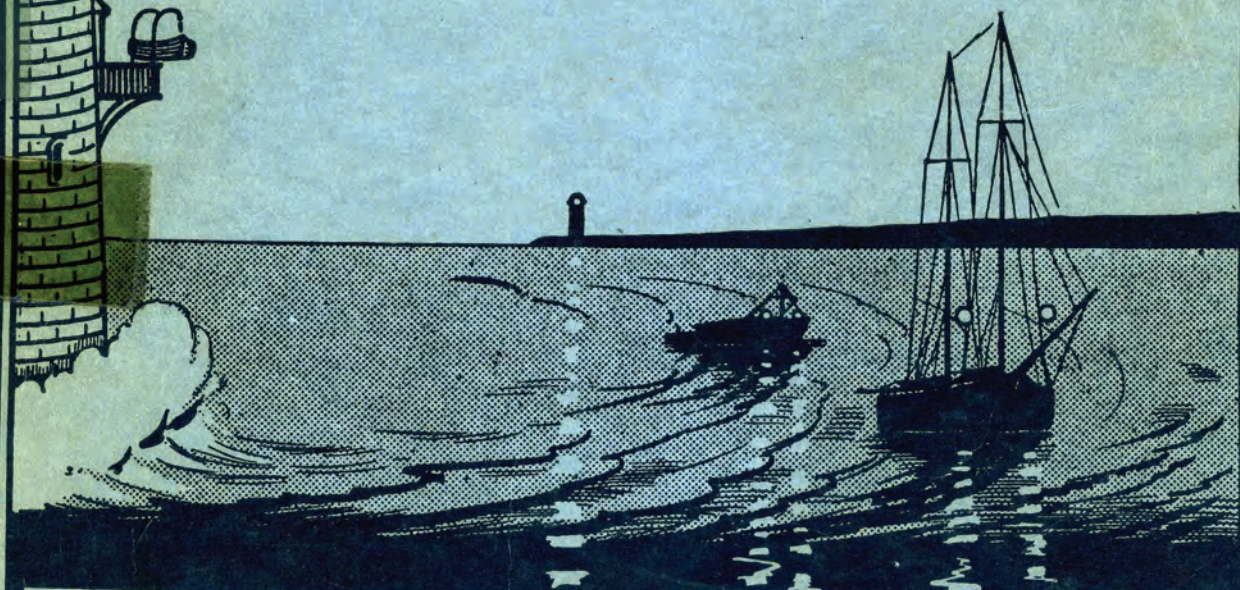


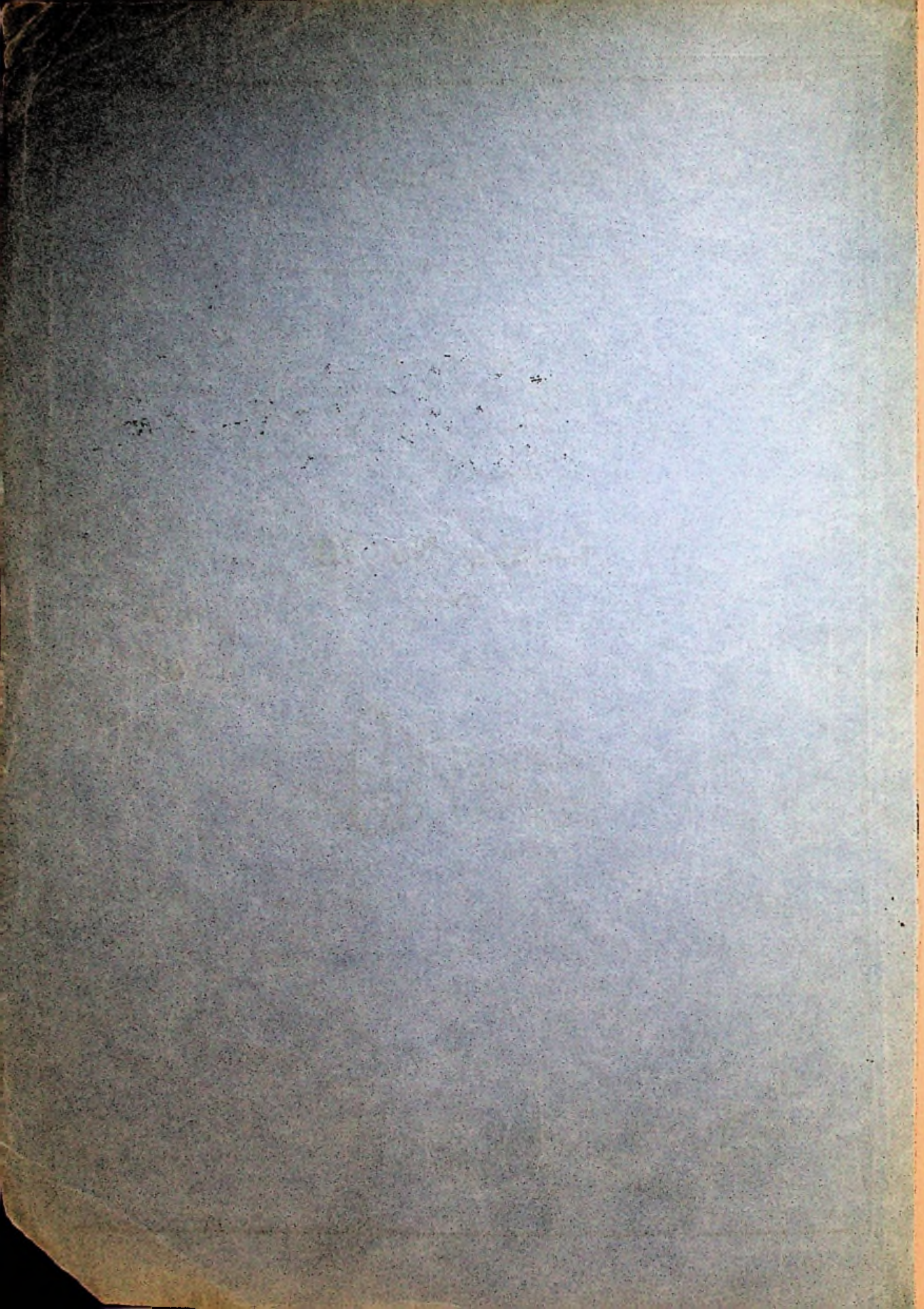


PERKO

CATALOG 70



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. 70

1935



REG. TRADE MARK

Branch Offices

231 SANSOME ST.
SAN FRANCISCO, CAL.

1027 MAGAZINE ST.
NEW ORLEANS, LA.

P. O. BOX 1257
TAMPA, FLORIDA

76 UNIVERSITY ST.
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 1934 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 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 gladly be made, provided the material is returned to our factory and repairs have not been attempted by other than our own workmen.

RETURN 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 INSTRUCTIONS

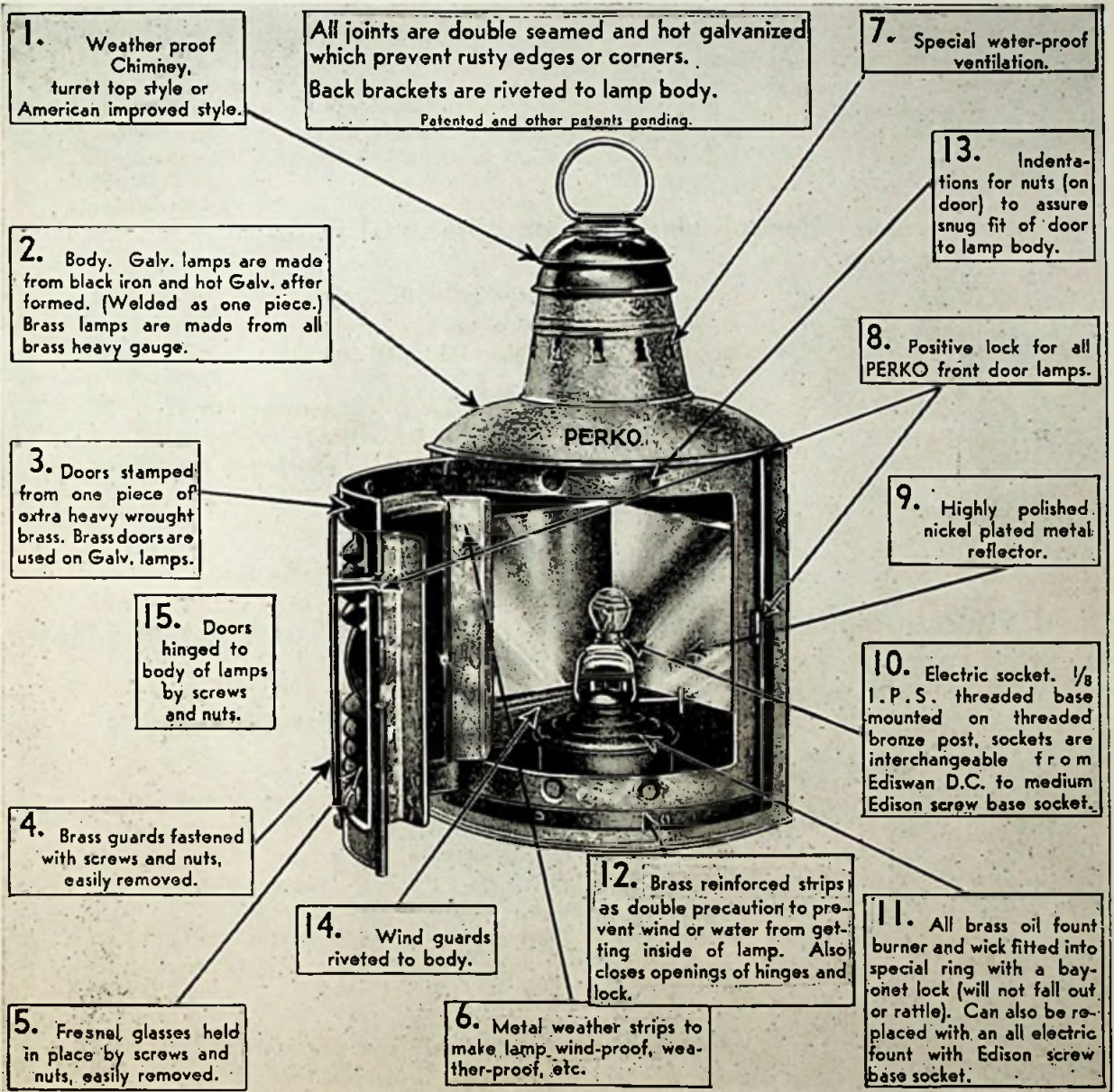
Customers should send specific shipping instructions. But if this is not done, we will use our own judgment in selecting route.

EXPORT ORDERS

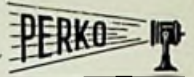
We are thoroughly familiar with the proper methods of handling orders and shipments to all parts of the world, and guarantee to do so to your satisfaction.



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 3/4 inches

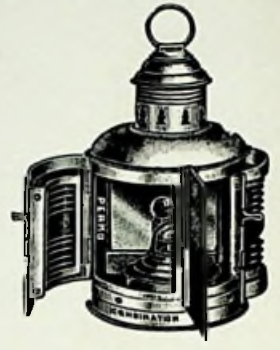
Measurements of base, 5 inches x 5 1/2 inches

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

Weight, 3 pounds



(Closed)



(Opened)

FIG. 0-1

Galvanized Each	Polished Brass Each	Nickel Plated Each	Chromium Plated 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 Each	Polished Brass Each	Nickel Plated Each	Chromium Plated 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 1/4 x 4 1/2 inches.

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

Weight, 3 3/4 pounds.

	Galvanized Each	Polished Brass 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

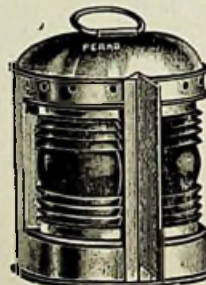


Fig. 3

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

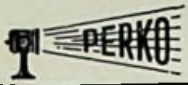
Galvanized Each	Polished Brass Each
\$4.25	\$5.75

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

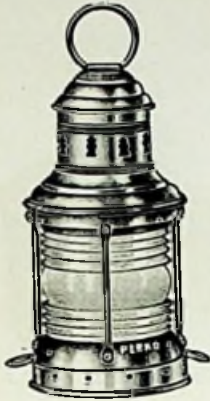


Fig. 0-2

CLEAR LENS

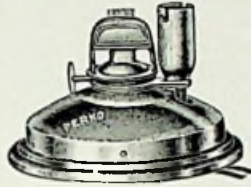


Fig. 735

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

Height Less Ring Inches	Diam. Base Inches	Size of Lens Inches	Weight Each Pounds
8 3/8	4 1/2	3 3/8 x 3 1/2	2

OIL OR ELECTRIC ONLY

Galv. Each	Polished Brass Each	Polished Copper Each	Nickel Plated Each	Chromium Plated Each
\$3.80	\$5.00	\$8.00	\$6.30	\$8.00

OIL AND ELECTRIC COMBINED

Galv. Each	Polished Brass Each	Polished Copper Each	Nickel Plated Each	Chromium Plated Each
\$4.30	\$5.50	\$8.50	\$6.80	\$8.50

With Red, Green, or Blue Lens add \$1.50 each.

"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 Less Ring Inches	Diam. Base Inches	Size of Lens Inches	Weight Each Pounds
11 3/4	5 3/8	4 1/4 x 4 1/4	3

OIL OR ELECTRIC ONLY

Galv. Each	Polished Brass Each	Polished Copper Each	Nickel Plated Each	Chromium Plated Each
\$4.75	\$6.50	\$9.50	\$7.50	\$10.00

OIL AND ELECTRIC COMBINED

Galv. Each	Polished Brass Each	Polished Copper Each	Nickel Plated Each	Chromium Plated Each
\$5.25	\$7.00	\$10.00	\$8.00	\$10.50

With Red, Green, or Blue Lens add \$2.00 each.

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 Height Inches	Diameter Fount Inches	Size of Lens Inches	Net Weight Lbs.
14	7	4 1/4 x 4 1/4	4

CLEAR LENS

	Galvanized Each	Polished Brass Each
Fig. 596, Lamp Complete	\$10.50	\$12.50
Fig. 596A, Fount Complete	7.00	7.00
Lamp Only Without Fount	7.00	8.00

With Red, Green, or Blue Lens add \$2.00 each.

For Burners and Chimneys only, see Page 42.

30 Day Anchor Light

ELECTRIC—DRY BATTERIES
GALVANIZED AND 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 Height Inches	Diameter Base Inches	Size of Lens Inches	Weight Pounds
16 1/2	6 3/4	4 1/4 x 4 1/4	5 1/2

CLEAR LENS

	Galvanized Each	Polished Copper Each
	\$10.50	\$15.00

With built in special flasher (30 flashes per minute), add \$5.00 each.

With Red, Green, or Blue Lens add \$2.00 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 4¼ 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 4¼ inches
Net weight, per pair, 5½ pounds

FIG. 0-40

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



(Closed)



(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

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



(Closed)

With clear lens
With colored lens



(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

Size of lens, 5¼ inches x 5½ inches
Height, less rings, 12¼ inches
Measurements of base, 5½ inches x 5½ 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



(Closed)



(Opened)

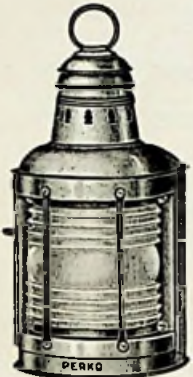
“Perko” De-Lite Bow Lights

TURRET TOP
CLASS 3—OIL AND ELECTRIC

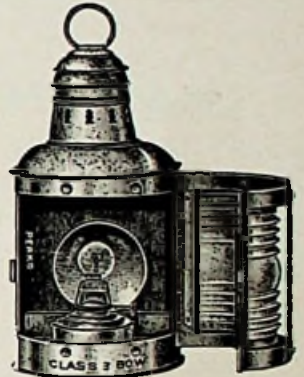
Size of lens, 5¼ inches x 7¼ inches
Height, less ring, 12¼ inches
Measurements of base, 5½ inches x 6½ inches
Weight, each, 4 pounds

FIG. 0-9

	Galvanized Iron Each	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
With clear lens	\$5.25	\$7.35	\$8.35	\$11.50
With colored lens	6.25	8.35	9.35	12.50



(Closed)



(Opened)

“Perko” De-Lite Side Lights

FLAT TOP
CLASS 3—OIL AND ELECTRIC

Size of lens, 5¼ inches x 5½ inches
Height, less ring, 8½ inches
Measurements of base, 5½ inches x 5½ 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, 5¼ inches x 7¼ inches
Height, less ring, 8½ inches
Measurements of base, 5½ inches x 6½ inches
Weight, each, 4 pounds

FIG. 0-90

	Galvanized Iron Each	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
With clear lens	\$5.25	\$7.35	\$8.35	\$11.50
With colored lens	6.25	8.35	9.35	12.50



(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, $4\frac{3}{4} \times 5\frac{1}{2}$ "
 Weight, per pair, $5\frac{1}{2}$ lbs.

	Galvanized Per pair	Polished Brass Per pair
Oil or Elec. Only	\$6.50	\$9.00
Oil and Electric	7.00	9.50
Extra for Hinge Bottoms	.50	.70

Old Style Class 2 Bow Lights

FOR BOATS 26 to 39 FEET LONG INCLUSIVE



Fig. 18

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

WITH CLEAR LENS

	Galvanized Each	Polished Brass Each
Oil or Elec. Only	\$3.25	\$4.50
Oil and Electric	3.50	4.75
Extra for Hinge Bottom	.25	.35

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 Per pair	Polished Brass Per pair
Oil or Elec. Only	\$9.00	\$13.20
Oil and Electric	9.50	13.70
Extra for Hinge Bottoms	.50	.70

Old Style Class 3 Bow Lights

FOR BOATS 40 TO 65 FEET LONG INCLUSIVE



Fig. 20

Size of Lens, $5\frac{1}{4} \times 5\frac{1}{2}$ "
 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 Each	Polished Brass Each
Oil or Electric Only	\$4.50	\$6.60
Oil and Electric	4.75	6.85
Extra for Hinge Bottom	.25	.35

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 Each	Polished Brass Each
Oil or Elec. Only	\$3.80	\$5.00
Oil and Electric	4.30	5.50

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

Old Style Class 2 and 3 Anchor Lights

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, $5\frac{5}{8}$ "
 Weight Each, 4 lbs.

CLEAR LENS

	Galvanized Each	Polished Brass Each
Oil or Elec. Only	\$4.75	\$6.50
Oil and Electric	5.25	7.00
Extra for Hinge Bottom	.25	.35

With Red, Green, or Blue Globes
 Add \$2.00 Each

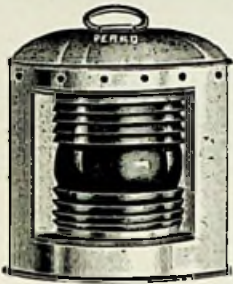


Old Style Class 2 Side Lights

FLAT TOP

FOR BOATS 26 TO 39 FEET LONG INCLUSIVE

OIL ONLY OR OIL AND ELECTRIC



Size of Lenses, $4\frac{1}{4} \times 4\frac{3}{4}$ "
 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 Per Pair	Polished Brass Per Pair
Oil or Elec.	\$6.50	\$9.00
Oil and Elec.	7.00	9.50
Extra for Hinge Bot- toms	.50	.70

Fig. 4

Old Style Class 2 Bow Lights

FLAT TOP

FOR BOATS 26 TO 39 FEET LONG INCLUSIVE

OIL ONLY OR OIL AND ELECTRIC



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 Each	Polished Brass Each
Oil or Elec.	\$3.25	\$4.50
Oil and Electric	3.50	4.75
Extra for Hinge Bottom	.25	.35

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

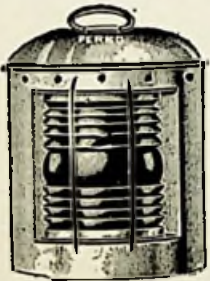
Fig. 5

Old Style Class 3 Side Lights

FLAT TOP

FOR BOATS 40 TO 65 FEET LONG INCLUSIVE

OIL ONLY OR OIL AND ELECTRIC



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

	Galvanized Per Pair	Polished Brass Per Pair
Oil or Elec.	\$9.00	\$13.20
Oil and Elec.	9.50	13.70
Extra for Hinge Bot- tom	.50	.70

Fig. 6

Old Style Class 3 Bow Lights

FLAT TOP

FOR BOATS 40 TO 65 FEET LONG INCLUSIVE

OIL ONLY OR OIL AND ELECTRIC



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 Each	Polished Brass Each
Oil or Elec.	\$4.50	\$6.60
Oil and Electric	4.75	6.85
Extra for Hinge Bottom	.25	.35

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

Fig. 7

Old Style Stern Lights

FLAT TOP—CLEAR LENS

FOR CLASS 1 BOATS—LESS THAN 26 FEET LONG



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.

ELECTRIC ONLY	
Galvanized Each	Polished Brass Each
\$3.80	\$5.00

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

Fig. 11

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



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

	Galvanized Each	Polished Brass Each
Oil or Elec.	\$4.75	\$6.50
Oil and Electric	5.25	7.00
Extra for Hinge Bottom	.25	.35

With Red, Green, or Blue Lens
 Add \$2.00 Each

Fig. 12



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.
4 1/2	2 1/2	2	2 1/2 x 3	1
Polished Brass Each		Nickel Plated Each		Chromium Plated Each
\$3.75		\$4.00		\$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	2 1/2	2 1/2 x 3	1
Polished Brass Each		Nickel Plated Each	Chromium Plated Each
\$3.75		\$4.00	\$5.50

Streamline Pattern
WITHOUT REBULBING FEATURE
CAST BRONZE, NICKEL SILVER AND ALUMINUM

Same size as Fig. 512, except that bulb is changed by removing the lamp from the deck.



