
| 2   | 10½           | 5½           | 4¾ x 4¾           |

#### PRICE EACH

| No. | Polished Brass | Polished Copper |
|-----|----------------|-----------------|
| 1   | \$7.00         | \$ 9.00         |
| 2   | 8.50           | 10.50           |



Fig. 462

### Universal Pattern WITH IMPERIAL BRACKET

| No.           | 1         | 2         |
|---------------|-----------|-----------|
| Height        | 11"       | 13"       |
| Width         | 7½"       | 9½"       |
| Size globe    | 3¾" x 3¾" | 4¾" x 4¾" |
| Diam. bracket | 4½"       | 4½"       |

#### PRICE EACH

| No. | Polished Brass | Polished Copper |
|-----|----------------|-----------------|
| 1   | \$13.00        | \$14.00         |
| 2   | 14.50          | 15.50           |



Fig. 363

### Universal Pattern WITH COLONIAL BRACKET

Diameter bracket 4½ inches.

| No. | Size     |          |       |
|-----|----------|----------|-------|
|     | A Inches | B Inches | C In. |
| 1   | 8½       | 4½       | 3     |
| 2   | 10½      | 5½       | 4     |

#### PRICE EACH

| No. | Polished Brass | Polished Copper |
|-----|----------------|-----------------|
| 1   | \$ 9.00        | \$11.00         |
| 2   | 10.50          | 12.50           |



Fig. 442

### Marine Pattern

Half round body with flat back for mounting on wall or side of post. With front door for cleaning or re-bulbing and bracket.

| No. | Height Overall Inches | Width Inches | Size Lens Inches |
|-----|-----------------------|--------------|------------------|
| 1   | 11                    | 5            | 4¼ x 6½          |
| 2   | 13                    | 5½           | 5¼ x 7¾          |

#### PRICE EACH With Clear Lens

| No. | Galv.  | Brass  |
|-----|--------|--------|
| 1   | \$6.00 | \$7.50 |
| 2   | 7.50   | 9.50   |

With colored lens, red or green—add \$1.00 each.



Fig. 361

### Universal Pattern

WITH CEILING CANOPY  
Diameter canopy 4½ inches.

| No. | Diam. Canopy Inches | Size     |          |          |
|-----|---------------------|----------|----------|----------|
|     |                     | A Inches | B Inches | C Inches |
| 1   | 4½                  | 8½       | 4½       | 3        |
| 2   | 4½                  | 10½      | 5½       | 4        |

#### PRICE EACH

| No. | Polished Brass | Polished Copper |
|-----|----------------|-----------------|
| 1   | \$ 9.00        | \$11.00         |
| 2   | 10.00          | 12.00           |



Fig. 443

### Triangle Pattern

A triangular shaped body for mounting in corners. With front door for cleaning or re-bulbing and bracket.

| No. | Height Overall Inches | Width of Sides Inches | Size Lens Inches |
|-----|-----------------------|-----------------------|------------------|
| 1   | 11                    | 5¼                    | 4¼ x 4¼          |
| 2   | 13                    | 5½                    | 5¼ x 5¼          |

#### PRICE EACH With Clear Lens

| No. | Galv.  | Brass  |
|-----|--------|--------|
| 1   | \$6.00 | \$7.50 |
| 2   | 7.50   | 9.50   |

With colored lens, red or green—add \$1.00 each.

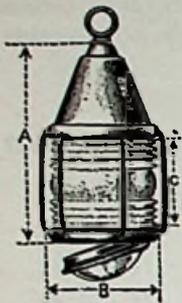
All of the above fixtures except Figs. 442 and 443 can be furnished with open bottoms, deduct \$1.00 from above prices.

With hinged solid bottoms, same price as dome bottoms.

Figs. 361, 363, 462, 471 with red, green, blue, or amber globes add \$2.00 to above prices.