Fig. 536

Height Inches	Base Inches	Lens Inches	Flagpole Socket Inch	Weight Lbs.
3 1/2	3 3/8 x 5 3/8	2 1/2 x 3	5/8	1 1/4
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Nickel Silver Each	Polished Aluminum Each
\$5.00	\$5.50	\$6.50	\$5.50	\$5.00

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.
3 1/2	3 3/8 x 5 3/8	2 1/2 x 3	5/8	1 1/4
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

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. 535

Height Inches	Base Inches	Lens Inches	Flagpole Socket Inches	Length Cleat Inches	Wt. Lbs.
3 1/2	3 3/8 x 5 3/8	2 1/2 x 3	5/8	2 1/2	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.



Fig. 598



Rear view showing method of changing bulb

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.



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	3/8	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 1/2	3 x 4 1/4	3 3/8 x 3 3/8	2 1/4
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 5/8	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.

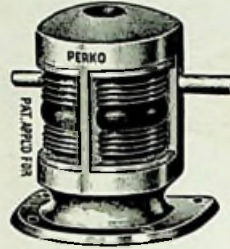
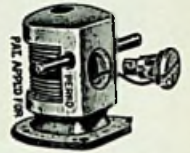


Fig. 510



Rear view showing method of changing bulb

Height Inches	Base Inches	Lens Inches	Flagpole Socket Inches	Weight Lbs.
5 5/8	4 7/8 x 4 7/8	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.

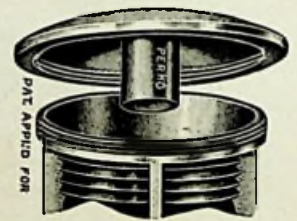


Fig. 502 Closed

Height Inches	Diam. Base Inches	Size Lens Inches	Flagpole Socket Inches	Weight Lbs.
4 7/8	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.

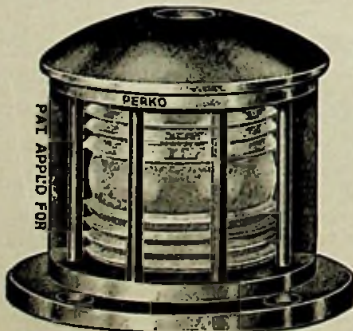


Fig. 503

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. This feature is illustrated on Fig. 510 preceding page.

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

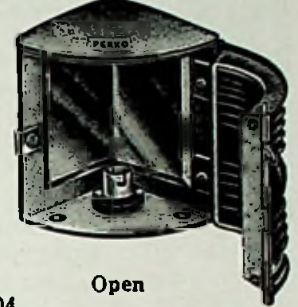
WITH FRONT DOORS
FOR CLASSES 2 AND 3 BOATS
CAST BRONZE AND NICKEL SILVER

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	\$12.00	\$14.00	\$11.00
3	13.00	15.00	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.

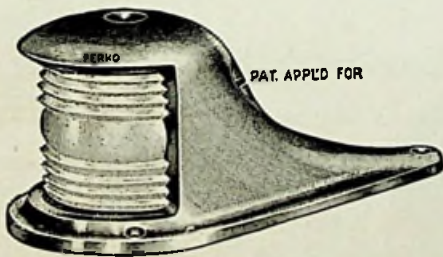


Fig. 561

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 3/8 x 9 3/8	4 1/4 x 6 1/2	4 3/4	1 or 1 1/4
3	6 3/8	6 5/8 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	\$6.00	\$7.00	\$5.50
3	6.50	7.50	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	

Sail Boat Side Lights

SPECIAL SMALL SIZE

FOR CLASS 1 BOATS—LESS THAN 26 FT. LONG



Fig. 845

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

Size of Lens Inches	Extreme Height Inches	Diam. of Base Inches	Weight Per Pair Pounds
3 3/8 x 3 3/8	9	4 1/4	4

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
	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

Navy or Life Boat Lantern

OIL ONLY



Fig. 49

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.

Height of Lantern Inches	Diam. of Base Inches	Size of Globe Inches	Net Weight Each Lbs.
11	5 5/8	4 x 6 1/2	3

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 3/4 x 5 1/2	1
Class 2	5	4 1/4 x 6 1/2	1 1/2
Class 3	6	5 1/4 x 7 1/4	2
	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

	Galvanized Each	Pol. Brass Each
With Clear Globe	\$2.50	\$5.00
With Ruby, Green or Blue Globe	4.00	6.50

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
	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

Engineer's Hand Lantern

OIL ONLY



Fig. 50

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.

Height of Lantern Inches	Diam. of Base Inches	Size of Globe Inches	Net Weight Each Lbs.
9 1/2	4 1/2	2 1/2 x 4 1/4	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

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
\$2.50	\$2.75	\$3.50



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
\$2.50	\$2.75	\$3.50



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
\$2.50	\$2.75	\$3.50



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
\$2.50	\$2.75	\$3.50

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	\$2.50	\$3.00	



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	\$2.50	\$3.00	



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
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
\$3.50	\$3.75	\$4.75	



Fig. 484

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

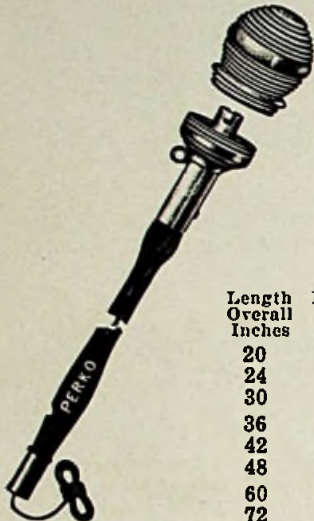
Outside Diam. Globe Inches	Height Overall Inches	Inside Diam. Neck Inches	Weight Lbs.
2½ or 3	5	¾	1
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
\$3.50	\$3.75	\$4.75	



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.



Length Overall Inches	Diameter Base Inches
20	1 or 1¼
24	1 or 1¼
30	1 or 1¼
36	1 or 1¼
42	1 or 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

Fig. 492

NOTE—Furnished with wire outlet in side of pole instead of bottom if desired.

Smaller lengths, 20 to 42 inches, Fig. 492 and 537, 1 inch base is furnished unless otherwise specified. 2½ inch globes furnished unless 3 inch is specified.

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.



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.

Fig. 537

Colored globes (red, green or blue) desired on any of the above pole lights, add \$.75 to above prices.

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.



Length Overall Inches	Diam. Base of Pole Inches
20	1 or 1¼
24	1 or 1¼
30	1 or 1¼
36	1 or 1¼
42	1 or 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

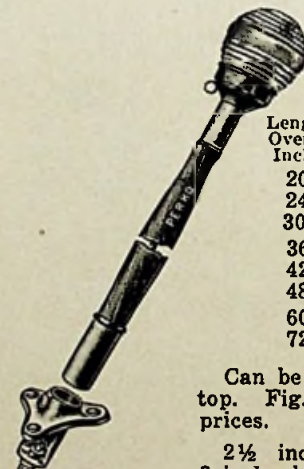
Fig. 590

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

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.



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

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

2½ inch globes furnished unless 3 inch globe is specified.

Fig. 591

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

Can be furnished with cast bronze top, Fig. 498. Add \$1.00 to above prices. 2 1/2 inch globes furnished unless 3 inch is specified.

Flag Pole Lights

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

An extra small size fresnel globe, 1 3/8 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.

Flag Pole Lights

ELECTRIC ONLY—HOLLOW BRASS POLE

With 1 1/8 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

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	Outside Diam. Pole Inches	Weight Lbs.
24	1 1/8	1 1/4
30	1 1/8	1 1/2

Length Inches	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
24	\$4.25	\$4.75	\$5.75
30	4.75	5.25	6.75

Junior Pole Light Assembly

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

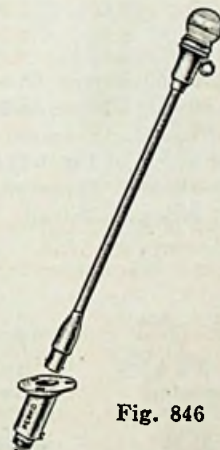


Fig. 846

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	\$5.50	\$6.00	\$7.00	1 3/8	3/4
30	6.00	6.50	7.50	1 3/8	3/4

Mahogany Flag Poles

Turned from solid seasoned mahogany. Natural finish—varnished.



Fig. 496

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

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.

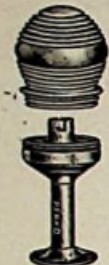


Fig. 422

Height Overall Inches	Diam. Base Inches	Diam. Globe Inches	Weight Oz.
7	2½	2½ or 3	12
Polished Brass Each		Nickel Plated Each	Chromium Plated Each
\$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 AND NICKEL SILVER

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

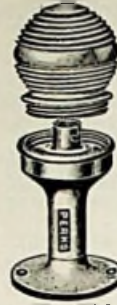


Fig. 506

Height Overall Inches	Diam. Base Inches	Diam. Globe Inches	Weight Oz.
6½	1½	2½ or 3	18
Polished Bronze Each	Nickel Plated Each	Nickel Silver Each	Chromium Plated Each
\$4.00	\$4.25	\$4.50	\$5.50

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

2½ inch globes furnished unless 3 inch are requested.

Stern Lights

CAST BRONZE AND NICKEL SILVER



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 3¾	2½
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Nickel Silver Each	
\$7.00	\$8.00	\$9.00	\$8.00	

With red, green or blue lens, add \$1.50 Each.
Furnished with standard screw socket at above prices if desired.

Mast Lights

CAST BRONZE AND NICKEL SILVER



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 3¾	1¾ or 1½	2
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Nickel Silver Each	
\$6.50	\$7.50	\$8.50	\$7.50	

With red, green or blue lens, add \$1.50 each.
Furnished with standard screw sockets at above prices if desired.

Stern Lights

WITH THREADED BASE GLOBE

CAST BRONZE



Fig. 112

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

Height Overall Inches	Diam. Base Inches	Size of Globe Inches	Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
8¾	3⅞	5x3½	\$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



Fig. 113

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

Height Overall Inches	For Diam. Mast Inches	Size of Globe Inches	Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
9	2⅞	5x3½	\$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 1/4	2 1/2 x 1 1/2	1 1/2
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
\$5.00	\$5.50	\$7.00	

Furnished with 2 inch diameter round base if desired.

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 1/2	2 1/2	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

Mast or Pole Light

CAST BRONZE



Fig. 564

Threaded base, fresnel ball globe, cast bronze base, threaded 1/2 or 1 1/4 inch pipe size, standard Edison screw electric socket.

Outside Diam. Globe Inches	Height Overall Inches	Opening of Globe Inches	Weight Lbs.
4 1/4	5 1/2	2 1/2	1 1/2
Bottom Opening 1/2 inch I. P. S.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
1 1/4 inch I. P. S.	\$5.00	\$5.50	\$7.00
	5.50	6.00	7.50

Mast, Anchor, or Signal Light

CAST BRONZE

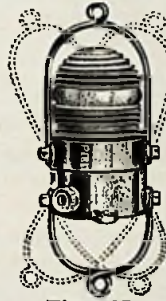


Fig. 105

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

Special Pole Light



Fig. 470

Complete with switch, double contact electric socket, fresnel ball globe, hexagon nut fitted to base threaded 1/2 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.
2 1/2 or 3	4 1/2	10
Polished Brass Each	Nickel Plated Each	Chromium Plated Each
\$2.75	\$3.00	\$3.75

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 1/2	2 1/2	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



225 Degree or 20 Points of Compass

MASTHEAD, TOWING OR RANGE LIGHTS

American Improved Style

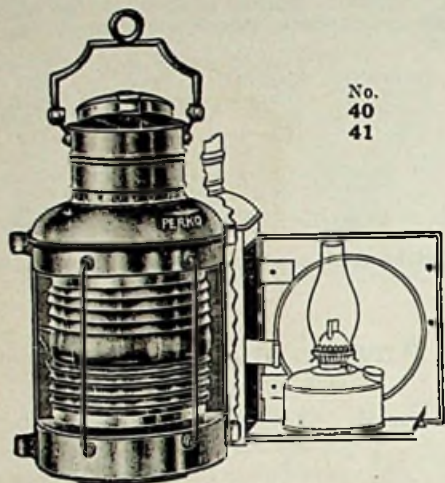


Fig. 981

OIL ONLY—OIL AND ELECTRIC OR ELECTRIC ONLY

No.	Size of Lens		Extreme Height Less Handle Inches	Size Base Inches	Centers of Lugs Inches
	Height Inches	Circum. Inches			
40	6 5/8	12 7/8	14 1/2	7x7 1/2	8 1/2
41	7	17 1/4	18 1/4	9x9 3/4	10 3/4

PRICE EACH—CLEAR LENS

No.	Galvanized Iron	Polished Brass	Polished 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.



Fig. 982

Turret Top Style

OIL ONLY—OIL AND ELECTRIC OR ELECTRIC ONLY

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

PRICE EACH—CLEAR LENS

No.	Galvanized Iron	Polished Brass	Polished 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.

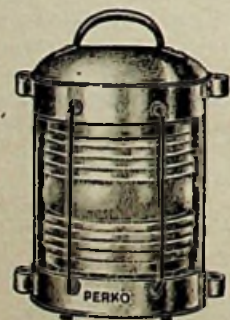


Fig. 983

Flat Top Electric Style

ELECTRIC ONLY

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

PRICE EACH—CLEAR LENS

No.	Galvanized Iron	Polished Brass	Polished 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

Turret Top Style

Flat Top Electric Style

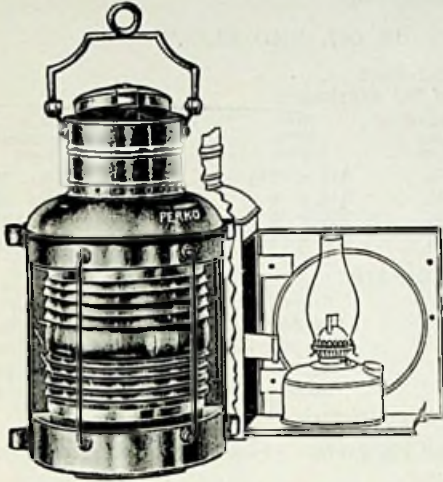


Fig. 984



Fig. 985



Fig. 986

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

FOR PRICES AND SIZES

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

FOR PRICES AND SIZES

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

FOR PRICES AND SIZES

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
Bulb only—100-100 watts
Socket only

Each
\$4.80
5.00
1.50

Height Bulb Overall
Diameter Bulb

Inches
5
3¹/₈



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	10¼	6½ x 8	15	76 to 95
10	6¾	9	17½	11½	7½ x 9	17	96 to 125
11	7½	11½	21¼	13¾	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	13¾	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	5½	6	17	11	7½	9	65 to 95
22½	6¾	6	18½	12½	7½	10	96 to 125
23	7	8	21¼	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



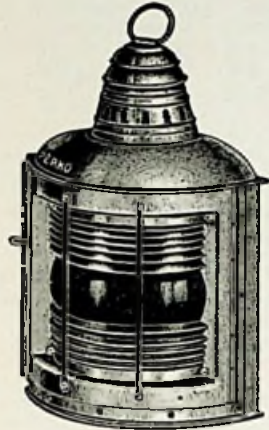
"Perko" Turret Top De-Lite Running Lights

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

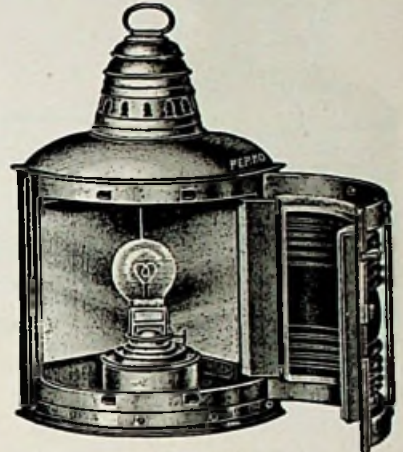
NO. 10 SIZE

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 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.



(Opened)

180 Degree De-Lite Bow Lights

NO. 15 SIZE

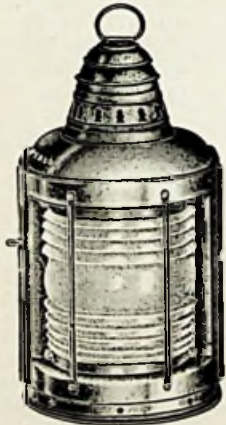
Extreme height, 17 inches
Height of frame, 11 inches
Width, 7½ inches x 7 inches
Size of lens, 6¾ inches x 9½ inches
Net weight, each, 9 pounds

PRICE EACH—CLEAR LENS

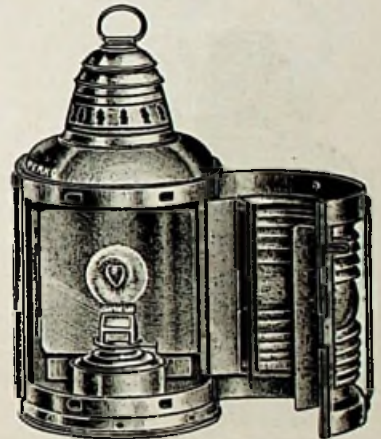
	Galvanized Iron	Polished Brass	Polished Copper
Oil or Electric	\$13.50	\$19.50	\$25.00
Oil and Electric	15.00	20.50	26.50

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 Iron	Polished Brass	Polished 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.

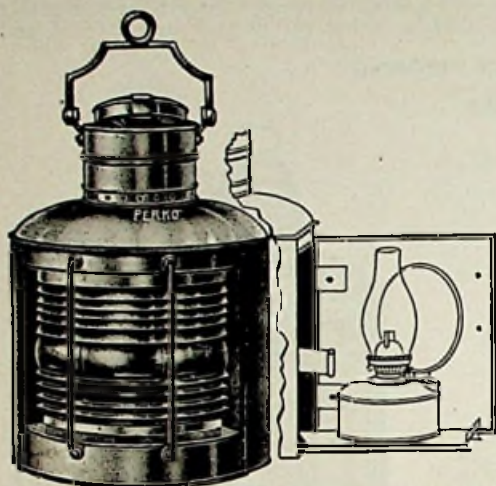


Fig. 24

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	Clr. Inches	Extreme Height Inches	Height of Frame Inches	Width Inches	Weight per Pair Lbs.	For Size Boat Feet
62	5½	8½	13½	10½	6½ x 7¾	18	75 to 95
63	6¾	9	15	11¾	7¾ x 8¾	21	96 to 125
64	7½	11½	18	13½	9½ x 11½	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	Clr. Inches	Extreme Height Inches	Height of Frame Inches	Width Inches	Weight Each Lbs.	For Size Boat Feet
76	5½	9½	14	11	7 x 7	10	65 to 95
77	6¾	9½	15	11¾	7 x 7	11	96 to 125
78	7	12½	18	13½	9 x 9½	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.

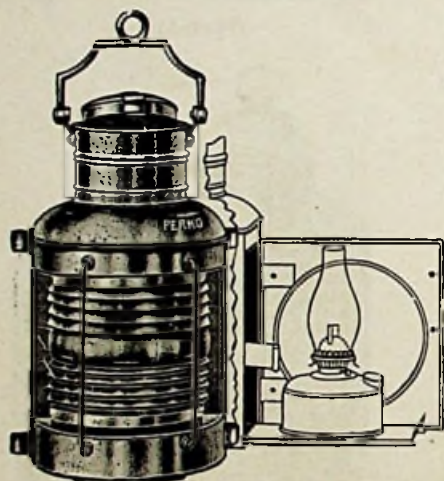


Fig. 25

Anchor or Riding Lights

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

Lamp Nos.	Size of Lens—Height Inches	Diam. Inches	Extreme Height Inches	Height of Frame Inches	Diam. of Base Inches	Weight Each Lbs.	For Size Boat Feet
84	5½	6	13¾	11¼	7¼	10	65 to 95
85	6¾	6	15¾	12¾	7¼	12	96 to 125
86	7	8	17	13¾	9½	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.

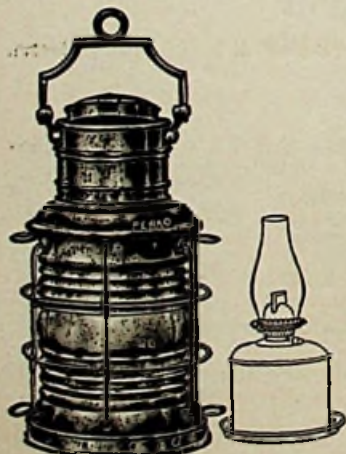


Fig. 26

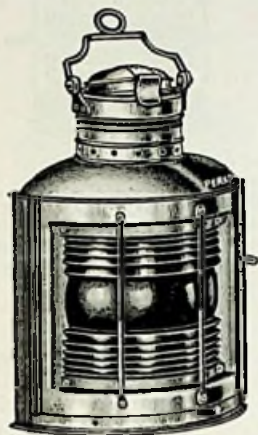
"Perko" American Improved De-Lite Running Lights

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



(Closed)
Fig. 0-24

Furnished } Red for Port
in Pairs } Green for Starboard

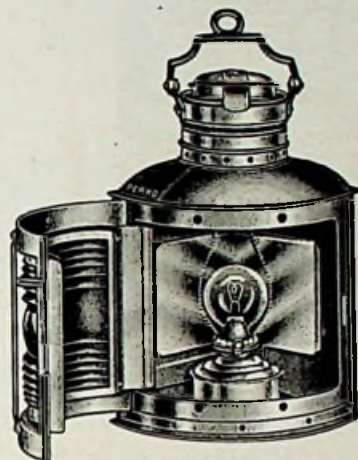
NO. 63 SIZE

Extreme height, 15 inches
Height of frame, 11 1/4 inches
Width, 7 3/4 inches x 8 3/4 inches
Size of lens, 6 3/4 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.



(Opened)

180 Degree De-Lite Bow Lights

NO. 77 SIZE

Extreme height, 15 inches
Height of frame, 11 3/4 inches
Width, 7 inches x 7 inches
Size of lens, 6 5/8 inches x 9 1/2 inches
Weight, each, 11 pounds

PRICE EACH—CLEAR LENS

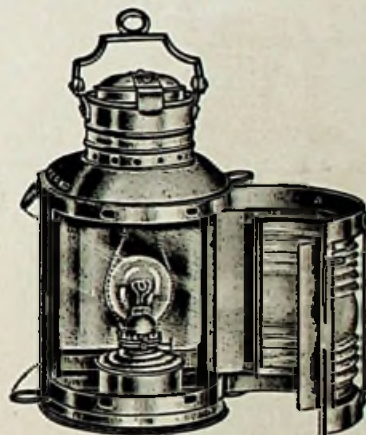
	Galvanized Iron	Polished Brass	Polished Copper
Oil or Electric	\$22.00	\$26.00	\$29.00
Oil and Electric	24.50	28.50	31.50

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 3/4 inches
Height of frame, 12 3/4 inches
Diameter of base, 7 1/4 inches
Size of lens, 6 3/4 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.

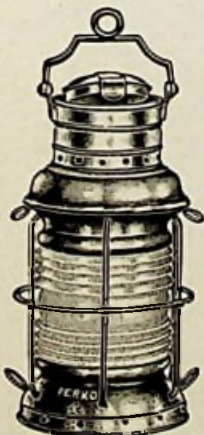


Fig. 0-26



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 3/4 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

180 DEGREE BOW LIGHTS

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 5/8 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 3/8 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

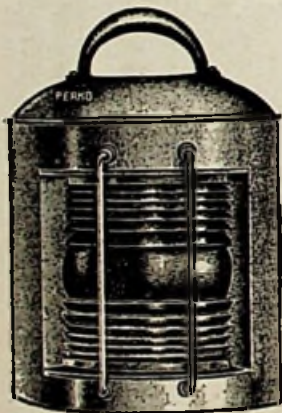


Fig. 33



Fig. 34



Fig. 35

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

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

Anchor Light—Fig. 35	Size of Lens Inches	Height less Handle Inches	Extreme Height Inches	Diameter Inches	Net Weight Each Lbs.	Price Each, Clear Lens		
						Brass	Copper	
	7 x 8	12 3/8	15 1/2	9 1/2	15	\$26.50	\$34.00	
				With Ruby, Green or Blue Lens		31.50		39.00

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

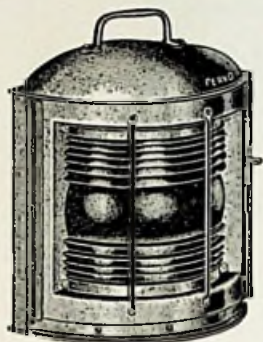
NO. 110 SIZE

Extreme height, 14¼ inches
Height, less handle, 11¼ inches
Width, 7¾ inches x 9 inches
Size of lens, 6¾ inches x 9 inches
Net weight, per pair, 15½ pounds

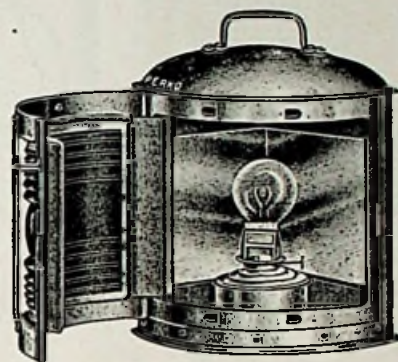
PRICE PER PAIR

	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, 11¼ inches
Width, 7½ inches x 7 inches
Size of lens, 6½ inches x 9½ inches
Net weight, each, 6½ pounds

PRICE EACH—CLEAR LENS

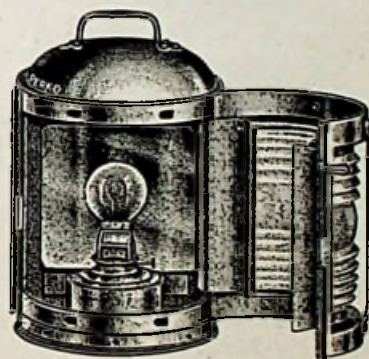
	Galvanized Iron	Polished Brass	Polished Copper
Oil or Electric	\$13.50	\$19.00	\$25.00
Oil and Electric	15.00	20.50	26.50

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, 14¼ inches
Height, less handle, 12¼ inches
Diameter of base, 7½ inches
Size of lens, 6 inches x 6½ 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.

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



Fig. 0-29



Fig. 335

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

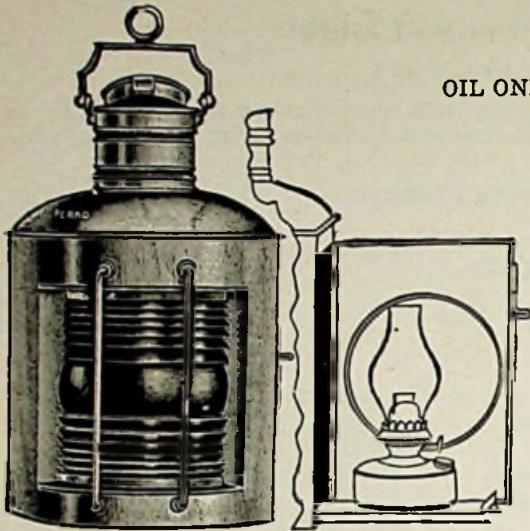


Fig. 27

	PRICE PER PAIR	
	Brass	Copper
Oil or electric only	\$72.00	\$80.00
Oil and one light electric	77.00	85.00
Oil and two light electric	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

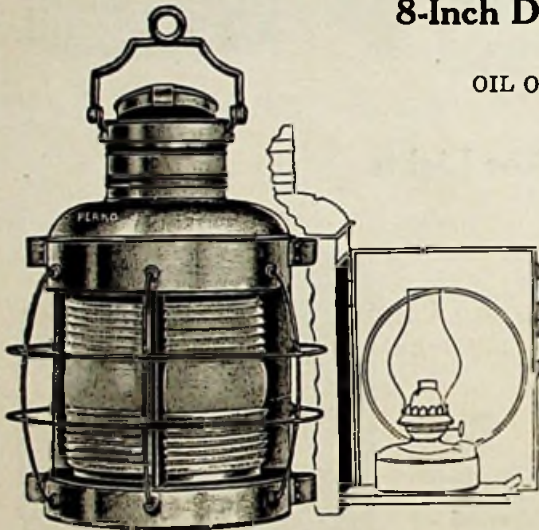


Fig. 28

PRICE EACH

	Brass	Copper
With clear lenses—Oil or Electric only	\$66.00	\$78.00
With colored lenses—Oil or Electric only	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 3/4 inches
Diameter of base, 9 1/2 inches
Size of lens, 7 inches x 8 inches
Net weight, each, 18 pounds

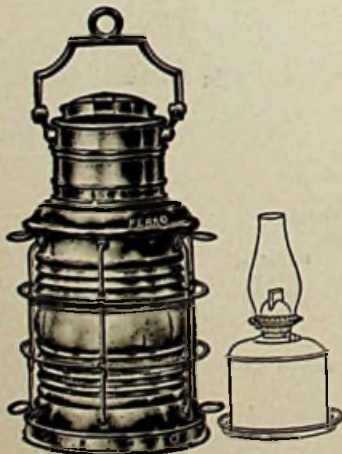


Fig. 29

PRICE EACH

	Galvanized	Brass	Copper
With clear lens—Oil or Electric only	\$22.00	\$32.00	\$36.00
With colored lens—Oil or Electric only	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.

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.	Description	Size of Lens		Extreme Height of Lens Inches	Height of Frame Inches	Width Inches	Net Weight Lbs.	Unit	Price	
		Height Inches	Clr. 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



Fig. 40



Fig. 41



Fig. 48



Fig. 42

Fig.	Description	Size of Lens		Extreme Height of Lens Inches	Height of Frame Inches	Width Inches	Net Weight Lbs.	Unit	Price	
		Height Inches	Clr. 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 3/4	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.

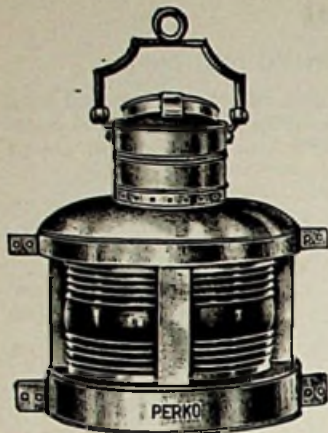


Fig. 62

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 Elec. Inches	Price Each		
						Galv.	Brass	Copper
6½ x 9	19	14½ x 10	17½	21	13	\$65.00	\$110.00	\$130.00
7½ x 11½	21¼	17¼ x 11½	20%	27	15½	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.

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 ¼ 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.



Fig. 61

Size Nos.	Height Overall Inches	Size of Lenses Inches	Diam. of Base Inches	Net Weight Lbs.	Price Each	
					Brass	Copper
1	38	8½ x 15	15	55	\$250.00	\$275.00
2	53½	8¾ x 20	15	80	275.00	300.00

(Price does not include gilding)

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, ¼ inch thick glasses. Rubber packing around glass held in place by screws and wing nuts.



Fig. 79

Height Overall Inches	Size of Glass Inches	Diam. of Base Inches	Net Weight Lbs.	Price Each Polished Copper
24	3¾ x 10	8	10½	\$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
13½	4¼ x 4¼	8¾	5½	2½	\$9.00	\$12.00

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

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.

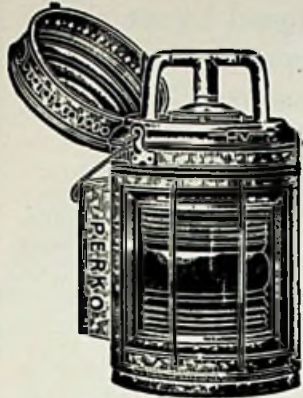


Fig. 346

Extreme Height Inches	Diam. Bottom Inches	Size of Lens		Inside Lantern Used	Net Weight Per Pair Lbs.	Price per Pair	
		Height Inches	Clr. Inches			Galv.	Brass
16	10	6 3/4	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.

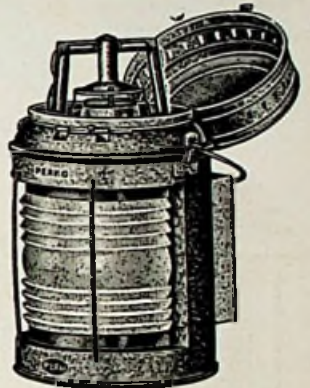


Fig. 574

Extreme Height Inches	Diam. Bottom Inches	Size of Lens		Inside Lantern Used	Net Weight Each Lbs.	Each	
		Height Inches	Clr. 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.

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.



Fig. 562

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.

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	Galvanized Each	Polished Brass Each	Polished Copper Each
	Fig. 407	Fig. 408					
1	15	11	7 x 7 3/4	6 3/4	\$27.00	\$37.00	\$45.00
2	17 1/2	13 1/4	9 1/4 x 10	7 3/8	30.00	40.00	48.00



Fig. 407
Oil Burning



Fig. 408
Electric Burning



Meal and Absent Light
CAST BRONZE

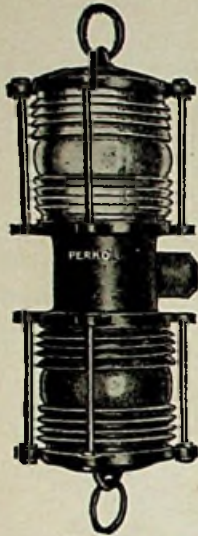


Fig. 402

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

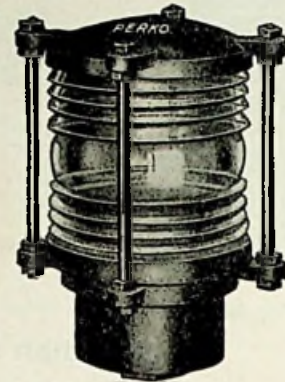


Fig. 403

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.

Code Signal Light

ELECTRIC ONLY
WITH MORSE KEY AND CONDENSER
CLEAR FRESNEL LENS
MEDIUM SCREW SOCKET



Fig. 57

Galv. Each	Pol. Brass Each	Pol. Copper Each	Extreme Height Inches	Diam. Bottom Inches	Size of Lens Inches
\$32.00	\$39.00	\$45.00	13 3/4	7 1/2	5 3/8 x 6

Extra keys (with condenser), each \$20.00.

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 3/8	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.

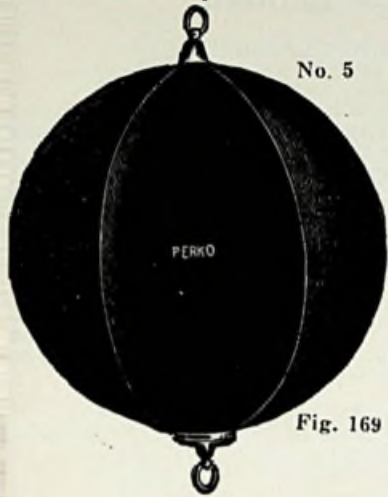
Galvanized body with cast bronze fittings, a clear 8 inch fresnel lens, brass fount and a special zenith burner with gear control for operating wick from outside of light.

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

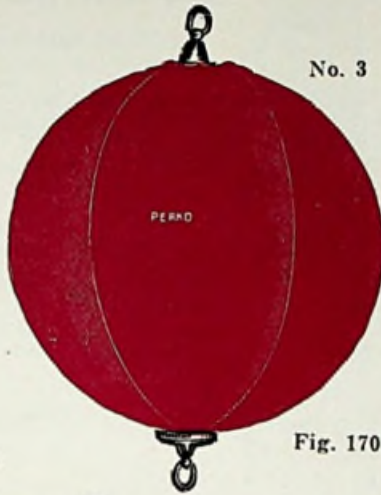
DAY SIGNALS

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.



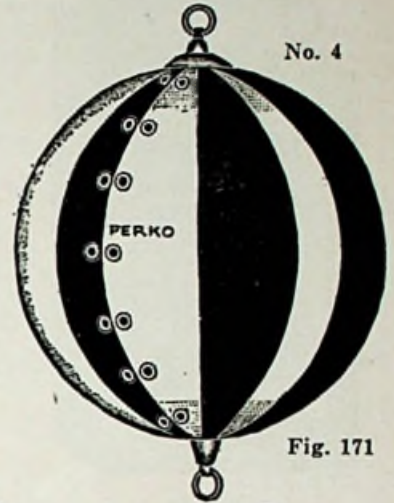
No. 5

Fig. 169



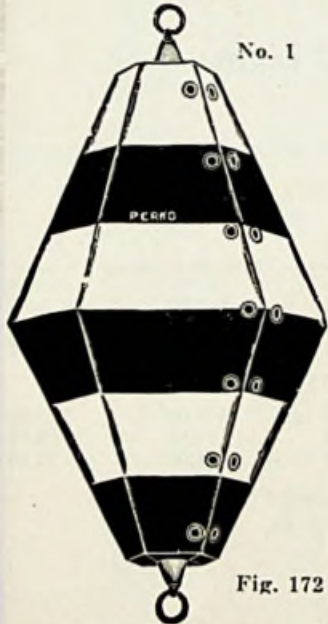
No. 3

Fig. 170



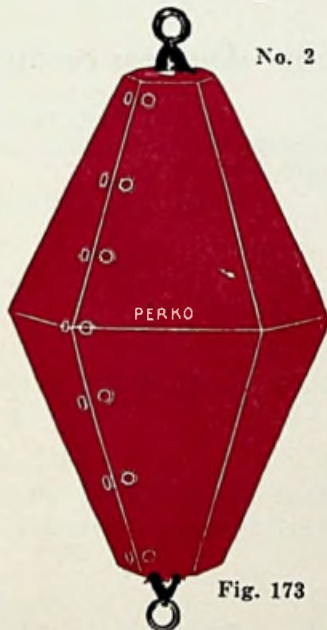
No. 4

Fig. 171



No. 1

Fig. 172



No. 2

Fig. 173



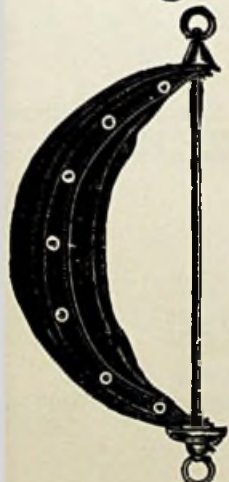
No. 6

Fig. 175

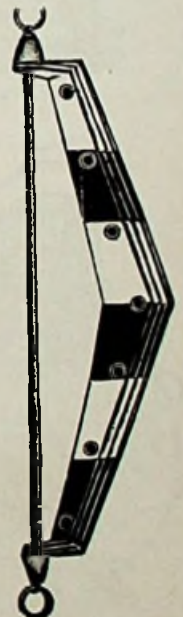


No. 7

Fig. 176



Ball Signal
(When Closed)



Frustrum
(When Closed)

Fig. No.	Diam. Inches	Height Inches	Weight Lbs.	Price Each
169 5	24	24	2½	\$ 6.00
170 3	24	24	2½	9.00
171 4	24	24	2½	10.50
172 1	24	48	5	25.00
173 2	24	48	5	25.00
175 6	7½	17	9	12.00
176 7	7½	17	9	15.00

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.



Fig. 46

Superior Bulkhead Lantern

WITH OUTSIDE SLIDING GLASSES

Made of heavy gauge metal, well constructed. Guards are riveted to frame and reinforced with solder. Glasses are easily removed by sliding same through top opening in frame, as illustrated. Large size brass oil fount, No. 2 hinge burner, Fig. No. 242, No. 2 lip chimney, Fig. No. 267, and large nickel plated brass reflector.

Size of Body		Height Overall Inches	Weight Each Lbs.	Price Each	
Front Inches	Side Inches			Galvanized	Brass
7 x 11	5 1/4 x 11	14	7	\$8.00	\$13.00
8 x 12	6 1/2 x 12	15 1/2	9	8.50	14.00
9 x 13	7 3/4 x 13	16	10	9.00	15.00

Can also be had with Electric Founts in place of Oil Founts. Price same as oil.

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.

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	14 1/2	6	6.00	9.00	11.00
10	10	22	12	13.00	18.00	20.00

WITH RUBY, GREEN, BLUE OR FROSTED GLOBES

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.

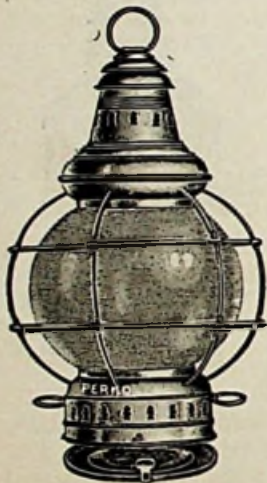


Fig. 44

Globe—Distress or Signal Light

AMERICAN IMPROVED TYPE
OIL OR ELECTRIC

Same general construction as Fig. No. 44 above, except this light contains large capacity oil fount, burner and chimney. American improved chimney top same construction as that on American improved running lights. This is the most dependable oil burning signal light on the market.

WITH CLEAR GLOBE

Trade Size Inches	Diam. Globe Inches	Height Overall Inches	Net Weight Each Lbs.	Price Each		
				Galvanized	Brass	Copper
8	8	14 1/2	6	\$10.00	\$13.00	\$15.00
10	10	22	10	17.00	22.00	24.00

WITH RUBY, GREEN, BLUE OR FROSTED GLOBES

8	\$11.00	\$15.50	\$17.50
10	19.00	25.00	27.00

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

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



Fig. 47

Detroit Cabin Lamp

DOUBLE SWING—WEIGHTED BASE
ALL BRASS—POLISHED



Fig. 138

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

One piece fount holds 1½ pints of oil, wall plate diameter is 5½ inches.

Equipped with hinge burner, wick, and lip chimney.

No.	Each	Height Inches	Extension Inches
1	\$5.00	12½	8
2	6.00	12½	9½

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 Inches	Diam. of Fount Inches	Net Weight Each Lbs.	Price Each Complete
9	5	1½	\$1.50

Arizona Cabin Lamp

DOUBLE SWING—WEIGHTED BASE

ALL BRASS—POLISHED

Philadelphia Cabin Lamp

DOUBLE SWING—WEIGHTED BASE

ALL BRASS—POLISHED

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

Fount capacity is 1½ pints, wall plate size is 4¾ x 2½ inches.

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



Fig. 137

No.	Each	Height Inches	Extension Inches
2	\$8.00	14	8½

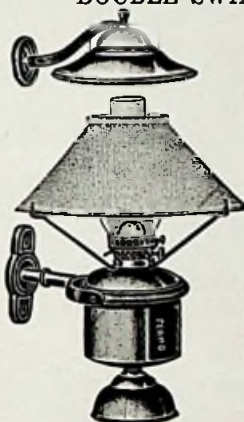


Fig. 126

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

Each Complete	Extension From Wall to End of Shade Inches
\$11.00	11

Maine Cabin Lamp

STIFF BRACKET—NON SWING

ALL BRASS—POLISHED

With cast bronze bracket riveted to body, removable fount.

Fount capacity is 1½ pints, wall plate size is 3 x 1¾.