### Colonial Pattern



With cast bronze ring in top for hanging from chain or wall bracket. Hinged dome bottom.

| No. | Size     |          |          |
|-----|----------|----------|----------|
|     | A Inches | B Inches | C Inches |
| 1   | 6½       | 3½       | 3        |
| 2   | 7¼       | 4¾       | 4        |
| 3   | 8        | 5½       | 5        |

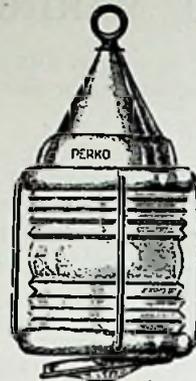
#### PRICE EACH

| No. | Polished Brass | Polished Copper |
|-----|----------------|-----------------|
| 1   | \$5.00         | \$ 7.00         |
| 2   | 6.00           | 8.00            |
| 3   | 9.00           | 11.00           |

Fig. 435

### Bishop Pattern

With cast bronze ring in top for hanging.



| No. | Height Inches | Diam. Inches | Size Globe Inches |
|-----|---------------|--------------|-------------------|
| 1   | 8             | 4¼           | 3¾ x 3½           |
| 2   | 8½            | 5¼           | 4¼ x 4¼           |

#### PRICE EACH

| No. | Polished Brass | Polished Copper |
|-----|----------------|-----------------|
| 1   | \$6.00         | \$8.00          |
| 2   | 7.00           | 9.00            |

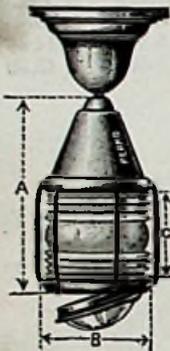
Fig. 518

With wall bracket as Fig. 362 or ceiling canopy as Fig. 360 add \$2.00 to above prices.

### Colonial Pattern

#### WITH CEILING CANOPY

Diameter canopy 4½ inches.



| No. | Size     |          |       |
|-----|----------|----------|-------|
|     | A Inches | B Inches | C In. |
| 1   | 6½       | 3½       | 3     |
| 2   | 7¼       | 4¾       | 4     |
| 3   | 8        | 5½       | 5     |

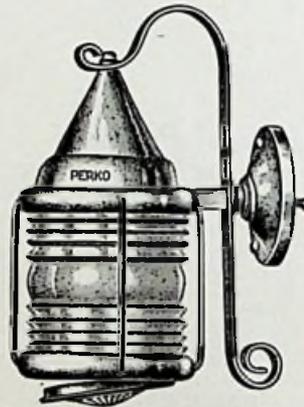
#### PRICE EACH

| No. | Polished Brass | Polished Copper |
|-----|----------------|-----------------|
| 1   | \$ 7.00        | \$ 9.00         |
| 2   | 8.00           | 10.00           |
| 3   | 11.00          | 13.00           |

Fig. 360

### Bishop Pattern WITH IMPERIAL BRACKET

Same lamp as Fig. 518 above, with spun wall plate 4½ inches in diameter.



| No. | Height Overall Inches | Width Overall Inches |
|-----|-----------------------|----------------------|
| 1   | 9¼                    | 7½                   |
| 2   | 10¾                   | 8½                   |

#### PRICE EACH

| No. | Polished Brass | Polished Copper |
|-----|----------------|-----------------|
| 1   | \$11.00        | \$13.00         |
| 2   | 12.00          | 14.00           |

Fig. 464

### Turret Pattern

With cast bronze ring for hanging. A regular ship's anchor light fitted up for fixture use.



| No. | Height Inches | Diam. Inches | Size Globe Inches |
|-----|---------------|--------------|-------------------|
| 22  | 17            | 7½           | 5¾ x 6            |
| 22½ | 18½           | 7½           | 6 x 6¾            |
| 23  | 21½           | 9½           | 7 x 8             |

#### PRICE EACH

| No. | Polished Brass | Polished Copper |
|-----|----------------|-----------------|
| 22  | \$25.00        | \$30.00         |
| 22½ | 27.00          | 32.00           |
| 23  | 33.00          | 42.00           |

Fig. 436

With red, green, or blue globes, add \$5.00 each.

### Ceiling Canopy and Chain

POLISHED BRASS OR COPPER



PRICE EACH

With 1 foot of Chain

| Polished Brass | Polished Copper |
|----------------|-----------------|
| \$2.50         | \$2.50          |

Fig. 558



Fig. 465

### "Perko" Novelty Anchors

POLISHED BRASS

As a lamp pull or fitting for the model yacht, this miniature anchor is very appropriate.



Fig. 837

2 inches long, per dozen, \$3.00

All of the house fixtures shown on these pages can be furnished with the above canopies and chain. Add price of canopy to price of lamp with ring in top as Figs. 471, 518, 439, etc.