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



Fig. 136

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

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	Extension From Wall to End of Shade Inches
\$9.00	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



Fig. 128

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

Shade Tripod

ALL BRASS

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

Price, each \$1.00



Fig. 129

For Opal Shades see Fig. 266.



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
Width of back, overall, 14 1/2 inches
Net weight, each, 13 pounds
Size of lens, 7 inches x 12 1/2 inches

	PRICE EACH—OIL OR ELECTRIC		Copper
	Galvanized	Brass	
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, 9 1/2 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, 11 1/4 inches
Net weight, each, 18 pounds
Size of lens, 7 inches x 8 inches
Size of glass panels overall 9 1/2 inches x 10 1/2 inches
Size of glass panels exposed 8 1/4 inches x 8 1/2 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.

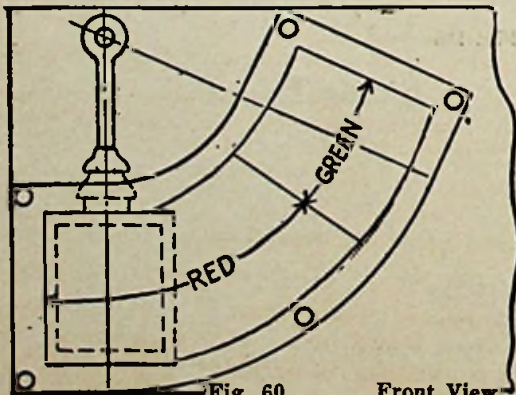


Fig. 60

Front View

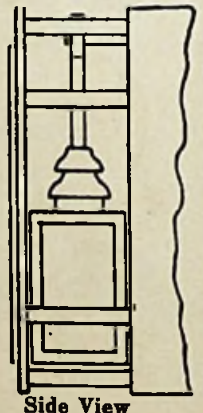
Lift Bridge Lights

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.

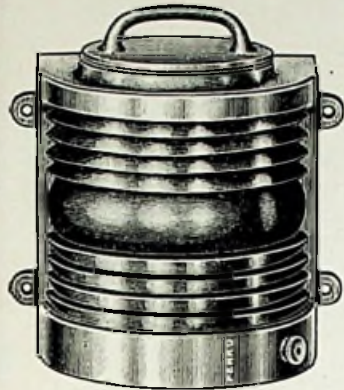


Fig. 1005

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

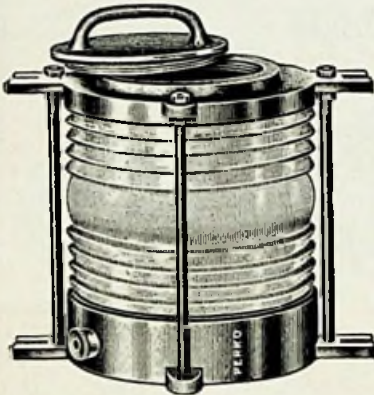


Fig. 1006

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— $\frac{3}{8}$ x 1 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

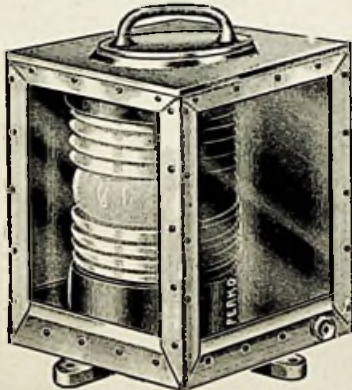


Fig. 1007

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 $\frac{1}{2}$ inches high x 3 $\frac{3}{8}$ inches opening.
 Weight—10 $\frac{1}{4}$ 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

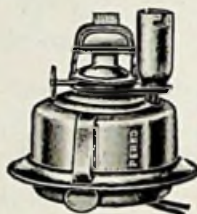


Fig. 736

Ediswan Fount Double Contact



Fig. 291

Edison Fount Medium Screw Base

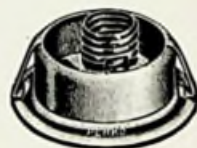


Fig. 292

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 3/8	1 1/2	\$ 8.00
Fig. 291—Ediswan founts	3 3/4	3 3/8	2	12.00
Fig. 292—Edison founts	3 3/4	3 3/8	2	12.00
Fig. 290—Candelabra founts	3 3/4	3 3/8	2	12.00
Fig. 736—Oil and Electric founts	3 3/4	3 3/8	4 1/2	18.00
Fig. 733—Oil and Electric founts	3 3/4	3 3/8	3 3/4	18.00
Fig. 733—For Oil only	3 3/4	3 3/8	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

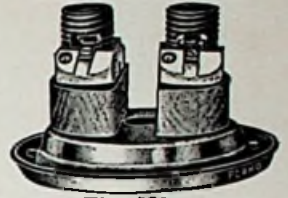


Fig. 289

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 1/4	1	\$1.00	\$1.50	\$1.50	\$2.00	.....	.....
2	10	15	22, 22 1/2 & 85	3 3/4	4 1/4	2	1.00	1.50	1.50	2.00	.....	.....
3	11	16	23 & 86	4 1/4	5 1/4	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 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 1/4	1	\$1.00	\$1.50	\$1.50	\$2.00	.....	.....
5	10	15	22, 22 1/2 & 85	3 3/4	4 1/4	2	1.00	1.50	1.50	2.00	.....	.....
6	11	16	23 & 86	4 1/4	5 1/4	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

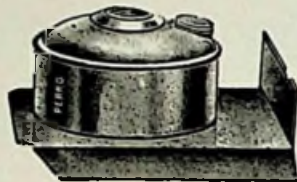


Fig. 284

One Light Electric Fount
Medium Screw Base

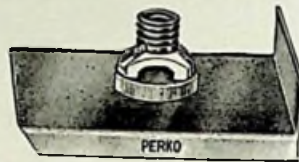


Fig. 281

Two Light Electric Fount
Medium Screw Base

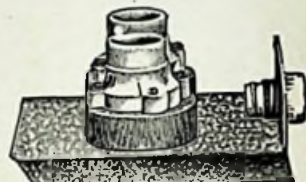


Fig. 285

- 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 PLATE 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 1/2 inches, width bracket, 2 1/2 inches.

Galvanized Cast Iron, Each \$1.00

Lantern Bracket CAST BRONZE

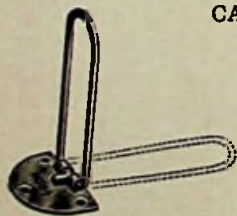


Fig. 514

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

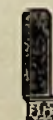


Fig. 131

No. 1—For classes 1, 2 and 3 lights.
No. 2—For intermediate size lights.

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



Mazda Lighting Bulbs



Fig. 337

Bulb No.	Diam. Inches	Length Overall Inches
G- 6	3/4	1 1/4
S- 8	1	2
S-10	1 1/4	2 1/4
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 1/4
A-21	2 3/8	4 1/4

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 1/4	\$1.00
S-11	1 3/8	2 3/8	1.10

Volts	No.	C. P. or Watts	Base	Price Each Clear
6- 8	S-10	15	Medium	1.10
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



Fig. 15

SPECIAL BULBS
Not Mazda

Bulb No.	Diam. Inches	Length Overall Inches	Price Each Frosted
G-16 1/2	2 1/4	3 1/4	\$.65

Volts	Candle Power	Base	Price Each Frosted
6- 8	15 or 25	Medium	\$.65
12-16	15 or 25	Medium	.65
32	15 or 25	Medium	.75

Can also be furnished with double contact base at same prices.

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 1/4	\$.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 1/4	3	3.00
6-8		100	G-16 1/2	Medium	2 1/4	3 1/4	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 1/4	.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 1/4	3	3.00
12-16		100	G-16 1/2	Medium	2 1/4	3 1/4	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 1/4	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 1/4	3	3.00
32	3.5 amp.	100	G-16 1/2	Medium	2 1/4	3 1/4	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 1/4	4.00
120	400		G-30	Medium	3 3/4	5 1/4	6.00
120	500		G-40	Medium	5	7 1/4	9.00



Marcy Hinge Burner
ALL BRASS—HEAVY PATTERN



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	5/8	\$5.00
2	1/4	3/8	6.00

Fig. 242

Dual Burners

ALL BRASS—DOUBLE WICK



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

Fig. 241

Eagle Burner

ALL BRASS—HEAVY PATTERN



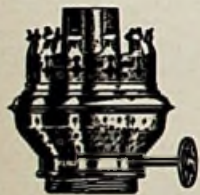
Standard equipment on wall lamp, Fig. No. 312.

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

Fig. 248

Cosmos or Ligne Burner

ALL BRASS—HEAVY PATTERN



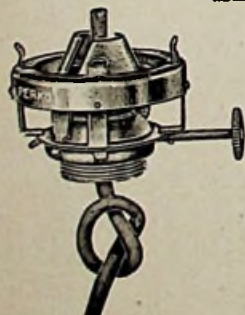
Standard equipment on Norwegian running lights on page 29.

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

Fig. 240

Long Time Burner

HEAVY BRASS



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

Burners only	Per Doz. \$9.00
Wicks only	1.50

Fig. 245

Marcy Lip or Dual Chimney



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

Fig. 267

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

Eagle Chimney

PLAIN TOP



Standard equipment on wall lamp, Fig. 312.

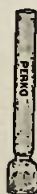
Sizes	2 or B
Diameter of bottom	2 1/4"
Diameter of top	1 3/4"
Height overall	7 1/2"
Net weight, per doz., lbs.	2

Fig. 268

Per Dozen	\$4.50
-----------	--------

Cosmos or Ligne Chimneys

Standard equipment on Norwegian running lights shown on page 29.



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

Fig. 270

Long Time Chimney



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

Diam. Bottom Inches	Height Inches
1 1/2	1 1/4

Per Dozen	\$6.00
-----------	--------

Fig. 272



Fresnel Lenses

FOR SIDE AND COMBINATION LIGHTS



Fig. 259

For	Height Overall In.	Out- side Diam. of Back In.	Cir. of Bull's Eye In.	Clear Each	Ruby or Green Each
Outboard Comb Lights	2½	2½	3	.....	\$ .90
Class 1 Comb Lights	3¾	3¼	3¾	\$1.20	1.00
Class 2 Side Lights	4¼	3¾	4¾	2.00	1.80
Class 3 Side Lights	5¼	4¾	5¾	3.00	2.70
No. 8 Side Lights	5¾	4¾	6¼	.....	2.70
No. 9 Side Lights	5¾	6¾	8½	.....	3.70
No. 10 Side Lights	6¾	7	8¾	.....	4.20
No. 11 Side Lights	7¾	9¾	11½	.....	8.00
8 inch Face Side Light	8¾	7¾	9¾	.....	8.00
English or Norwegian Side Lights	7	10½	12¼	\$8.00	.....

FOR BOW LIGHTS—180 DEGREES



Fig. 260

For	Height Overall Inches	Outside Diam. of Back Inches	Cir. of Bull's Eye Inches	Clear Each	Col. Each
Class 2 Bow Lights	4¼	4¼	6½	\$ 2.00	\$3.00
Class 3 Bow Lights	5¼	4¾	7¾	3.00	4.00
No. 14 Bow Lights	5½	5¾	9½	4.00	5.00
No. 15 Bow Lights	6¾	6	9½	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	\$ 1.50	\$ 2.40
No. 21 Anchor Lights	4¼	4	1.80	3.60
No. 22 Anchor Lights	5¾	5¾	3.00	5.50
No. 22½ Anchor Lights	6¾	5¼	4.00	7.00
No. 23 Anchor Lights	7	7¾	5.50	10.50
English or Norwegian Anchor Lights	7½	9¾	12.00	.....

Fresnel Ball Globe

1¾ 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	1¾ in.
Diameter of opening	¾ in.
Net weight, each	1 oz.

Clear Each	Ruby Each	Green Each	Blue Each
\$.90	\$1.40	\$1.40	\$1.40

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	1¾ in.
Diameter of thread	2 in.
Net weight, each	6 ozs.

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

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 oz.

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

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	2 in.
Net weight, each	10 ozs.

Clear Each	Ruby Each	Green Each	Blue Each
\$1.10	\$1.70	\$1.70	\$1.70

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
\$1.20	\$1.90	\$1.90	\$1.90

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

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.	4½ in.
Length spout	4 in.	6 in.
Wt. per gross	40 lbs.	48 lbs.

PRICE PER GROSS

No.	3	\$56.00
4		70.00

EXTRA SPOUTS

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

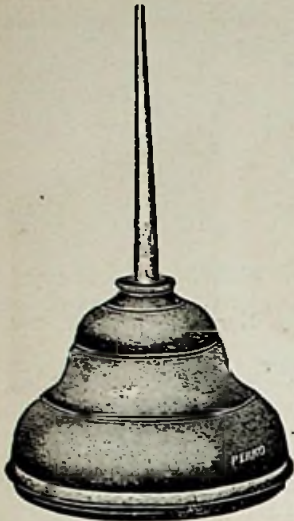


Fig. 326

Gasoline Funnels

GALVANIZED—FOR OUTBOARD MOTORS AND RUNABOUTS



Fig. 589

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

Diam. Top	Height	Capacity	Price
Inches	Inches	Gallons	Per Dozen
8	9	½	\$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	Diam. Spout	Height	Capacity	Price
Inches	Inches	Inches	Gallons	Per Doz.
8	¾	13	½	\$12.00
10	¾	13½	1	15.00

"Perko" All Brass Marine Oilers

INTERCHANGEABLE SPOUTS

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

No.	Capacity	Diam.	Length	Weight
	Oz.	Inches	Spouts	Per
33	8	4	4	Gross
44	12	4½	6	Lbs.
				70
				78

PRICE PER GROSS

No.	33	\$65.00
44		80.00

EXTRA SPOUTS

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



Fig. 127

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	Length Overall	Diam. Spout	Length Spout
Inches	Inches	Inches	Inches
5½	16	1	7

PRICE PER DOZEN

Galvanized	\$12.00
------------	---------

Cone Oilers

Made of heavy tin plate, double seamed bottom, all well soldered, filler cap with rolled thread.

Capacity	Diam.	Height	Weight
Quarts	Inches	Inches	Dozen
1	6¼	4½	6
2	8	6	9

PRICE PER DOZEN

1 Quart	\$18.00
2 Quart	24.00



Fig. 210

Oiler Trays

Spun from one piece of brass, or copper, edge beaded around heavy wire for reinforcing.

Diam. Inches	Depth Inches	Price Each	
		Brass	Copper
6	¾	\$1.40	\$1.65
8	¾	1.50	1.75
10	¾	2.00	2.25
12	¾	2.50	2.75



Fig. 143

Pitch Payers

GALVANIZED



Fig. 178

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

Diam. Inches	Length Body Inches	Length Overall Inches	Weight Lbs.	Price Each
7	13	20	1½	\$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

Gasoline or Water Tanks

We manufacture tanks of copper, brass, monel metal or galvanized iron in special sizes, shapes, construction, etc. Riveted or seamed and soldered.

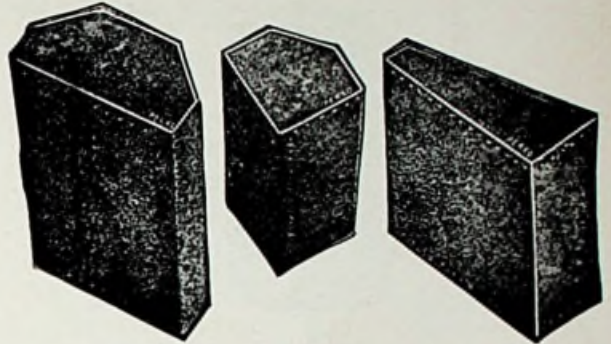


Fig. 381

Bunker Lamps



Fig. 212

Made of galvanized iron, screw type filler cap, fastened to lamp by chain. One pint capacity fount, complete, as illustrated.

Price per dozen \$6.00



Fig. 382

Send blue prints or drawing with full details. Prices quoted on application.

Side Light Screens

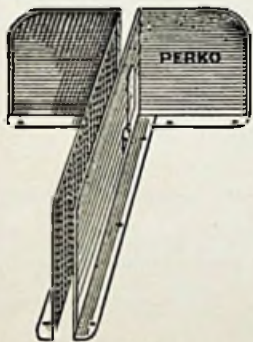


Fig. 316

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

Rat Guards

Made of heavy gauge galvanized iron, in two halves, held in place with machine screws and nuts. Riveted uprights and beaded edge.



Fig. 271

Diameter	18"	24"	30"	36"
Price per dozen	\$18.00	\$21.00	\$24.00	\$27.00



Opened



Closed

Fig. 256

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

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
Cans Only— 4 inches high—Price Each	4.00
Cans Only— 6 inches high—Price Each	4.50
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

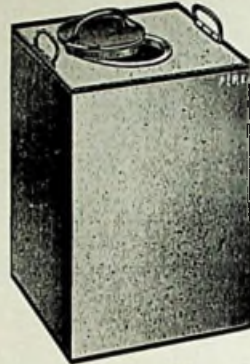


Fig. 155

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

Sea Anchor Cans GALVANIZED



Fig. 179

Used as oil spreader on sea anchor.

Made of heavy galvanized sheet iron, double seamed and soldered. Complete with ring for attaching to sea anchor. Two brass pet cocks and filling cap.

Diam. Inches	Height Inches	Weight Lbs.	Price Each
8¼	16¾	1½	\$1.80

For Canvas Sea Anchors see Page 49.

Boat Bailers GALVANIZED



Fig. 180

Made of black steel, hot galvanized after completed, handle riveted to body.

Diameter, 8¼ inches. Weight, per doz., 12 lbs.

Price each \$.90

RESERVED FOR NEW ITEMS

Folding Wash Basin

PORTABLE
WITH ENAMELLED BASIN

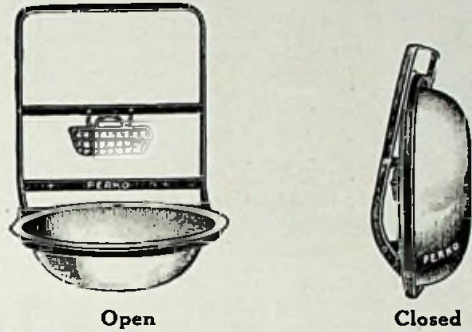


Fig. 459

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	11 3/4	12	11	12	4 1/2

Canvas Sea Anchors

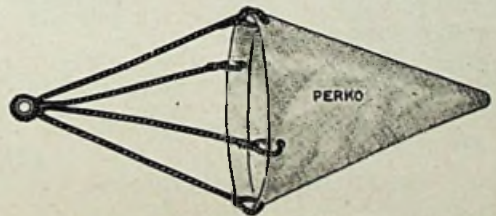


Fig. 517

Approved by the steamboat inspection service for life boats, equipped with sea anchor can Fig. 179 inserted in the tip of the anchor.

Complete With Can Each	Sea Anchor Only Each	Dimensions Inches
\$5.00	\$3.00	24x36

Watertight Receptacles and Plugs CAST BRONZE—POLISHED

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.

Complete Each	Plug Only Each	Diam. Plate Inches	Depth Inches
\$3.50	\$1.50	2 1/4	3/4

FLUSH TYPE WITH BOX

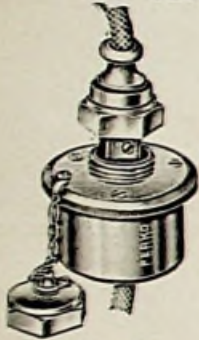


Fig. 969

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	Plug Only Each
\$4.25	\$1.50

HEAVY DUTY FLUSH TYPE

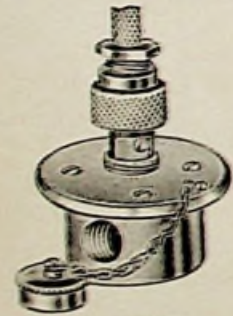


Fig. 970

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	2 Wire Plug Each	3 Wire Plug Each	3 Wire Ligature Extra
\$5.50	\$1.50	\$2.25	\$ 1.50

HEAVY DUTY SURFACE TYPE

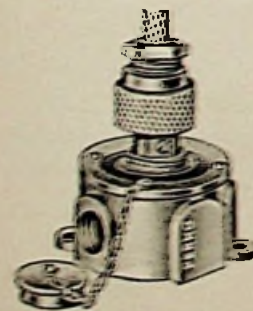


Fig. 971

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	2 Wire Plug Each	3 Wire Plug Each	3 Wire Ligature Extra
\$5.00	\$1.50	\$2.25	\$ 1.50

Gang Type Receptacle and Plug SURFACE TYPE



Fig. 972

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

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

Complete with Plugs, Each \$7.50

Combination Switch and Receptacle SURFACE TYPE

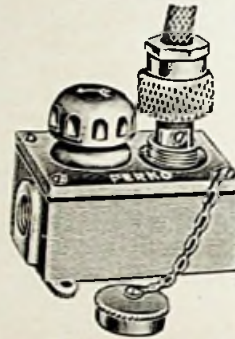


Fig. 973

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

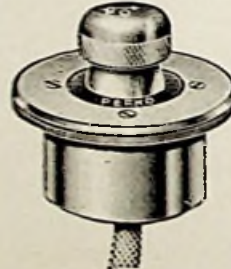


Fig. 974

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	

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



Fig. 423

All Metal Plug



Fig. 425

	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
Socket Only	\$1.00	\$1.50	\$2.50
Plug Only	1.00	1.50	2.50

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 Each	Diameter Flange Inches	Length Overall Closed Inches
\$1.25	1 1/4	2 7/16

Composition Connector

DOUBLE CONTACT



Fig. 749

Price Each\$0.50

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 Brass Each	Nickel Plated Each	Chromium Plated Each
\$1.80	\$2.25	\$3.00

Composition Interiors Only
Per Set, \$.70

Brass Case Connector

DOUBLE CONTACT

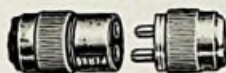


Fig. 750

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

Metal clad throughout.
Price, each\$0.70

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\$1.10

Bakelite Base Socket

SINGLE OR DOUBLE CONTACT



Fig. 472

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

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

Plugs and Sockets

DOUBLE CONTACT



Fig. 399

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

Size of flange, 1 1/8 x 1 1/2.
Price Complete\$.60

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 1/8" x 1 1/2"

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

Electric Adapters



Fig. 405

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

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

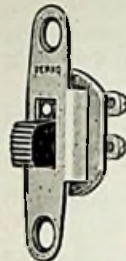


Fig. 717

THE DE-LUXE

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

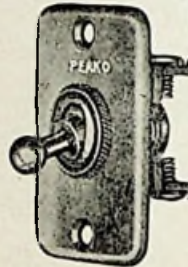


Fig. 718

Length Face Plate Inches	Width Face Plate Inches
1 7/8	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 1/2" hole in dash for mounting.

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

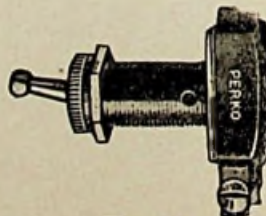


Fig. 745

Price Each\$.50

Lighting Switches

PUSH AND PULL TYPE

With polished brass or nickel plated plate and hard rubber push and pull button. 1 point furnished with round or oval plate, 2 - 3 or 4 point furnished with oblong plate.



Fig. 739

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

Please specify finish of plate when ordering.

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 1/8 x 1 1/4
2	3 3/8 x 1 1/8

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

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 1/8 x 1 1/8
4	2 1/4 x 1 1/8

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

Brass Cable Straps

For fastening electric cable along hull of boat. A neat and secure fastening, of heavy gauge brass.



Fig. 121

For Wire Diameter Inches	Per 100	For Wire Diameter Inches	Per 100
1/8	\$1.10	3/8	\$2.50
3/16	1.10	1/4	2.75
1/4	1.20	5/8	5.50
5/16	1.20	1	7.80
3/8	1.40	1 1/8	10.00
7/16	1.40	1 1/4	11.00
1/2	1.60		

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.

Duplex Electric Cable

DOUBLE RUBBER COVERED

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

Stranded cable is protected by double rubber insulation, size is 3/8 x 1/2 inches.

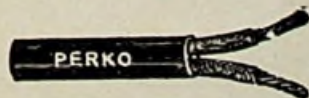


Fig. 497

	Per Coil
50 foot coils	\$ 3.00
100 foot coils	5.50
1000 foot coils	45.00



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**

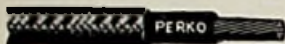


16 Gauge
5/32" Outside Diameter

Fig. 751

Price, per 100 Feet\$3.00

BRAIDED MAGNETO OR HIGH TENSION WIRE



16 Gauge
9/32" Outside Diameter

Fig. 752

Price, per 100 Feet\$5.00

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



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

Fig. 753

Price, per 100 Feet\$7.00

**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.....\$6.00

ARMORED LIGHTING CABLE



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

Fig. 756

Single Conductor—Price Per 100 Ft.....\$5.00

Double Conductor—Price Per 100 Ft..... 8.00

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



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

Fig. 757

Price, Per 100 Ft.\$8.00

OUTSIDE LIGHTING CABLE TWIN CONDUCTOR—WATERPROOF



18 Gauge
25/64" Outside Diameter

Fig. 758

Price, Per 100 Ft.....\$11.00

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 7/8	1 1/2 x 1 1/2	1 1/2

Price Each

\$.90

Fig. 184

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.



Length overall, 10"

Price each \$3.00

Fig. 389

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 and aft. White light aft.	Whistle	Life preservers. Licensed operator.	Approved fire extinguishers.	Combination light forward and aft. White light aft.	Whistle	Life preservers or life-saving devices prescribed by Act.	Approved fire extinguishers.
Class 2	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 3	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
2½	2½	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
2¾x2¾	2½	2¾	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	2¾	12
	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
	\$2.50	\$2.75	\$3.50
With Switch			
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	4½x2½	2¾

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	2½	2¾	¾
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
\$2.50	\$2.75	\$3.50	

Yacht Pattern

WITH PULL CHAIN—CAST BRONZE



Fig. 455

Size Base Inches	Drop less Lamp Inches	Projection less Lamp Inches	Weight Pounds
2¾x2¾	5¼	3¾	2½
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
\$6.00	\$6.75	\$9.00	

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 Bronze Each	Nickel Plated Each	Chromium Plated Each	Size Base Inches	Drop less lamp Inches	Projection less lamp 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 Bronze Each	Nickel Plated Each	Chromium Plated Each	Size Base Inches	Drop less lamp Inches	Projection less lamp Inches
\$2.50	\$2.75	\$3.50	2 x 2 7/8	3 1/8	2

Double Cabin Fixture

CAST BRONZE—STANDARD SCREW SOCKETS

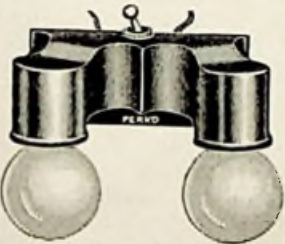


Fig. 452

Size base, 2 x 4 1/2 inches
Width (less lamps), 5 3/4 in.
Drop (less lamps), 2 inches
Extends from wall 2 3/4 in.
Weight, 1 1/2 pounds

	Polished Bronze Each	Nickel Plated Each	Chromium Plated 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 3/4 in.
from wall }
Weight, 1 pound

	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
With Toggle Switch	\$5.00	\$5.50	\$6.50

LIGHTS

D—DOUBLE CONTACT SOCKETS

able. Reflectors are heavily nickel plated, furnished with installation.

plane Globes

WITH TOGGLE SWITCH

Diam. Base Inches	Depth Overall Inches
4 1/8	1 3/8
5 3/8	1 7/8
6 7/8	2 1/4
8	2 3/4



Fig. 294

Trade Size Inches	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
3	\$2.60	\$2.85	\$4.10
4	3.10	3.35	4.60
5	3.60	3.85	5.10
6	4.60	4.85	6.10



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 Bronze Each	Nickel Plated Each	Chromium Plated Each	Size Base Inches	Extends from Wall 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 Bronze Each	Nickel Plated Each	Chromium Plated Each	Length Inches	Width 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.



ELECTRIC CABIN
WITH STANDARD SOCKET
FOR 6-12-32 OI

Round Base Pattern
WITH PUSH BUTTON SWITCH—SPUN BRASS



Fig. 308

Diam. Base Inches	Drop less Lamp Inches	Projection less Lamp Inches	Weight Ounces
2½	2½	3	6
Polished Brass Each		Nickel Plated Each	Chromium Plated Each
\$1.75		\$2.00	\$2.75

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.

Base, 1¾ x 1¾ inches
Drop, 3½ inches
Extends from wall 4¾ inches
Weight, 9 ounces



Fig. 553

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	2½
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	

ALL OF THE ABOVE DOME LIGHTS CAN BE FURNISHED WITHOUT SWITCH. DEDUCT \$1. FROM ABOVE PRICES.



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



Trade Size Inches	Diam. Glass Inches	Diam. Base Inches	Depth Overall Inches
3	2 3/4	4 1/2	1 7/8
4	3 3/4	5 3/4	1 7/8
5	4 3/4	6 3/4	2 3/4
6	5 3/4	8	2 3/4

Fig. 387

WITH TOGGLE SWITCH



Fig. 294

Trade Size Inches	Polished Brass Each	Nickel Plated Each	Chromium Plated Each	Trade Size Inches	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

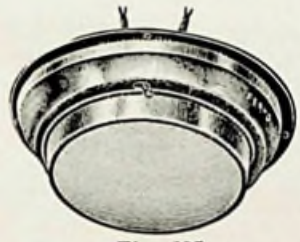


Fig. 295

Trade Size Inches	Diam. Glass Inches	Diam. Base Inches	Depth Overall Inches
3	2 3/4	4 1/2	1 3/4
4	3 3/4	5 3/4	1 3/4
5	4 3/4	6 3/4	1 3/4
6	5 3/4	8	2 1/4

WITH TOGGLE SWITCH



Fig. 296

Trade Size Inches	Polished Brass Each	Nickel Plated Each	Chromium Plated Each	Trade Size Inches	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

No.	Diam. Base Inches	Diam. Globe Inches	Depth Inches	Weight Lbs.
7	6	4 1/4	2 1/4	7/8
8	7	5 1/2	2 3/4	1 1/2
9	7	5 1/2	2 3/4	1 3/4



Fig. 385

With Double Contact Socket

No.	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
7	\$3.25	\$3.50	\$4.75
8	4.25	4.50	5.75

With Standard Screw Socket

No.	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
9	\$4.50	\$4.75	\$6.00

Nos. 7 and 8 can be furnished with throw switch, as Fig. 387. Deduct \$.25 each from prices.

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 volt—8 amps; 120 volts, 250 watt. Can also furnish 120 volts, 400 or 500 watt bulbs for small additional cost.

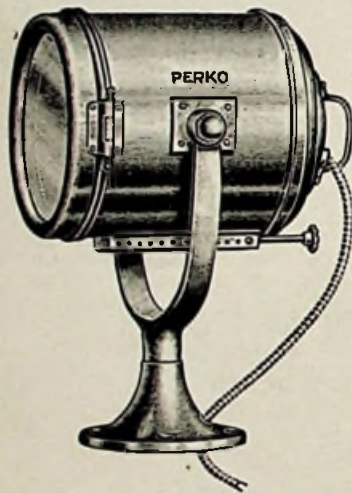


Fig. 480

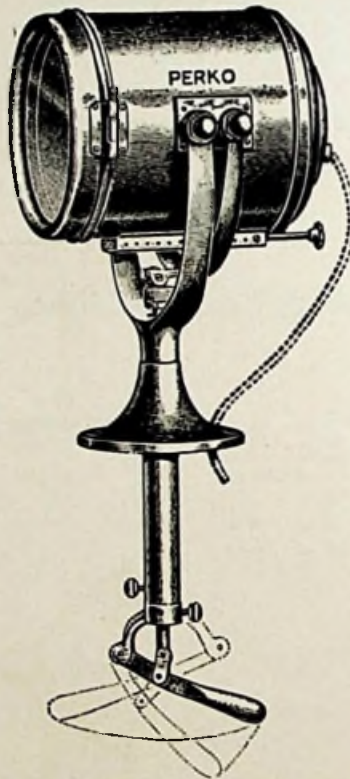


Fig. 297

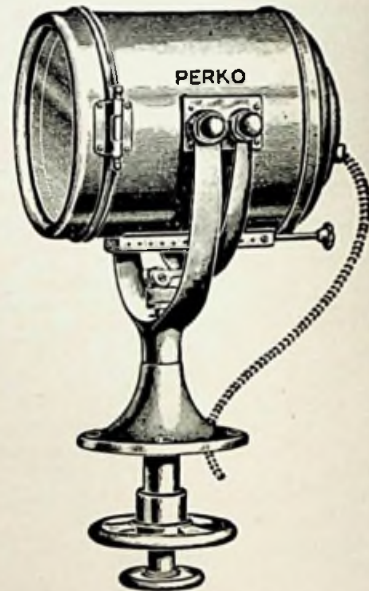


Fig. 529

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	\$ 85.00	\$4.00 net	\$12.00 net	\$100.00	\$4.00 net	\$12.00 net	\$105.00	\$4.00 net	\$12.00 net
10	100.00	4.50 net	14.00 net	120.00	4.50 net	14.00 net	125.00	4.50 net	14.00 net
12	120.00	5.00 net	15.00 net	140.00	5.00 net	15.00 net	145.00	5.00 net	15.00 net
14	150.00	6.00 net	20.00 net	180.00	6.00 net	20.00 net	185.00	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

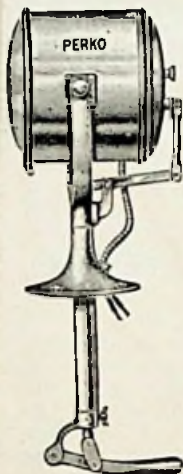


Fig. 306

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	\$26.00	\$30.00	\$34.00
6	32.00	36.00	40.00
8	42.00	47.00	52.00
10	75.00	81.00	87.00

* Indicates this searchlight with T handle control instead of lever control illustrated.

Sunbeam DECK TYPE

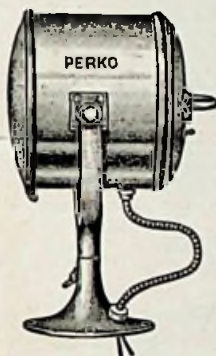


Fig. 305

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	\$24.00	\$28.00	\$31.00
8	30.00	34.00	39.00
10	40.00	45.00	50.00

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	\$18.00	\$22.00	\$25.00

Brightbeam

WITH PILOT HOUSE CONTROL

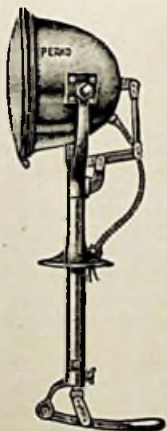


Fig. 310

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	\$32.00	\$37.00	\$42.00

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
\$9.75	\$11.00	\$14.00

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

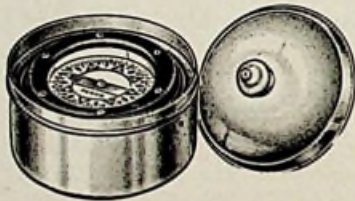


Fig. 356

Diam. of Dial Inches	Each	Diameter of Box Inches	Weight Complete Pounds
2	\$ 6.00	4	1 1/2
2 1/2	8.50	4 5/8	2
3	10.50	5 3/8	3
4	16.50	6 1/2	4
5	21.50	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 3/8	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 cruise 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.

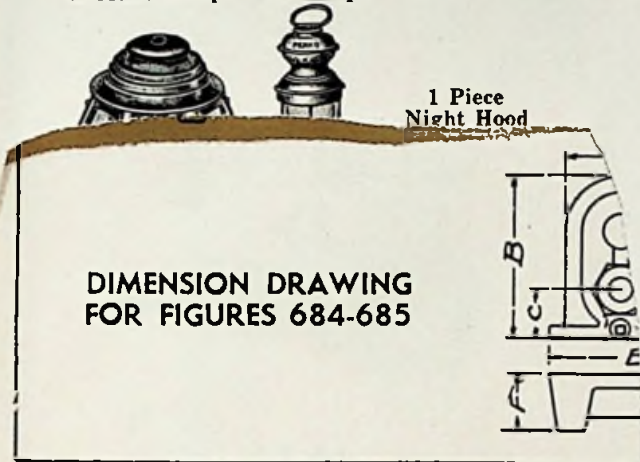
Diameter Card Inches	Each	Height Inches	Diameter Base Inches
4	\$ 80.00	6 1/2	6 1/2
5	90.00	7 1/2	7 1/2
6	100.00	8 1/2	8 1/2

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



1 Piece Night Hood

DIMENSION DRAWING FOR FIGURES 684-685

DIMENSION TABLE FOR

each \$37.00	A	B	C	D	E	F
	2 1/2	1 1/2	3/4			

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	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
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.

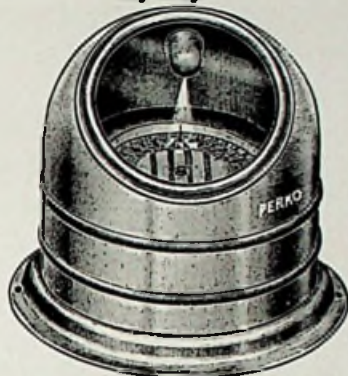


Fig. 412

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 3/4	1 1/2
5	8 3/4	10	7 3/4	2 3/4
		Polished Brass Each	Nickel Plated Each	Chromium Plated Each
For 3 inch Compass		\$12.50	\$14.00	\$16.50
For 4 inch Compass		14.00	16.00	19.00
For 5 inch Compass		15.50	18.00	21.50

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 3/4	1 1/2
5	8 3/4	10	7 3/4	2 3/4
		Polished Brass Each	Nickel Plated Each	Chromium Plated Each
For 3 inch Compass		\$14.50	\$16.00	\$18.50
For 4 inch Compass		16.00	18.00	21.00
For 5 inch Compass		17.50	20.00	23.50

PRICES ON THIS PAGE DO NOT INCLUDE COMPASS. FOR INFORMATION ON COMPASS REFER TO FIG. 487 AND FIG. 987.

"Star" Liquid Auto Compass

VERTICAL MAGNIFIED DIAL
NON-GLARE ELECTRIC ILLUMINATION



Fig. 990

Not a toy or a novelty but a real 2½ inch face liquid compass, a practical and accurate instrument adapted to the use of automobile and small boat navigation.

Made by the originators of the spherical lens and vertical dial compasses for aircraft use.

An indispensable instrument when traveling through unfamiliar country or unknown highways. Will pay for itself many times by saving many miles of travel, many gallons of fuel, besides the wear and tear of rough, unfamiliar roads.

Furnished complete with spherical magnifying lens and indirect non glare electric illumination. Height overall 3½ inches.

With Rubber Suction Cup, Each \$5.50

With Brass Mounting Plate, Each 6.00

Square Binnacle Head

TO FIT STANDARD COMPASS BOXES

Clear glass on all four sides—double contact electric socket in top for night running, furnished with or without compass and box.

Prices do not include compass or box.



Fig. 549

Size Compass Inches	Size Box Outside Inches	Height Overall Less Box Inches	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
2	4 1/8 x 4 1/8	5 7/8	\$5.50	\$7.50	\$9.00
2½	5 1/8 x 5 1/8	6 1/2	6.00	8.00	9.50
3	6 1/4 x 6 1/4	6 7/8	6.25	8.25	10.25
4	7 1/4 x 7 1/4	8 1/8	7.25	9.25	11.25
5	8 1/2 x 8 1/2	9	8.00	10.00	12.50

For information on compass and box—refer to Fig. 487.

Binnacle Lamp

WROUGHT BRASS



Fig. 413

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

Height Inches	Diam. Inches	Size Glass Inches	Price Each
5 ½	2 ¾	1 ½ x 2 ¼	\$2.50
6 ½	3	2 ¼ x 2 ¾	2.50

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

Round

A combination lamp and binnacle

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

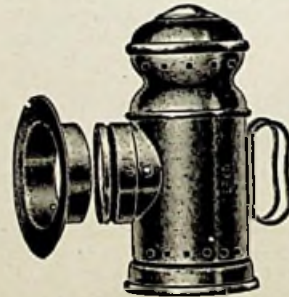


Fig. 148

No.	Height Overall Inches	Diam. Body Inches	Diam. Glass Inches	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
4	4 ¾	2	1 ¾	\$4.50	\$6.50	\$8.50
5	7	2 ¾	2 ½	5.50	7.50	9.50

Chart Cases

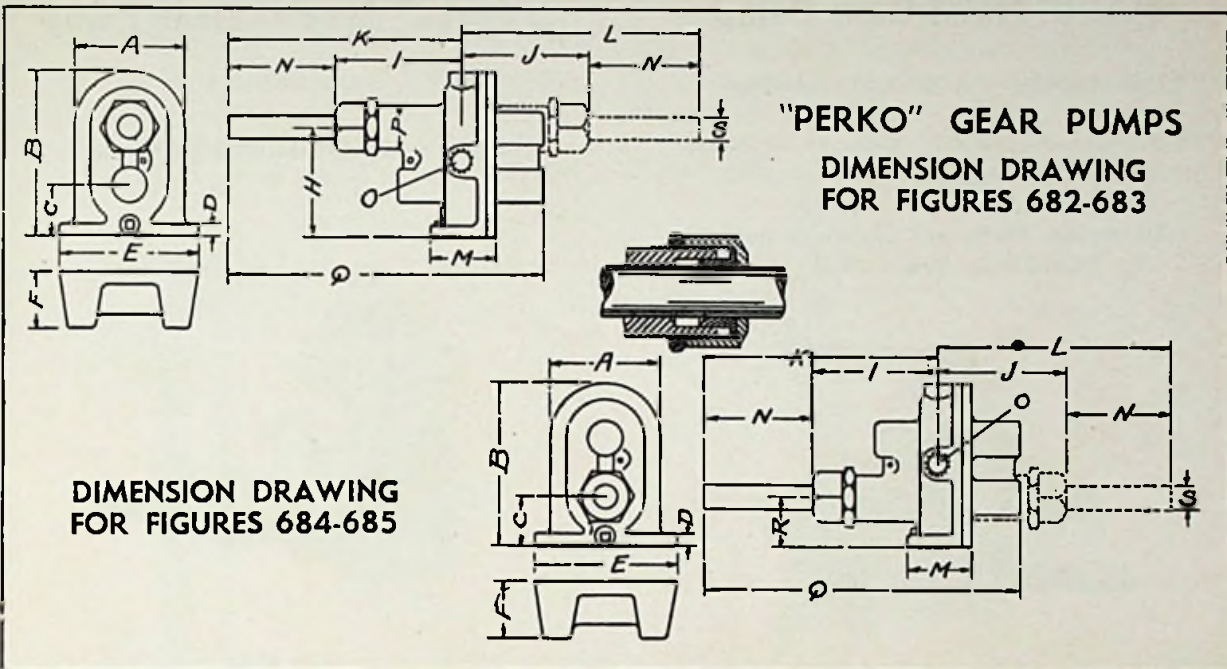


Fig. 372

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

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

All other sizes made to order.