For extra lengths of chain add \$1.00 for each additional foot or fraction thereof.

All of the above fixtures can be furnished with open bottoms, deduct \$1.00 from above prices.

With hinged solid bottoms, same price as dome bottoms.

All except Fig. 436 with red, green, blue, or amber globes, add \$2.00 to above prices.



### Knight Pattern

With cast bronze ring in top for hanging.

| No. | Height Inches | Diam. Inches | Size Globe Inches |
|-----|---------------|--------------|-------------------|
| 1   | 8½            | 4½           | 3¾ x 3½           |
| 2   | 12            | 5¾           | 4¼ x 4¼           |

#### PRICE EACH

| No. | Polished Brass | Polished Copper |
|-----|----------------|-----------------|
| 1   | \$7.00         | \$ 9.00         |
| 2   | 8.50           | 10.50           |

Fig. 519



### Royal Pattern

With clear globe and ring in top for hanging.

| No. | Height Inches | Width Inches | Diam. Globe Inches |
|-----|---------------|--------------|--------------------|
| 1   | 12            | 8            | 6                  |
| 2   | 16            | 10           | 8                  |
| 3   | 23            | 12½          | 10                 |

#### PRICE EACH

| No. | Polished Brass | Polished Copper |
|-----|----------------|-----------------|
| 1   | \$10.50        | \$11.50         |
| 2   | 13.00          | 14.50           |
| 3   | 23.50.         | 26.50           |

Fig. 437



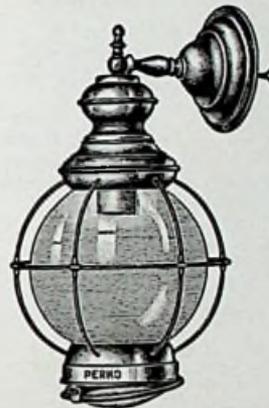
### Knight Pattern WITH DAVIT BRACKET

| No.              | 1       | 2       |
|------------------|---------|---------|
|                  | Inches  | Inches  |
| Height           | 10½     | 13      |
| Projection       | 8¾      | 10      |
| Size globe       | 3¾ x 3½ | 4¼ x 4¼ |
| Diam. wall plate | 4½      | 4½      |

#### PRICE EACH

| No.          | Polished Brass | Polished Copper |
|--------------|----------------|-----------------|
| 1            | \$11.00        | \$13.00         |
| 2            | 12.50          | 14.50           |
| Bracket only | 4.00           | 4.00            |

Fig. 440



### Royal Pattern

WITH COLONIAL BRACKET

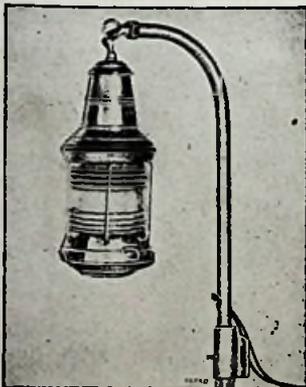
Diameter bracket 4½ inches.

| No. | Height Overall Inches | Diam. Wall Plate Inches |
|-----|-----------------------|-------------------------|
| 1   | 13                    | 4½                      |
| 2   | 17                    | 4½                      |
| 3   | 24                    | 4½                      |

#### PRICE EACH

| No. | Polished Brass | Polished Copper |
|-----|----------------|-----------------|
| 1   | \$12.50        | \$13.50         |
| 2   | 15.00          | 16.50           |
| 3   | 25.50          | 28.50           |

Fig. 438



### Knight Pattern WITH DAVIT BRACKET

| No.          | 1   | 2   |
|--------------|-----|-----|
|              | In. | In. |
| Height,      | 17  | 17  |
| Protection,  | 8½  | 9   |
| Diam. Globe, | 3¾  | 4¼  |

| No.           | Polished Brass Each | Polished Copper Each |
|---------------|---------------------|----------------------|
| 1             | \$11.00             | \$13.00              |
| 2             | 12.50               | 14.50                |
| Brackets only | 4.00                | 4.00                 |

Fig. 577



### Royal Pattern

WITH CEILING CANOPY

Diameter canopy 4½ inches.

| No. | Height Overall Inches | Diam. Canopy Inches |
|-----|-----------------------|---------------------|
| 1   | 12½                   | 4½                  |
| 2   | 16½                   | 4½                  |
| 3   | 24                    | 4½                  |

#### PRICE EACH

| No. | Polished Brass | Polished Copper |
|-----|----------------|-----------------|
| 1   | \$12.00        | \$13.00         |
| 2   | 14.50          | 16.00           |
| 3   | 25.00          | 28.00           |

Fig. 556

Royal pattern fixtures can be furnished with red, green, blue, or frosted globes. Add \$3.00 to above prices.