"PERKO" GEAR PUMPS
DIMENSION DRAWING
FOR FIGURES 682-683

DIMENSION DRAWING
FOR FIGURES 684-685

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	1¼	¾	2¼	1½	1¾	2½	2¾	4¾	4¾	1¾	2½	¾	¾	6½	¾	¾
2	2¾	3½	1¼	¾	2½	1¾	2¾	2¾	2¾	4¾	4¾	1¾	2½	¼	1	6½	1½	½
3	2¾	4	1¾	¾	3½	1¾	2¾	2¾	2¾	5¾	5¾	1¼	2½	¾	1½	6½	1½	¾
4	2¾	4	1¾	¾	3½	1¾	2¾	3¾	3¾	5¾	5¾	1¾	2½	¾	1½	7½	1½	¾
7	3¼	5¾	2¾	¾	4	1½	3¾	3¾	3¾	5¾	5¾	1¾	2½	¾	1½	7½	1½	¾
9	3¼	5¾	2¾	¾	4	1½	3¾	3¾	3¾	5¾	5¾	1¾	2½	1	1½	7½	1½	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

Pump No.	P R E S S U R E									
	0 lb.		20 lb.		40 lb.		60 lb.		80 lb.	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
½	1.57	¼	1.43	¼	1.35	¼	1.3	¼	1.2	¼
1	3.	¼	2.62	¼	2.25	¼	1.8	¼	1.45	¼
2	5.	¼	4.25	¼	3.7	¼	3.2	½	2.8	¾
3	7.5	¼	6.3	¼	5.4	½	4.6	¾	3.8	1
4	13.5	½	11.5	½	9.9	¾	8.75	1	7.7	1½
5	17.	½	15.5	¾	14.1	1¼	12.7	1¼	11.2	1½

Pump No.	P R E S S U R E									
	0 lb.		20 lb.		40 lb.		60 lb.		80 lb.	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
1½	2.3	¼	2.2	¼	2.15	¼	2.1	¼	2.	¼
2	4.5	¼	4.2	¼	3.85	¼	3.45	½	3.1	¾
3	7.5	¼	6.75	½	6.1	¾	5.6	1	5.25	1
4	11.	½	10.	¾	9.	¾	8.2	1	7.3	1½
7	16.*	*½	15.*	1*	13.3*	*1	12.*	1½*	10.8*	*1½
9	20.*	*¾	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.

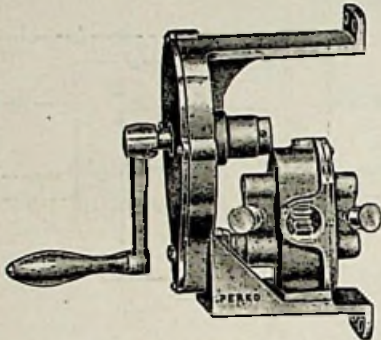


Fig. 686

"Perko" Special Gear Pump

ALL BRONZE

FOR STAR MARINE MOTOR CONVERSIONS

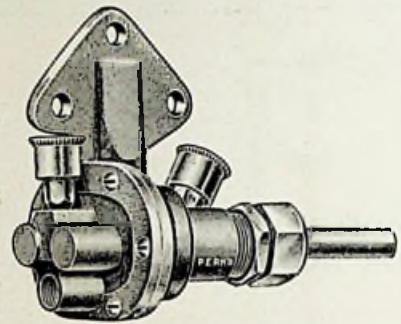


Fig. 804

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.

This pump is designed primarily for Star and Gray 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



"Perko" New Navy Bilge Pump

BRASS CYLINDER—CAST BRONZE BRACKETS

NON CORROSIVE BRONZE UPPER AND LOWER CASTINGS

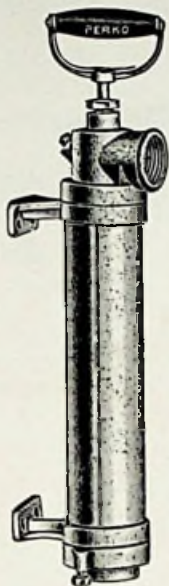


Fig. 720



The construction of this pump is far ahead of all others of similar design on the market, and it will empty a bilge at an amazing rate.

The plunger is made entirely of machined brass, heavy square flax packing set in a groove is used instead of leather washers which have never been satisfactory for salt water use. Plunger rod is 1/2 inch diameter brass, construction of plunger is illustrated above.

Furnished complete with brackets adjustable for star-board or port bulkhead mounting.

CAPACITY—18 GALLONS PER MINUTE
Tested at Ordinary Slow Speed Stroke

Price Each	Extreme Length Inches	Diameter Cylinder Inches	Inlet Threaded I. P. S.	Outlet Threaded I. P. S.
\$7.00	24	2 3/4	1 1/4	1 1/2

"Perko" Navy Pump Strainers

HEAVY CAST BRONZE



Fig. 721



Fig. 722

	Price Each	Pipe Thread Inches	Length Inches	Width Inches	Weight Pounds
Fig. 721	\$1.10	1 1/4	5	2 3/4	1 1/2
Fig. 722	1.00	1 1/4	5	2 3/4	1 3/8

"Perko" Wing Pumps

DOUBLE ACTION—ALL BRONZE

FOR MARINE, INDUSTRIAL AND DOMESTIC USE

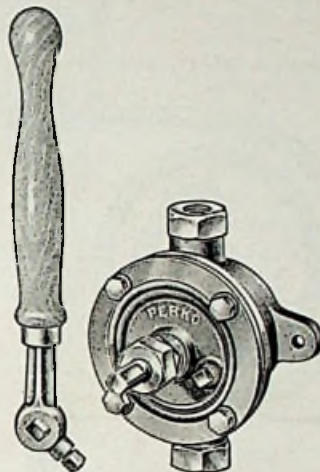


Fig. 681

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.

No.	Price Each	Size Pipe Connection Inches	Overall Diameter of Body Inches	Capacity Per Minute Gallons	Approx. Weight Each
0	\$15.00	1/2	5 1/2	5	11 1/2
1	17.00	3/4	5 3/4	7	14
2	19.50	1	6 5/8	9 3/4	19 1/2

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.

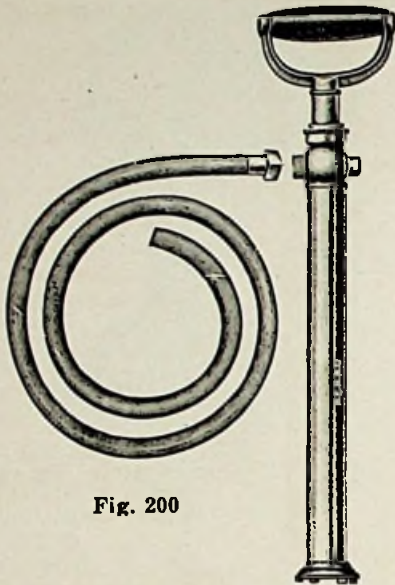


Fig. 200

Nos.	With Hose Each	Height Inches	Diam. Inches	Capacity Per Min. Gallons	Weight Pounds
1	\$3.25	16	1½	6	2¼
2	4.00	17	1½	12	3¼
3	4.25	26	1½	8½	3
4	5.00	26	1½	16½	4

Brass Bilge Pumps

WITH SUCTION HOSE AND STRAINER

Cast bronze foot rest and two 5 foot lengths of hose for suction and discharge.

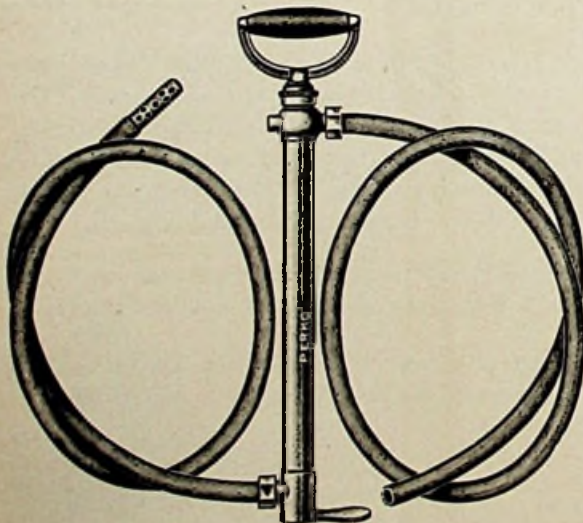


Fig. 202

Nos.	With Hose Each	Height Inches	Diam. Inches	Capacity Per Min. Gallons	Weight Pounds
5	\$5.25	16	1½	6	3
6	6.00	17	1½	12	4
7	6.50	26	1½	8½	3¼
8	7.50	26	1½	16½	5

Brass Bilge Pump

DOUBLE ACTION

WITH BULKHEAD BRACKETS

Complete with 2 five foot lengths of hose and suction strainer.

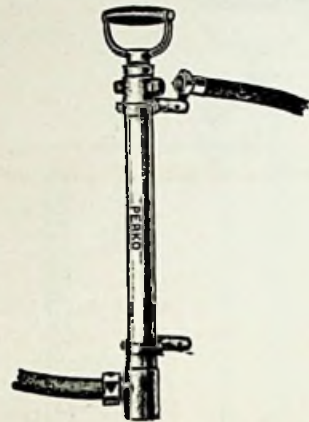


Fig. 524

Nos.	With Hose Each	Height Overall Inches	Diam. Pump Inches	Weight Pounds
11	\$7.50	17	1½	9
12	9.00	26	1½	10

Special Bilge Pump

SINGLE ACTION — ALL BRASS

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, 3½ gallons per minute.

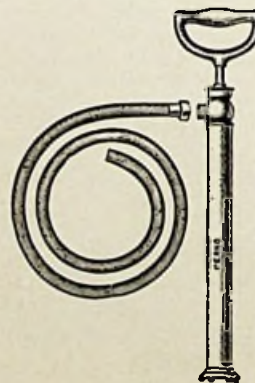


Fig. 723

Complete Each	Extra Hose Each	Diameter Inches	Extreme Length Inches	Weight Pounds
\$2.25	\$.90	1½	16	2

Rubber Hose and Strainer

FOR FIG. 200 AND 202 BRASS BILGE PUMPS

Heavy moulded rubber hose, durable and lasting. ¾ inch inside diameter.



Fig. 208 Fig. 209

Standard 5 ft. lengths Cast Bronze Strainer Other lengths of hose can be furnished. Price on application.

Each
\$.90
.60

Trench or Bilge Pump

GALVANIZED

Made of heavy tubing, formed from black iron and hot 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.

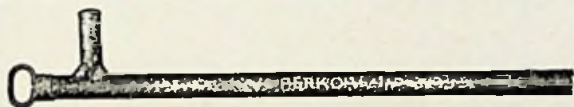


Fig. 158

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.



Fig. 344

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

Heavy Duty Bilge Pumps

SPIRAL LOCK SEAMED BODY

24 B. & S. Gauge Steel, Hot Galvanized After Forming

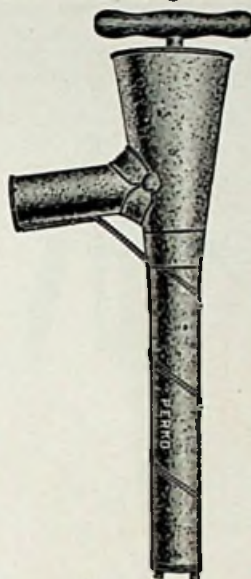


Fig. 724

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

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.

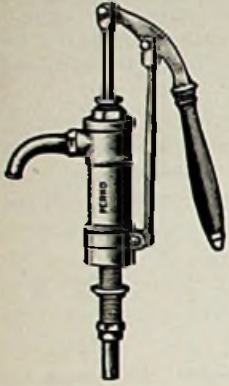


Fig. 473
With Straight Base

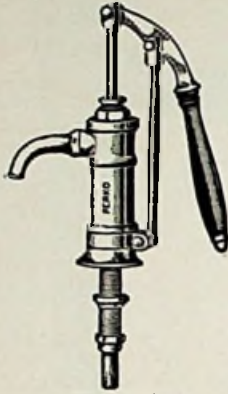


Fig. 478
With Flange Base

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.

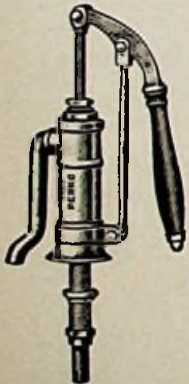


Fig. 474
With Flange Base

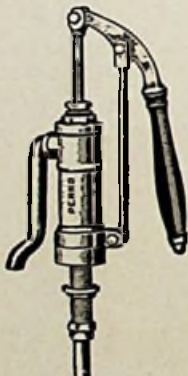


Fig. 479
With Straight Base

Diam. Pump Inches	Height Overall Inches	Spread, Handle Up Inches	Spread, Handle Down Inches	Weight Lbs.
1½	14½	13	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, all necessary couplings and stop cock.

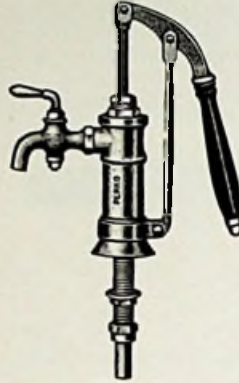


Fig. 525

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 regularly furnished.

PRICE EACH

Polished Bronze	Nickel Plated	Chromium Plated
\$12.25	\$13.25	\$18.00

Galley Pumps

BRASS TUBING—CAST BRONZE FITTINGS

With ¾ inch pipe couplings or hose connections.

A double acting pump, complete with bulkhead brackets and necessary connections.



Fig. 345

Diam. Pump Nos.	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 or 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 overboard or into any handy carrier. A continuous flow of oil is maintained on both up and down strokes.

Capacity per minute—2 Gallons

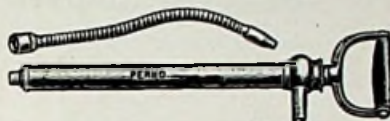


Fig. 146

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 1/8	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

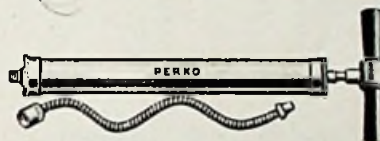


Fig. 388

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

Check Valves

CAST BRONZE

A simple but exceptionally dependable check valve. Threaded to fit standard pipe.



Fig. 273



Fig. 68



Fig. 69

Size Pipe Inches	Length Overall Inches	Weight Each Lbs.
3/4	2 3/4	3/4
1	3	1
1 1/4	3	1 1/4
1 1/2	3 3/4	1 3/4

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

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



Fig. 230

Turned from soft wood, smooth finish, 9 inches long.

Diam. of hole, in.	¾	1½
Price per doz.	\$1.44	\$1.92

Wood Pump Rods

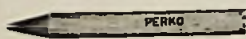


Fig. 231

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	.25



Cup Washer	{ No. 1	\$.20
Fig. 204	{ No. 2	.25



Split Washer	{ No. 1	\$.05
Fig. 205	{ No. 2	.07



Hollow Ball	{ No. 1	\$.30
Fig. 206	{ No. 2	.40

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 finished complete with set screws. 5/8 and larger have keyway and set screws.

No.	Price Each	Bore Inches	Length Inches	Outside Diameter Inches	Outside Hub Inches
1	\$1.00	¾ and 1/2	1 7/8	1 7/8	1
2	1.50	¾ to ¾	1 7/8	2 1/8	1 1/2

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

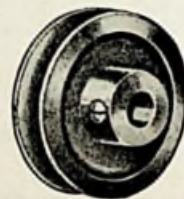


Fig. 688

No.	Price Each	Outside Diameter Inches	Bore Inches	Running Diameter Inches
1	\$1.00	3	¾ to ¾	2 7/8
2	1.50	4	¾ to ¾	3 1/2
3	2.00	5 1/4	¾ to ¾	4 3/4

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 of light weight yet practically indestructible.

No.	Each	Height Inches	Inside Diam. Inches	Pipe Thread Inches	Capacity Ounces
1	\$.30	1 7/8	1/2	1/8	1/8
2	.35	1 3/8	3/4	1/8	1/4
3	.45	2 1/8	1 1/4	1/8	2 1/2

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.

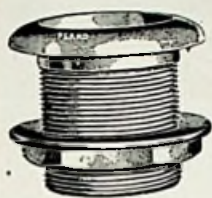


Fig. 322

Size Pipe Inches	Price Each	Length under Flange Inches	Weight Each
1/4	\$.65	1 3/8	1 oz.
3/8	.75	2 3/8	3 oz.
1/2	.90	2 3/4	4 oz.
3/4	1.00	2 1/2	8
1	1.25	2 1/2	12
1 1/4	1.75	3	1 1/2 lbs.
1 1/2	2.50	3 3/8	2 1/4
2	3.00	3 1/2	2 1/2
2 1/2	5.00	3 1/2	3 1/4

Scoop Strainers

CAST BRONZE

Can be used with inlet connection, Fig. 64. No. 1 will fit up to 1/2 inch. No. 2 will fit up to 1 inch. No. 3 will fit up to 1 1/4 inches.



Fig. 66

No.	Price Each	Outside Dimensions Inches	Weight Each
1	\$.30	3 1/2 x 2 1/2	4 oz.
2	.50	5 x 3 1/4	7 oz.
3	.90	6 1/4 x 4 1/4	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.

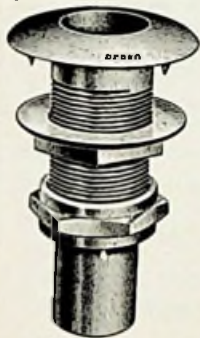


Fig. 64

Size Pipe Inches	Without Strainer Each	With Strainer Each	For Plank-ing Inches	Weight
1/4	\$1.15	\$1.50	7/8	2 oz.
3/8	1.25	1.75	1 3/8	4 oz.
1/2	1.40	1.90	1 5/8	7 oz.
3/4	1.65	2.15	1 7/8	10
1	2.00	2.75	1 3/4	1 lb.
1 1/4	2.75	3.75	1 3/4	2
1 1/2	3.75	5.50	2 1/4	2 1/4
2	5.00	7.00	2 1/2	3 1/4

Round Strainers

PLAIN CAST BRONZE



Fig. 86

Diam. Inches	Price Each	Depth Inches	Weight Each
2 1/2	\$.25	1/2	2 oz.
3	.30	5/8	4 oz.
4	.40	3/4	6 oz.
5	.75	1	12 oz.
6	1.00	1 1/4	1 lb.
8	2.00	1 3/8	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. 332

No.	Size Pipe Inches	Diam. Flange Inches	Length of Pipe Inches	Weight
1	3/4	2 1/4	2 1/4	12 oz.
2	1	3	3 1/4	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



Fig. 67
Straight Tail Piece



Fig. 78
90 Degree Tail Piece

Pipe Size Inches	Price Each Fig. 67	Price Each Fig. 78	Weight Each
1/4	\$.50		1 oz.
3/8	.50		2 oz.
1/2	.60		3 oz.
3/4	.60	\$.60	5 oz.
1	.75	.75	6 oz.
1 1/4	1.25		8 oz.
1 1/2	1.25	1.25	1 lb.
2	1.75	1.75	1 1/2 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. 65

Speedboat Strainers

CAST BRONZE

Designed to prevent clogging. Will admit full supply of water at all speeds.

Size Pipe Inches	Price Each	Length Pipe Inches	Size Strainer Inches	Weight Each
1/2	\$1.25	2 1/4	2 1/2 x 3 1/2	11 oz.
3/4	1.50	2 3/8	3 x 4	14 oz.
1	2.00	3	3 x 4	1 1/4 lbs.
1 1/4	2.50	3 3/8	3 3/8 x 4 1/2	1 3/8 lbs.
1 1/2	3.00	3 3/8	4 1/4 x 6 1/4	2 1/2 lbs.



Boat Closets

To be used either above or below the water line. Bowls are of white vitreous china, rim flushing. Cast bronze, 2½ inch diameter, supply and discharge pump with hemp packed piston. Waste valve contains leather clack washers; water supply take in through a combination supply and check valve with lever handle. Birch mahogany seat and cover with chromium plated hinges and rubber bumpers. All furnished with pump on right hand facing unless left hand is specified.

The Boatman

WITH HAND OPERATED SUPPLY VALVE



Fig. 828

Sizes overall—side to side, 17½ inches; back to front, 17½ inches; height to cover, 14¼ inches; net weight, 36 pounds; inlet, ¼ inch I. P. S.; outlet, 1½ inch I. P. S.

PRICE EACH COMPLETE\$25.00
Mahogany Finish Seat and Cover Only 4.75

The Yachtsman

WITH SELF CLOSING FOOT VALVE

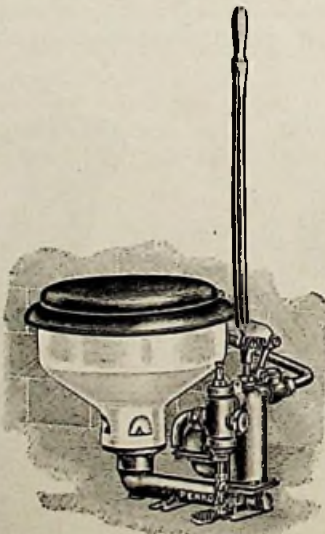


Fig. 829

Sizes overall—side to side, 17½ inches; back to front, 17½ inches; height to cover, 14¼ inches; net weight, 41 pounds; inlet, ¼ inch I. P. S.; outlet, 1½ inch I. P. S.

PRICE EACH COMPLETE\$35.00
Mahogany Finish Seat and Cover Only 4.75

Bronze Sea Cocks

WITH OR WITHOUT THRU HULL CONNECTION

With straight tail piece for lead pipe or hose connection. heavy galvanized malleable iron handle, pinned to cock to prevent loss, drain plugs on two sides of body.