With red, green, blue, or amber globes, add \$2.00 each.

All of the above fixtures with open bottoms, deduct \$1.00 from above prices.

With hinged solid bottoms, same price as dome bottoms.

MARINE LAMPS FOR THE HOME, Etc.

The marine lamps and fixtures illustrated on these pages are all authentic marine items made for use on boats. Not imitations.

All lamps are solid brass—polished and lacquered—wired with six feet silk covered cable and plug attached. Standard screw socket for 110 volt system. Shades are hand painted on sail cloth, leather laced, in beautiful colors.

All lamps are equipped with switches to control inside bulb. Bases are covered with felt.



Fig. 1221

NAUTILUS

Height, 22"  
Diam. Base, 5 1/4"  
Diam. Shade, 17"  
Diam. Wheel, 12"

Bronze Steering Wheel. Hand painted antiqued egg shell parchment shade.

Complete with Shade Each \$16.00

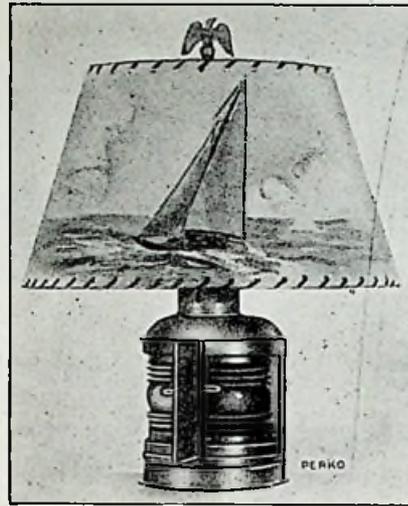


Fig. 1223

SEA PINE

Height, 17"  
Base, 5x5 1/2"  
Diam. Shade, 15"

Flat Back. Red and green glasses. Doors open. Light inside. Hand painted sail cloth shade.

Complete with Shade Each \$17.00

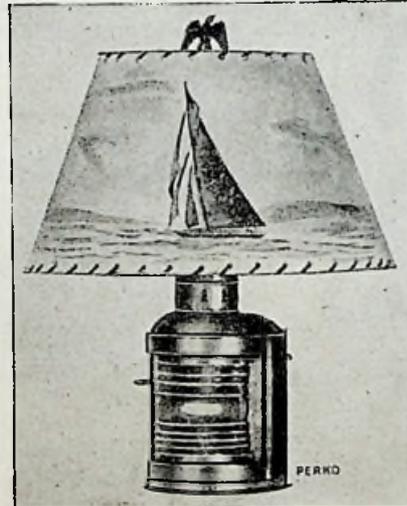


Fig. 1224

ALBATROSS

Height, 18 1/4"  
Base, 5x5 1/4"  
Diam. Shade, 15"

Flat back. Clear glass. Door opens. Light inside. Hand painted sail cloth shade.

Complete with Shade Each \$14.50

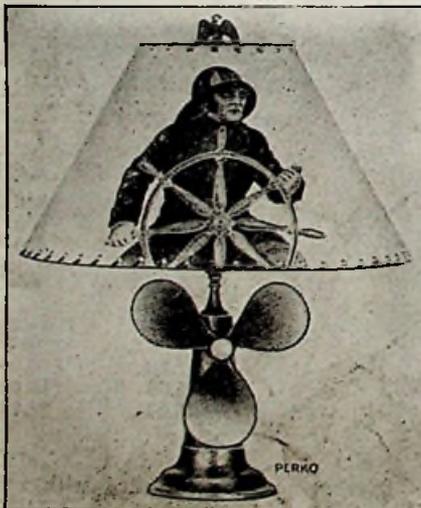


Fig. 1222

NORSEMAN

Height, 20"  
Diam. Base, 5 1/4"  
Diam. Shade, 17"  
Diam. Prop., 9"

Aluminum propeller. Hand painted sail cloth shade.

Complete with Shade Each \$15.50

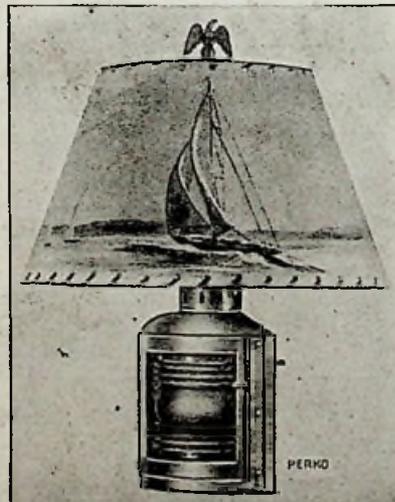


Fig. 1225

MIRAMAR

Height, 19"  
Base, 5x5"  
Diam. Shade, 15"

Corner back. Red or green glass. Door opens. Light inside. Hand painted sail cloth shade.

Complete with Shade Each \$14.50



Fig. 1226

**NAVIGATOR**

Height, 23"  
Diam. Base, 5 1/4"  
Diam. Shade, 19"  
Size Globe, 8x8"

Globe frosted.  
Light inside.  
Hand painted  
antiqued egg  
shell parch-  
ment shade.

Complete  
with Shade  
Each  
\$18.50

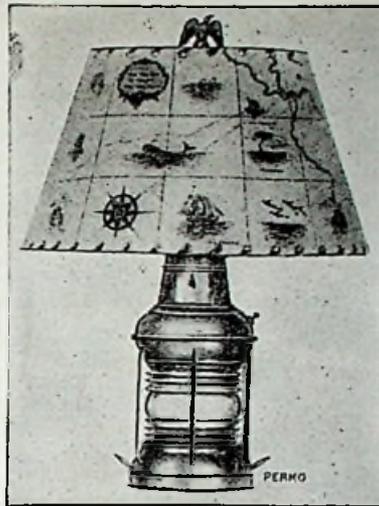


Fig. 1229

**NOMAD**

Height, 20"  
Diam. Base, 5 1/4"  
Diam. Shade, 15"  
Size Glass, 4x1 1/4"

Glass clear.  
Light inside.  
Hand painted  
sail cloth shade.

Complete  
with Shade  
Each  
\$14.50

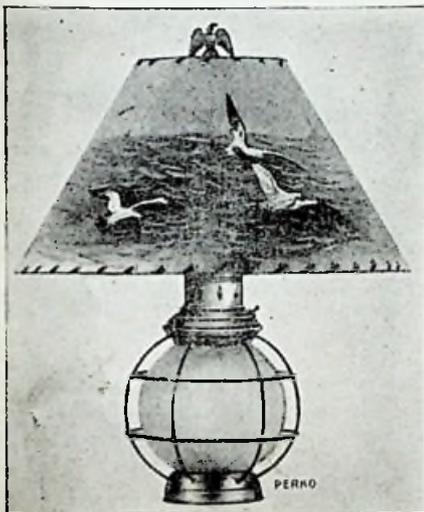


Fig. 1227

**SEA GULL**

Height, 19 1/2"  
Diam. Base, 4 1/4"  
Diam. Shade, 17"  
Size Globe, 6x6"

Globe frosted.  
Light inside.  
Hand painted  
sail cloth shade.

Complete  
with Shade  
Each  
\$16.00

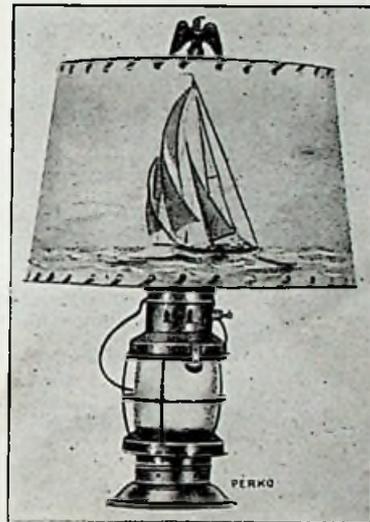


Fig. 1230

**SPINDRIFT**

Height, 17"  
Diam. Base, 4 3/4"  
Diam. Shade, 12"  
Size Globe, 3x1 1/4"

Globe frosted,  
Light inside. Hand  
painted sail cloth  
shade.