Fig. 835

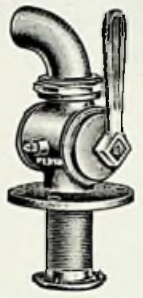


Fig. 834

Iron Pipe Size	Weight Each	With Hull Connection	Without Hull Connection	With Strainer
Inches	Pounds	Each	Each	Add Each
¾	3	\$4.50	\$3.75	\$0.25
1	4½	5.50	4.40	.25
1½	9½	9.75	8.50	.55
2	12	14.25	12.50	.75

Angle Sea Cocks

CAST BRONZE

WITHOUT THROUGH HULL CONNECTIONS

With locking plate, heavy galvanized malleable iron handle pinned to cock and tail piece for lead pipe or hose connection. ¾ inch size for intake and 1½ inch size of outlet.

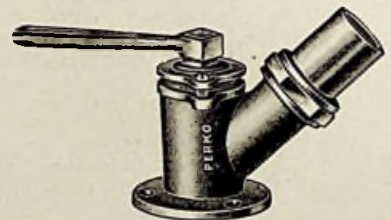


Fig. 836

Iron Pipe Size	Weight Each	Without Strainer	With Strainer
Inches	Pounds	Each	Each
¾	2	\$3.00	\$3.30
1½	4	5.50	6.00

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.

“Perko” Alcohol Stoves

TWO AND THREE BURNERS—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 neutral gray which will harmonize with the finish of most galleys. Other colors can be obtained if desired.

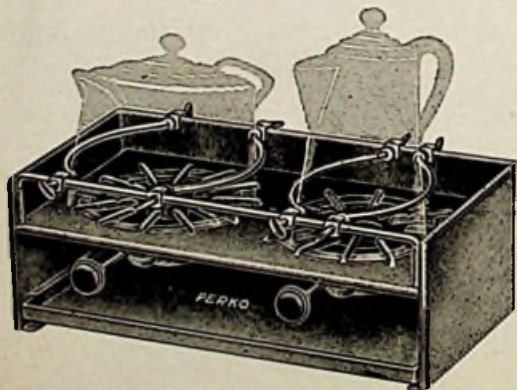
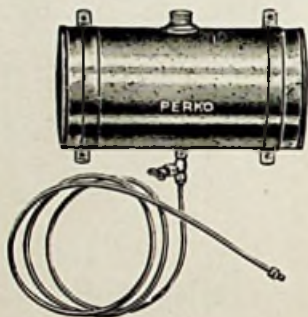


Fig. 714

	Extreme Length Inches	Extreme Height Inches	Extreme Width Inches	Weight Complete With Tank Pounds
2 Burner	20	7	14	24
3 Burner	31	7	14	36
2 Burner complete, except Pot Holders				\$18.00
3 Burner complete, except Pot Holders				27.00
Pot Holders—per pair—for one Burner				2.50
Tank, Tubing and Fittings, as Illustrated				5.00

STOVES FURNISHED COMPLETE WITH TANK, TUBING AND FITTINGS FOR INSTALLING

“Perko” Alcohol Stove

TWO BURNER TOP—OVEN BELOW

Gray and white vitreous enamel finish, substantial cast top of a size suitable for full size pots and pans

Furnished with marine rails, removable drip tray and one gallon copper tank with tubing and fittings as illustrated with Fig. 714.

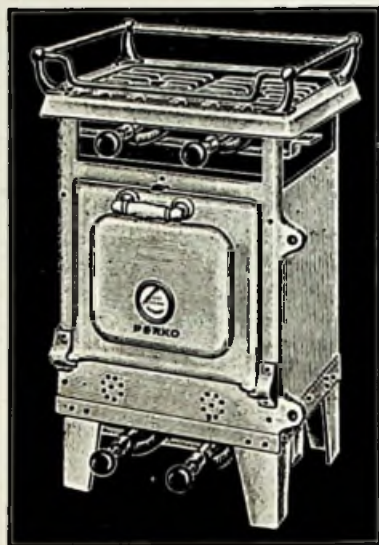


Fig. 550

Width Inches	Depth Inches	Height Inches	Oven Dimensions Inches	Weight Pounds
19	16	33	14x12x12	70

PRICE COMPLETE\$80.00

“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 30 gallon tank.

Overall Height Inches	Diam. Inches	Pipe Connections Inches
25	8	3/4

Price Complete with Copper Alcohol Tank and Fittings\$25.00

"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, each80

Fuel Tank for Alcohol Stoves

COPPER—1 GALLON CAPACITY

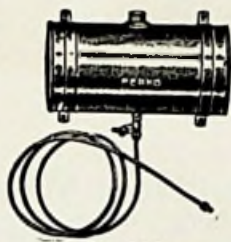


Fig. 980

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

Ovens for Alcohol Stoves

STEEL

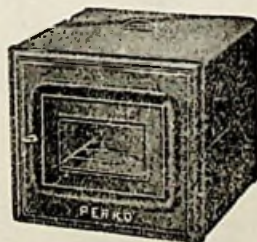


Fig. 265

Sheet steel body, black finish, hinged door with glass panel, heat deflector and two wire racks.

	Each	Dimensions Inches
1 Burner Type	\$2.50	13 x 12 x 11 3/4
2 Burner Type	5.00	20 1/2 x 12 1/4 x 16 3/8

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 1/4	8 3/8	4
4	2.10	4 3/8	9 1/4	5 3/8
4 1/2	2.30	4 1/4	10	6 1/2
5	2.50	5 3/8	10 1/2	7
5 1/2	3.00	5 1/4	11	9
6	3.40	6 1/4	11 1/4	9 3/8
7	3.90	7 3/8	13	11
8	5.75	8 1/8	14 3/8	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



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.

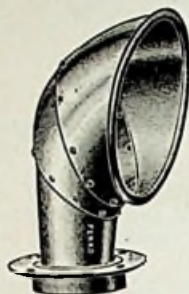


Fig. 369

Deck Plate Opening Inches	Diam. Mouth Inches
2	4
2½	5
3	6
3½	7
4	8
4½	9
5	10
6	12
8	16
10	20
12	24

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
10	45.00	53.00
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
10	53.00	61.00
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. Complete with spun brass cover for deck plate when vent is removed.



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 brass. All joints riveted. Brass rim around mouth galvanized vents. Complete with cover for deck plate when vent is removed.



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

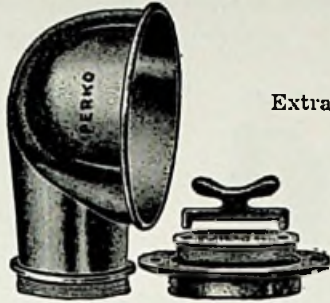
Deck Plate Size Inches	Galv. Iron Each	Polished Brass Each
3	\$10.20	\$12.20
4	14.25	16.25
5	18.75	21.25
6	23.75	26.75

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 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	7¾	4½
4	8	9¾	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

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.



Fig. 198

Diam. bottom opening, 3¾ in.
Diameter mouth, 5½ inches
Height overall, 9 inches
Diameter base, 6¾ inches
Weight each, 11 pounds

PRICE EACH

Polished	\$13.50
Nickel Plated	15.50
Chromium Plated	18.50

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 9¾ in.
Height overall, 12¼ in.
Diameter base, 7¾ in.
Weight each, 19 pounds

PRICE EACH

Polished	\$19.50
Nickel Plated	22.50



"Perko" Marine Exhaust Fans
(Also known as Blowers)

ELECTRIC 6—12—32—OR 110 VOLTS
HEAVY CAST ALUMINUM CASING AND FLANGE

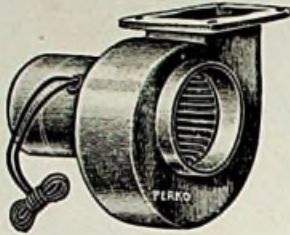


Fig. 778

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	Size Outlet	Dimensions Overall Inches	Capacity Cubic Feet Per Minute	Size Flange
	Inches	Inches			Inches
1	3	2 1/4	7 1/2 x 6 x 6	90	3 1/2 x 3 1/2
2	4	3	11 3/4 x 8 x 8	120	5 x 5

Volts	No. of Fans		Amperes		Watts	
	No. 1 Each	No. 2 Each	No. 1	No. 2	No. 1	No. 2
6	\$11.50		3.25		19.6	
12	11.50	\$38.00	1.70	3.6	20.8	42.8
32	11.50	38.00	.75	1.3	20.0	43.0
110	13.00	38.00	.25	.05	27.0	50.0

No. 2 Not Furnished for 6 Volts

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.

Polished Bronze Each \$8.00

Nickel Plated Each \$9.00

Chromium Plated Each \$14.50

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

"Perko" Exhaust Fan and Ventilators

WITH ROUND OR OVAL MOUTH VENTILATOR AND NO. 1 EXHAUST FAN, 3 INCH INTAKE

Round Mouth

Oval Mouth

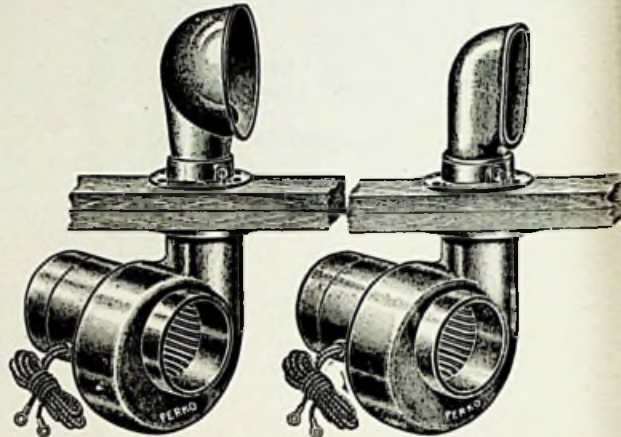


Fig. 780

Fig. 781

Fig. 780 has a spun brass or copper ventilator 2 1/2 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 plates. Price complete—either style \$17.00

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 and bilge, cooking odors from the galley, ventilation of the 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
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

Front View



Fig. 633



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 3/8	5 3/4	6 3/4	2 3/8	1 3/8

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.

Space Saver Ventilator

CAST BRONZE

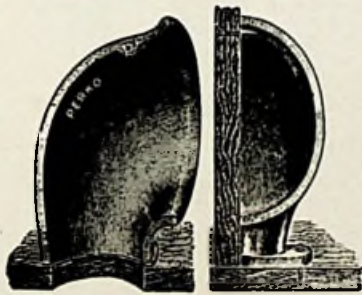


Fig. 782

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	Plain Bronze Per Pair	Polished Bronze Per Pair	Nickel Plated Per Pair	Chrome Plated Per Pair
2 1/2	1 1/2 x 6	7 1/2	\$4.50	\$5.00	\$6.50	\$10.00

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 1/4	3 5/8 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 1/8	1 1/8	3 3/8 x 4 3/8	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

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

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 1/8	4	19
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$1.75	\$2.00	\$3.50

Engine Compartment Hatch Ventilator

STREAMLINE PATTERN

For use on runabouts where ventilation is desired through side of raised hatch. Made of cast bronze.



Fig. 330

Diameter Opening Inches	Width of Flange Inches	Length of Flange Inches	Weight Ounces
1 3/8	2 1/4	4	4
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
\$1.25	\$1.75	\$2.50	

Ice Box Ventilators

CAST BRONZE—POLISHED



Fig. 783

No.	Price Each	Dia. of Opening Inches	Size Plate Inches
1	\$1.00	1 5/8	2 1/2 x 2 1/2
2	1.75	2 1/2	3 1/4 x 3 1/4
3	2.75	3	4 1/8 x 4 1/8
4	3.50	3 3/8	4 3/8 x 4 3/8

Letters and Figures

CAST BRONZE

REGULAR PATTERN

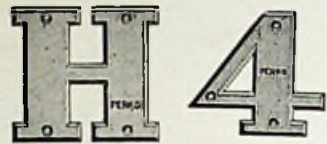


Fig. 348

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	.25	.35	.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

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.

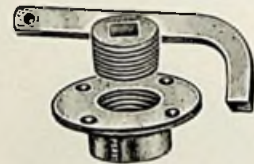


Fig. 124

Diam. Flange Inches	Depth Inches	Weight Oz.
2 3/4	1	10
Complete with Wrench, Each		\$1.25

Automatic Boat Drain

CAST BRONZE—PLAIN

For use in life boats. Made of heavy cast bronze, with hollow rubber ball valve. Cast bronze cover with chain attached.



Fig. 213

Size Opening Inches	Diam. Flange Inches	Price Each
1 1/4	3 3/8	\$2.50

Regular Deck Plates



Fig. 526

CAST BRONZE

Complete with key.

Diameter Opening Inches	Price Each	Diameter Plate Inches	Weight Each
1	\$.80	2½	3 oz.
1½	.90	3¼	5½ oz.
2	1.25	3¾	8½ oz.
2½	1.75	4½	14 oz.
3	2.25	4¾	1 lb.
3½	2.60	5½	1½ lbs.
4	2.75	5¾	1¾ lbs.
4½	4.00	6¾	2½ lbs.
5	4.25	7¼	3¼ lbs.
6	5.50	8¼	3¾ lbs.
8	10.50	10¼	6½ lbs.

Larger sizes up to 12 inches—Price on application.

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 ¼	\$ 4.00	8	7	\$12.00
4	3 ½	6.00	9	8 ½	14.00
5	4	7.50	10	9 ½	20.00
6	5	9.00	11	10 ½	22.00
7	6	10.00	12	11 ½	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 2½ inch inclusive.

Size Opening Inches	Price Each	Size Opening Inches	Price Each
¾	\$1.00	3	\$ 3.75
1	1.25	3½	6.50
1¼	1.50	4	9.00
1½	1.75	5	11.00
2	2.00	6	14.00
2½	2.50		

Ventilator Deck Plates



Fig. 527

CAST BRONZE

Complete with key and extra ring for hood ventilator.

Diameter Opening Inches	Price Each	Diameter Plate Inches	Weight Each
2	\$2.00	3¾	12 oz.
2½	2.50	4½	1 lb.
3	3.10	4¾	1¼ lbs.
3½	3.60	5½	1¾ lbs.
4	4.00	5¾	2¼ lbs.
4½	5.50	6¾	3¼ lbs.
5	6.00	7¼	3¾ lbs.
6	7.50	8¼	4½ lbs.
8	15.00	10¼	7½ lbs.

Larger sizes up to 12 inches—Price on application.

Manhole Plates

WATERTIGHT

GALVANIZED IRON AND CAST BRONZE

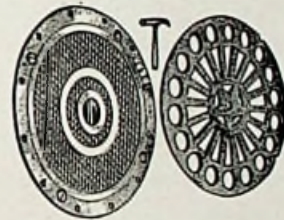


Fig. 662

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	15½
5	30.00	58.00	23.00	45.00	18
6	34.00	78.00	26.00	60.00	20

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

Two Tone Signal Horns

Solid brass. Very loud, double tone. Blown by mouth. Easily taken apart.

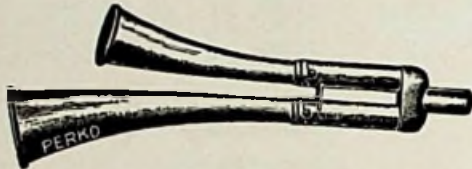


Fig. 165

PRICE PER DOZEN

Length Overall Inches	Polished Brass	Nickel Plated
10	\$26.00	\$30.00

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

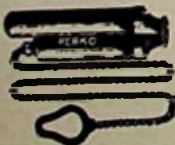


Fig. 167

A whistle is required by law on outboard 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

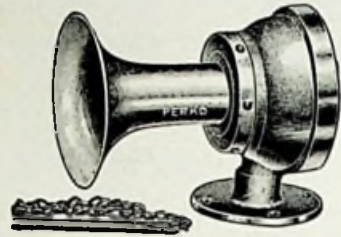


Fig. 825

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 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 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 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	5½	¾
2	17.50	4	3½	8½	¾

Air-tone Marine Horns

POWERFUL TONE OF AN AIR WHISTLE

CHROMIUM PLATED

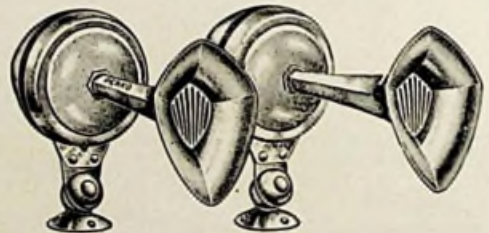


Fig. 808

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, 13¾ inches.

Price per pair, 6 or 12 volt\$27.00

Price per pair, 32 volt 34.00



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.

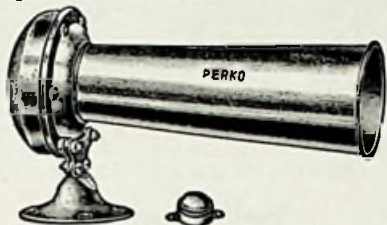


Fig. 73

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.

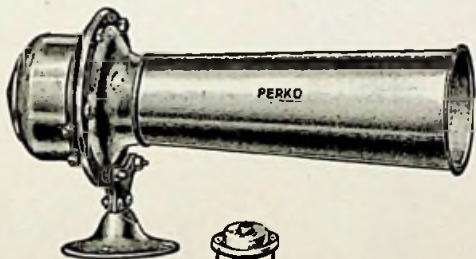


Fig. 75

Length Overall Inches	Height Overall Inches	Diam. Base Inches	Polished Brass Each	Chromium Plated Each
15 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 1/4 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.

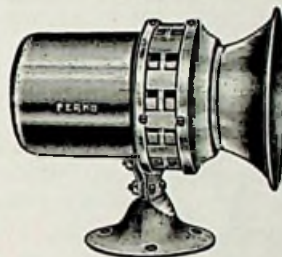


Fig. 192

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.

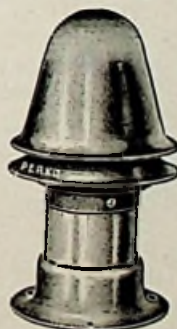


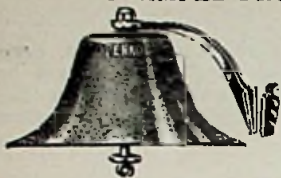
Fig. 193

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

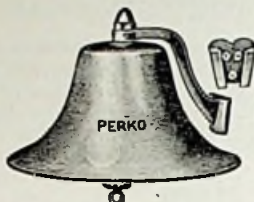
Diam. Inches	Plain Brass Each	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
6	\$1.10	\$1.25	\$1.75	\$4.25
8	1.95	2.15	2.65	5.00

WALL PLATES ONLY

For Diam. Bell Inches	Plain Brass Each	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
6	\$.25	\$.30	\$.40	\$.75
8	.25	.30	.40	.75

Cast Fog Bell

LIGHTWEIGHT



Cast from bell metal. removable bracket.

Diameter 6 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	Plain Each	Polished Each	Nickel Plated Each	Chromium Plated Each
6	\$2.20	\$2.55	\$3.55	\$6.00
8	3.95	4.30	5.30	7.90

WALL PLATES ONLY

For Diam. Bell Inches	Plain Each	Polished Each	Nickel Plated Each	Chromium Plated Each
6	\$.35	\$.45	\$.60	\$.90
8	.45	.55	.70	1.00

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

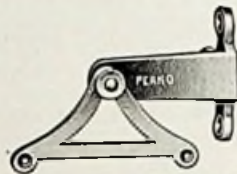
Diam. Inches	Plain Each	Polished Each	Nickel Plated Each	Chromium Plated Each
6	\$4.20	\$5.20	\$6.20	\$ 8.50
8	7.50	8.85	9.85	13.25

WALL PLATES ONLY

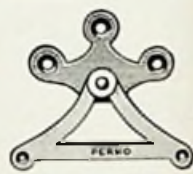
For Diam. Bell Inches	Plain Each	Polished Each	Nickel Plated Each	Chromium Plated Each
6	\$.45	\$.60	\$.75	\$1.20
8	.55	.70	.85	1.40

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 1/2
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 1/8	\$1.00	\$1.50	\$2.50	\$3.50
3 1/2	1 3/8	1.75	2.25	3.50	5.00

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	Plain Each	Polished Each	Nickel Plated Each	Chromium Plated Each
8	\$11.50	\$13.00	\$14.50	\$19.00
10	21.50	24.00	25.50	32.00

WALL PLATES ONLY

For Diam. Bell Inches	Plain Each	Polished Each	Nickel Plated Each	Chromium Plated Each
8	\$.75	\$1.00	\$1.25	\$2.00
10	1.00	1.30	1.60	2.60

Brass Telegraph or Bell Chain

Links are stamped from heavy gauge brass, faste together by brass rivets, which are finished flush 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 100 Links
\$.50	3/4	1/32	31

Rope Swimming Ladders

WITH ROUND WOOD RUNGS



Made of 5/8 inch best grade manila rope with hardwood rungs in mahogany finish, distance between rungs about 12 inches. Size of rung 1 1/4 x 14 inches

Length Feet	Quantity of Rungs	Price Each
3 1/2	2	\$3.00
5	3	3.50
6	4	4.00
7	5	5.00
8	6	6.00

For longer lengths add \$1.00 per foot

Fig. 991

Rope Swimming Ladders

WITH FLAT WOOD STEPS



Made of 5/8 inch best grade manila rope with ash steps, varnished. Size of step 20x3 1/4 x 3/4.