Complete  
with Shade  
Each  
\$11.00



Fig. 1228

**SPRAY**

Height, 21 1/2"  
Diam. Base, 5 5/8"  
Diam. Shade, 17"  
Size Globe, 4x6 1/2"

Globe frosted.  
Light inside.  
Hand painted  
sail cloth shade.

Complete  
with Shade  
Each  
\$15.00



Fig. 1231

**MAYFLOWER**

Height, 18 1/2"  
Diam. Base, 6"  
Diam. Shade, 12"

Bronze anchor and  
boat hook. Pen and  
ink antiqued egg  
shell parchment  
shade.

Complete  
with Shade  
Each  
\$14.00

All lamps on this page except Fig. 1231 can be had with Red, Green or Blue Globes, add \$1.00 to above prices—  
if clear globe is desired, deduct \$ .50 from above prices.

ALL SHADES ARE LEATHER LACED

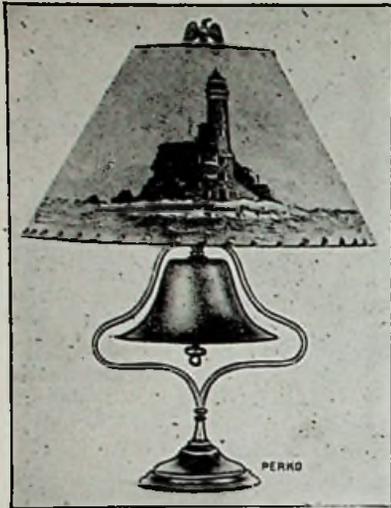


Fig. 1232

**NORTHERN LIGHT**

Height, 22"  
Diam. Base, 6"  
Diam. Shade, 17"  
Diam. Bell, 8"

Hand painted sailcloth shade.

Complete with Shade Each \$14.00

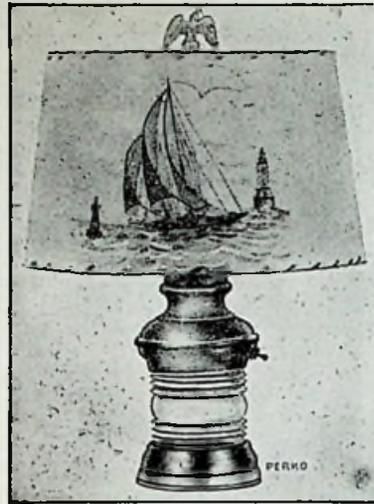


Fig. 1235

**RAINBOW**

Height, 16"  
Diam. Base, 4 1/4"  
Diam. Shade, 12"  
Size Glass, 3 3/4 x 3 1/2"

Glass clear. Light inside. Pen and ink antiqued egg shell parchment shade.

Complete with Shade Each \$8.75



Fig. 1233

**NORDIC**

Height, 19"  
Diam. Base, 6"  
Diam. Shade, 15"  
Diam. Bell, 6"

Hand painted sailcloth shade.

Complete with Shade Each \$12.50

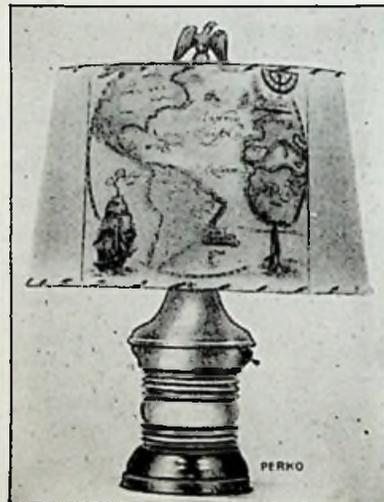


Fig. 1236

**DRIFT**

Height, 15"  
Diam. Base, 4 3/4"  
Diam. Shade, 12"  
Size Glass, 3 3/4 x 3 1/2"

Glass clear. Light inside. Pen and ink antiqued egg shell parchment shade.

Complete with Shade Each \$8.50

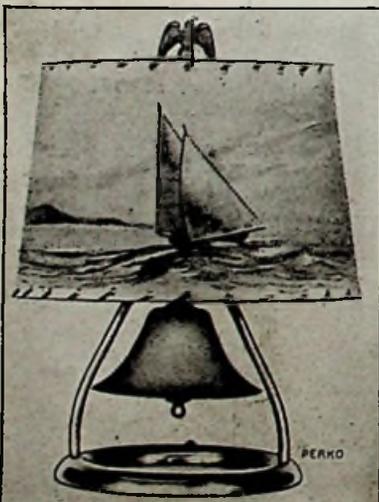


Fig. 1234

**SEA LURE**

Height, 10"  
Diam. Base, 8 1/4"  
Diam. Shade, 12"  
Diam. Bell, 6"

Hand painted sailcloth shade.

Complete with Shade Each \$10.00

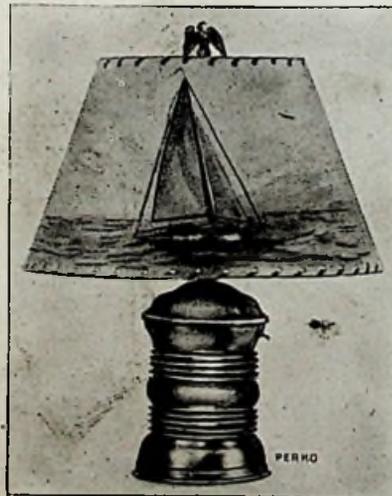


Fig. 1237

**TYPHOON**

Height, 18"  
Diam. Base, 6"  
Diam. Shade, 15"  
Size Glass, 4 1/4 x 4 1/4"

Glass green. Light inside. Hand painted sail cloth shade.

Complete with Shade Each \$12.00

Any of the above lamps can be had with Red, Green, Blue, Amber or Frosted Glasses, add \$1.00 to above prices.

ALL SHADES ARE LEATHER LACED



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| 2             |      | 67            | 78   | 132           | 49      | 197           | 85   |
| 3             | 4    | 68            | 75   | 133           | 49      | 198           | 85   |
| 4             | 9    | 69            | 75   | 134           |         | 199           | 85   |
| 5             | 9    | 70            | 53   | 135           | 40      | 200           | 70   |
| 6             | 9    | 71            | 92   | 136           | 35      | 201           | 111  |
| 7             | 9    | 72            | 48   | 137           | 35      | 202           | 70   |
| 8             | 41   | 73            | 89   | 138           | 35      | 203           | 74   |
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| 10            | 8    | 75            | 89   | 140           | 157     | 205           | 74   |
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| 14            | 32   | 79            | 30   | 144           | 73      | 209           | 70   |
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| 20            | 8    | 85            | 49   | 150           | 90      | 215           | 120  |
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| 34            | 26   | 99            | 165  | 164           | 89      | 229           | 134  |
| 35            | 26   | 100           | 155  | 165           | 88      | 230           | 74   |
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| 288           | 39   | 353           | 99     | 418           | 132  | 483           | 15   |
| 289           | 39   | 354           | 117    | 419           | 87   | 484           | 15   |
| 290           |      | 355           | 52     | 420           | 90   | 485           | 10   |
| 291           | 38   | 356           | 62     | 421           | 85   | 486           | 10   |
| 292           | 38   | 357           | 51     | 422           | 18   | 487           | 62   |
| 293           | 38   | 358           | 149    | 423           | 51   | 488           | 19   |
| 294           | 59   | 359           | 153    | 424           | 53   | 489           | 19   |
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| 296           | 59   | 361           | 183    | 426           | 169  | 491           | 15   |
| 297           | 60   | 362           |        | 427           | 43   | 492           | 16   |
| 298           | 100  | 363           | 183    | 428           | 43   | 493           | 123  |
| 299           | 146  | 364           | 177    | 429           | 43   | 494           | 118  |
| 300           | 39   | 365           | 177    | 430           | 79   | 495           |      |
| 301           | 39   | 366           | 168    | 431           | 125  | 496           | 17   |
| 302           | 43   | 367           | 85     | 432           | 146  | 497           | 54   |
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| 505           | 13   | 570           | 122  | 634           | 82   | 699           |      |
| 506           | 18   | 571           | 122  | 635           | 122  | 700           |      |
| 507           | 79   | 572           | 114  | 636           | 99   | 701           |      |
| 508           | 15   | 573           | 32   | 637           | 99   | 702           |      |
| 509           | 86   | 574           | 31   | 638           | 112  | 703           | 146  |
| 510           | 12   | 575           | 84   | 639           | 112  | 704           |      |
| 511           | 117  | 576           | 75   | 640           | 112  | 705           |      |
| 512           | 10   | 577           | 185  | 641           | 112  | 706           |      |
| 513           | 43   | 578           | 155  | 642           | 112  | 707           |      |
| 514           | 40   | 579           | 152  | 643           | 112  | 708           |      |
| 515           | 86   | 580           | 152  | 644           | 112  | 709           | 146  |
| 516           | 56   | 581           | 90   | 645           | 113  | 710           |      |
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| 520           | 91   | 585           | 152  | 649           | 110  | 714           | 80   |
| 521           | 18   | 586           | 135  | 650           | 110  | 715           | 98   |
| 522           | 140  | 587           | 39   | 651           | 110  | 716           | 98   |
| 523           | 140  | 588           | 38   | 652           | 110  | 717           | 52   |
| 524           | 70   | 589           | 46   | 653           | 98   | 718           | 52   |
| 525           | 72   | 590           | 16   | 654           | 98   | 719           | 52   |
| 526           | 87   | 591           | 16   | 655           | 79   | 720           |      |
| 527           | 87   | 592           | 57   | 656           | 150  | 721           | 69   |
| 528           | 87   | 593           | 152  | 657           | 94   | 722           | 69   |
| 529           | 60   | 594           | 153  | 658           | 65   | 723           | 70   |
| 530           | 63   | 595           | 91   | 659           | 65   | 724           | 71   |
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| 534           | 63   | 598           | 11   | 663           | 97   | 728           | 144  |
| 535           | 10   | 599           | 153  | 664           | 97   | 729           | 144  |
| 536           | 10   | 600           | 15   | 665           | 123  | 730           | 146  |
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| 539           | 149  | 603           | 17   | 668           | 123  | 733           | 38   |
| 540           | 149  | 604           | 45   | 669           | 124  | 734           | 105  |
| 541           | 122  | 605           | 57   | 670           | 124  | 735           | 38   |
| 542           | 119  | 606           | 11   | 671           | 101  | 736           | 38   |
| 543           | 118  | 607           | 118  | 672           | 101  | 737           | 94   |
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| 546           | 115  | 610           | 150  | 675           | 96   | 740           | 53   |
| 547           | 114  | 611           | 151  | 676           | 96   | 741           | 111  |
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| 549           |      | 613           | 168  | 678           | 96   | 743           | 111  |
| 550           |      | 614           | 120  | 679           | 100  | 744           | 82   |
| 551           | 174  | 615           | 120  | 680           | 150  | 745           | 52   |
| 552           | 174  | 616           | 120  | 681           | 69   | 746           | 52   |
| 553           | 58   | 617           | 120  | 682           | 66   | 747           | 51   |
| 554           | 58   | 618           | 141  | 683           | 66   | 748           | 51   |
| 555           | 58   | 619           | 141  | 684           | 66   | 749           | 51   |
| 556           | 185  | 620           | 141  | 685           | 66   | 750           | 51   |
| 557           | 80   | 621           | 141  | 686           | 68   | 751           | 54   |
| 558           | 184  | 622           | 139  | 687           | 74   | 752           | 54   |
| 559           | 11   | 623           | 139  | 688           | 74   | 753           | 54   |
| 560           | 85   | 624           | 139  | 689           | 56   | 754           | 54   |
| 561           | 13   | 625           | 143  | 690           |      | 755           | 54   |
| 562           | 31   | 626           | 143  | 691           |      | 756           | 54   |
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| 763           | 114  | 828           | 76   | 893           | 162  | 958           | 130  |
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| 775           | 130  | 840           | 130  | 905           | 98   | 970           | 50   |
| 776           | 132  | 841           | 130  | 906           | 105  | 971           | 50   |
| 777           | 132  | 842           | 168  | 907           | 93   | 972           | 50   |
| 778           | 82   | 843           | 48   | 908           |      | 973           | 50   |
| 779           | 150  | 844           | 48   | 909           | 93   | 974           | 50   |
| 780           | 82   | 845           | 34   | 910           | 91   | 975           | 50   |
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