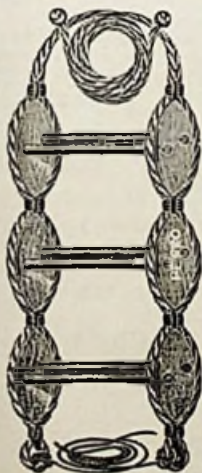
Length Feet	Quantity of Rungs	Price Each
3 1/2	2	\$3.50
5	3	4.50
6	4	6.00
7	5	7.50
8	6	9.00

For longer lengths add \$1.50 per foot

Fig. 992

Rope Boarding Ladders

WITH OVAL SIDES AND DOUBLE RUNGS



The finest boarding ladder on the market. Made of first grade 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
12	14 x 1 1/4

Price per step complete\$2.00

Fig. 993

Ladder Locks

CAST BRONZE



Fig. 669

Height Inches	Length Socket Inches	Length Bracket Inches	Weight Per Set Ounces
1 1/4	1	1 1/4	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

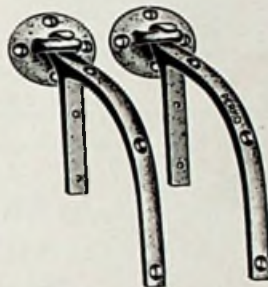


Fig. 670

Extreme Length Inches	Length Brace Inches	Size of Plate Inches	Weight Per Set Pounds
12	4	2 1/2 x 3 3/8	4
Polished Bronze Per Set	Nickel Plated Per Set	Chromium Plated Per Set	
\$8.50	\$10.00	\$12.50	

Ladder Hooks

CAST BRONZE

WITH FLUSH PLATES FOR DECK

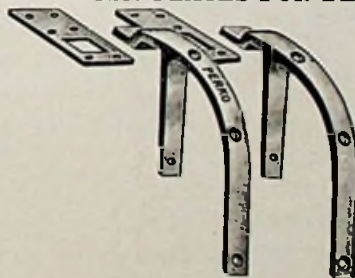


Fig. 994

Extreme Length Inches	Length Brace Inches	Size of Plate Inches	Weight Per Set Pounds
10	3 3/4	3 1/4 x 2	4
Polished Bronze Per Set	Nickel Plated Per Set	Chromium Plated Per Set	
\$8.50	\$10.00	\$12.50	



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

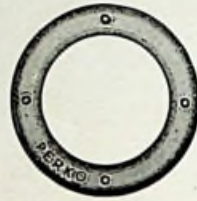


Fig. 71

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 Plate Each
3	\$2.75	\$3.00	\$5.00	3	1/4	3 7/8	5 3/4	\$.60	\$.95	\$1.35	\$1.95
4	3.00	3.25	6.00	4	1/4	4 3/8	6 1/4	.65	1.00	1.40	2.00
5	3.75	4.50	7.25	5	3/8	4 7/8	6 3/4	.70	1.10	1.60	2.25
6	4.50	5.25	8.00	6	3/8	5 1/4	7 1/4	.75	1.25	1.85	2.50
7	6.25	7.00	10.00	7	1/2	5 3/4	8	.80	1.50	2.10	2.75
8	7.75	8.50	12.50	8	1/2	6 1/4	8 1/2	1.00	1.90	2.50	3.25
9	10.25	11.50	16.50	8	1/2	7 1/4	9 3/4	1.10	2.10	2.80	3.60
10	12.50	14.00	20.00	8 3/8	1/2	8 1/4	11 1/4	1.50	2.50		
12	19.00	21.00	30.00	10 1/4	1/2	9 1/4	12 1/4	2.25	3.50		
						10 1/4	13 1/4	2.75	4.00		

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

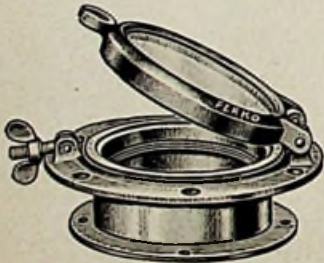
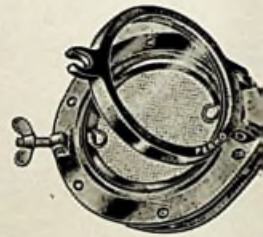


Fig. 157

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

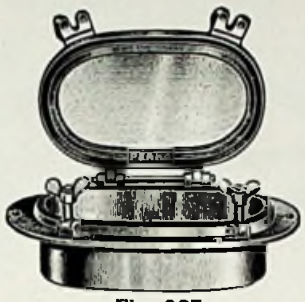


Fig. 907

PLAIN BRONZE

Size Opening Inches	For Thickness of Wood			
	1 1/2 Inch Each	2 Inch Each	2 1/2 Inch Each	3 Inch 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 Opening Inches	For Thickness of Wood			
	1 1/2 Inch Each	2 Inch Each	2 1/2 Inch Each	3 Inch 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

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 Lbs.
4	3.00	4.00	3/8	6 1/2	2
5	3.75	5.00	1/2	7 1/2	3 1/4
6	4.50	5.75	1/2	9	3 3/4
7	6.50	8.00	3/4	10	6 1/4
8	8.25	10.25	3/4	11	9 1/4

Wing Nuts for Portlights

For Diam. Bolt Inches	Plain Brass Each	Polished Brass Each	For Diam. Bolt Inches	Plain Brass Each	Polished Brass 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

Opening of Port-light Inches	Galvanized		Polished Brass	
	Without Screen Each	With Screen Each	Without Screen Each	With Screen 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 of Portlight Inches	Price 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 Port Light Inches	Price Each	Size Port Light Inches	Price 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 1/4 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 Port Light Inches	Price Each	Size Port Light Inches	Price 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.

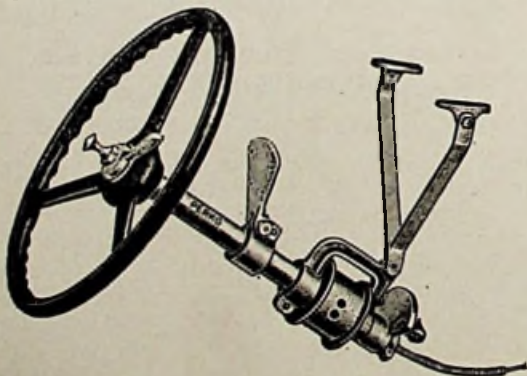


Fig. 448

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 Each \$18.00
 Bronze, Exposed Nickel Plated 18.50
 All Aluminum 18.00
 Without choke control deduct \$2.00 from above prices.

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 cored wheel and salt water resisting aluminum fittings, 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

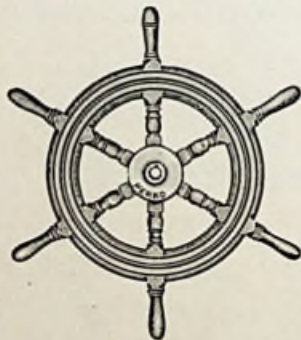


Fig. 657

Diam. Overall Inches	With Plugged Rim Each	With Inlaid Rim Each	With Brass Cheek Each	For Diam. Shaft Inches	Thickness of Hub Inches	Price Each
20	\$28.00	\$29.40	\$33.00	1	2	
24	30.50	31.20	36.50	1	2	
26	33.00	37.00		1	2 1/4	
28	35.00	40.00	44.50	1	2 1/4	
30	39.00	42.00	48.50	1	2 1/4	
32	43.50	48.00	65.00	1 1/8	2 1/4	
34	46.50	51.00	74.00	1 1/8	2 1/4	
36	67.00	66.60	85.00	1 1/4	2 3/8	
42	73.00	81.50	100.00	1 1/4	2 3/8	
48	86.00	92.50		1 3/8	2 3/8	

All above wheels are measured from end to end grips.

Bronze Steerers

MAHOGANY DRUM AND GRIPS
CAST BRONZE BRACKET



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

Size Base Inches	Diam. Drum Inches	Length Drum Inches
3 3/8 x 3 3/8	2 3/8	3
4 x 4	2 5/8	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

Bronze Worm Geared Steerer

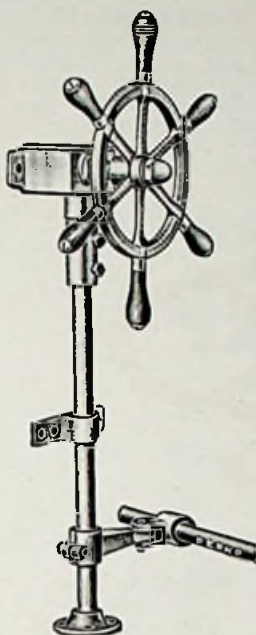


Fig. 820

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.

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

Galv. Malleable Steerers

MAHOGANY DRUM AND GRIPS
MALLEABLE IRON BRACKET



Fig. 661

Diam. Inches	Galv. Each	Handles Only Each	Handle Bolts Each	Drums Only Each	Base With Post Each	Nuts Only Each
12	\$ 3.00	\$.12	\$.10	\$.40	\$.75	\$.15
16	4.40	.12	.10	.80	1.00	.15
20	8.75	.15	.20	1.60	2.00	.20
25	16.00	.20	.25	3.25	4.00	.50

Size Base Inches	Diam. Drum Inches	Length Drum Inches
3 3/8 x 3 3/8	2 3/8	3
4 x 4	2 5/8	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

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

Bronze Steering Wheels

POLISHED—HEAVY TYPE
USED ON FIG. 674 CHAIN TYPE STEERER

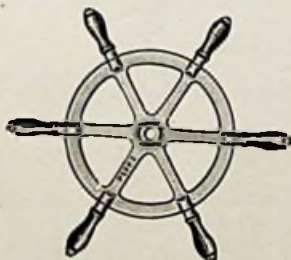


Fig. 976

Diam. Inches	Each	For Diam. Shaft Inches	Length Hub Inches	Keyway Inches
16	\$ 6.00	1/8	1 1/8	1/4
20	7.50	3/8	1	1/4
25	12.50	1	1 1/4	1/4

Galvanized Steering Wheels

WITH WOOD HANDLES, BRONZE TIPS

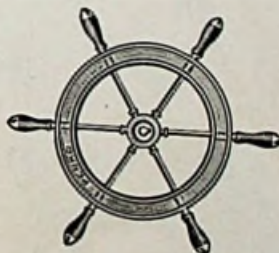


Fig. 977

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 1/8	9
22	15.50	6	1 1/8	2 1/8	13
25	18.00	6	1	2 3/8	16
28	21.00	6	1 1/8	2 1/8	21
30	24.00	8	1 1/4	3 1/8	31
36	33.00	8	1 3/8	3 1/8	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 $\frac{5}{8}$ 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
Diam. of Shaft
Inches

Size Wheel Inches	Price Each
16	\$20.00
20	26.00
25	34.00

WITH INLAID MAHOGANY WHEEL
FOR OUTSIDE BULKHEAD MOUNTING

WITH POLISHED BRONZE WHEEL
FOR INSIDE BULKHEAD MOUNTING

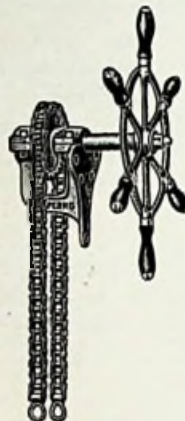


Fig. 675
Diam. of Shaft
Inches

Size Wheel Inches	Price Each
16	\$20.00
20	26.00
25	34.00

Give length of shaft when ordering
WITH INLAID MAHOGANY WHEEL
FOR INSIDE BULKHEAD MOUNTING

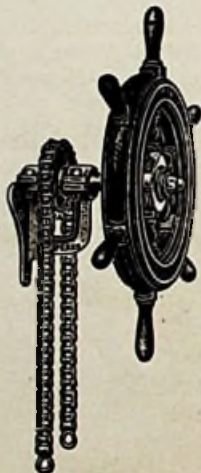


Fig. 676

Size Wheel Inches	Price Each
20	\$48.40
24	52.20
28	61.00

Diam. of Shaft Inches
$\frac{3}{8}$
1
$1\frac{1}{8}$

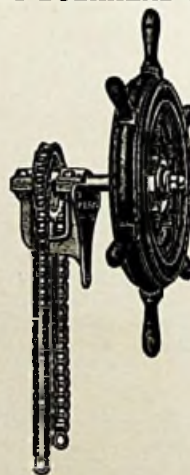


Fig. 677

Size Wheel Inches	Price Each
20	\$48.40
24	52.20
28	61.00

Give length of shaft when ordering

Diam. of Shaft Inches
$\frac{3}{8}$
1
$1\frac{1}{8}$

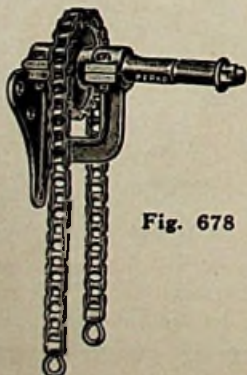


Fig. 678

BRACKET STEERER, COMPLETE EXCEPT WHEEL

Furnished complete with chain as shown, with long shaft and keyway for mahogany wheel.

Size Wheel Inches	Price Each
20	\$19.00
24	21.00
28	26.00

Diam. of Shaft Inches
$\frac{3}{8}$
1
$1\frac{1}{8}$

Extra 36 inch lengths of Brass Roller Chain with Ends, Price, \$6.00 Ea

"Perko" Reverse Gear Controls

HEAVY CAST BRONZE—POLISHED
FOR 1 INCH OR 1 1/8 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.

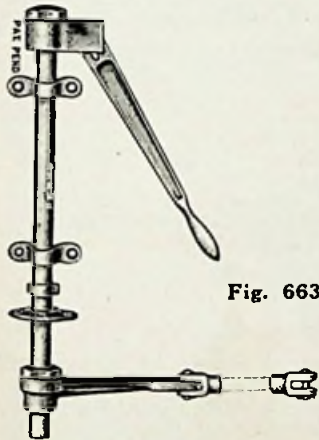
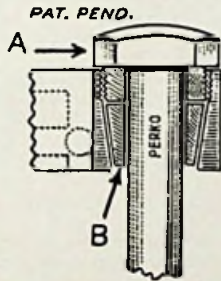


Fig. 663

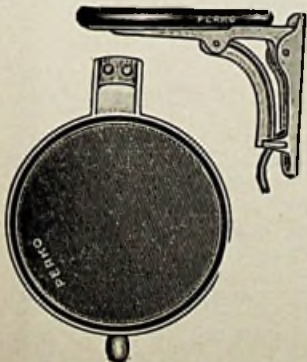
Interior view of tapered fastening device.



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 1/8	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 1/8 inch bronze shaft	29.00
Additional 1 inch bronze shaft—per foot	1.75
Additional 1 1/8 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	\$ 7.00	11	14
2	10.00	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.

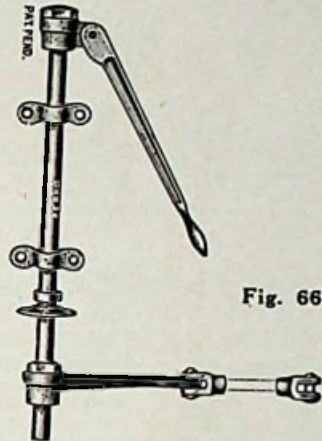


Fig. 664

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
Fittings 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

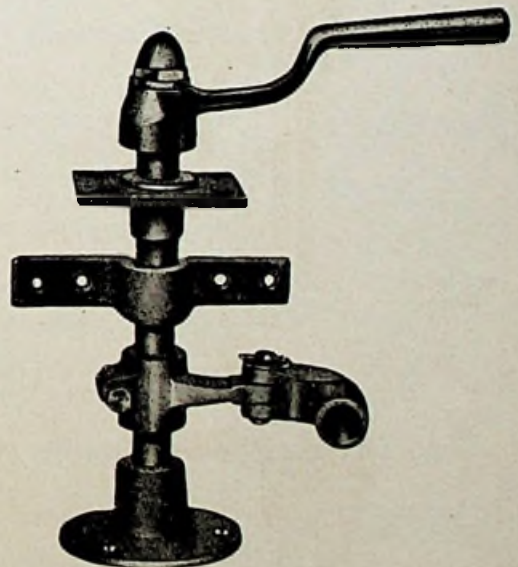


Fig. 822

Furnished as shown with choice of bulkhead bracket or floor 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

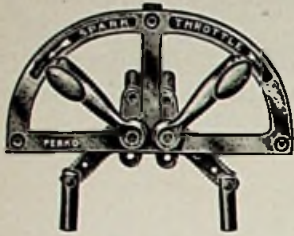


Fig. 653

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.

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Size Frame Inches	Weight Each 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.

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.

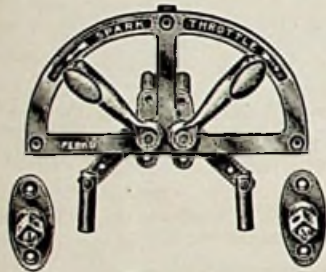


Fig. 654

For more detailed information on bowden clamp refer to Fig. 352.

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Size Frame Inches	Weight Each Pounds
\$6.00	\$8.00	\$10.00	6 1/2 x 3 1/4	1 1/2

Spark and Throttle Controls

CAST BRONZE



Fig. 904

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.

	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
Single	\$2.50	\$3.50	\$5.00
Double	3.75	5.25	7.00

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 \$.75

Brackets only—Pol. Bronze, each	1.00
Nickel Plated, each	1.50
Chromium Plated, each	2.00

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 Bronze Each	Nickel Plated Each	Chromium Plated Each	Length Plate Inches	Width Plate Inches
\$6.00	\$7.00	\$9.00	6	2 1/2

BE SURE TO SPECIFY SIZE OF ROD WHEN ORDERING

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 Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Length Plate Inches	Width Plate Inches
\$3.50	\$5.00	\$6.00	\$8.00	6	2 3/4

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 Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Length Plate Inches	Width Plate Inches
\$3.50	\$5.00	\$6.00	\$8.00	6	2 3/4

BE SURE TO SPECIFY SIZE OF ROD WHEN ORDERING

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

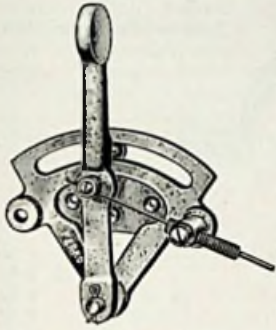


Fig. 350

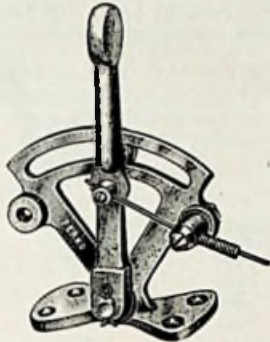


Fig. 351

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

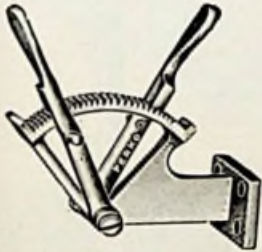
Prices do not include Bowden Wire or Casing.

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.

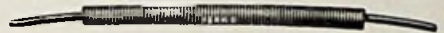


Fig. 353

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
1/4	\$.20
5/16	.25

Size of Slot Inches
1/8 x 3/4
1/4 x 3/4

Brass Control Rod



Fig. 299

Diam. Inches	Price Per Foot
1/4	\$.15
5/16	.20

Control Rod Sockets

HEAVY TYPE—CAST BRONZE



Fig. 298

Tapped for Rod Inches	Price Each
1/4	\$.25
5/16	.30

Size of Slot Inches
1/8 x 3/4
1/4 x 3/4

Brass Straps

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



Fig. 121

Inside Diam. Inches	Per 100	Inside Diam. Inches	Per 100
1/8	\$1.10	3/8	\$2.25
1/4	1.10	1/2	2.50
3/8	1.20	5/8	2.75
1/2	1.20	1	10.00
5/8	1.40	1 1/8	11.00
3/4	1.40	1 1/4	
1	1.60		

Control Wire Sockets

BRASS



Fig. 679

Complete with brass cotter pin and brass set screw.

Price Each \$.35

Price Does Not Include Control Wire

Universal Controls

REVERSE WITH SPARK AND THROTTLE ATTACHED

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 \$0.25

Adjustable Ball Joints

BRONZE

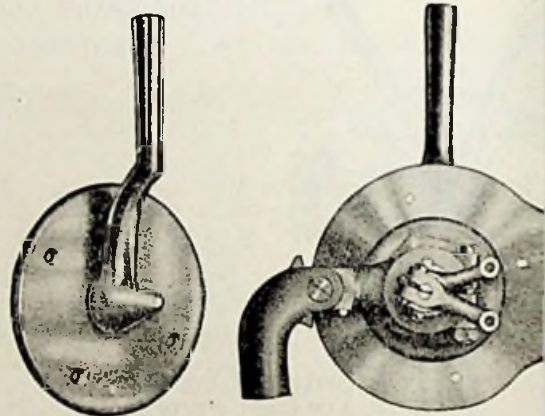


Fig. 793

Adjustable for wear, Ball is held by stiff spring and cannot rattle or work loose.

Threaded 1/4", 20 U.S.S.

PRICE EACH \$0.40



Front View

Fig. 290

Rear View

This assembly represents one of the most complete controls ever offered to the boating public—all bronze the levers and handle are all cast integral with the shafts. With the special lever and link connection, very little pressure on the handle is necessary to engage or disengage the most difficult gear. This control may be placed on the bulkhead or wheel box. Drag link threaded for 3/8 inch pipe.

Size Plate Inches	Handle Inches	Plate to Back Inches
6 1/8	8	4

Material	Price Each
Polished Bronze	\$31.00
Chromium Plated	35.00
Polished Brass Without S. & T. Control	17.00
Chromium Plated Without S. & T. Control	21.00

"Perko" Adjustable Shaft Logs

ALL CAST BRONZE—EXTRA HEAVY

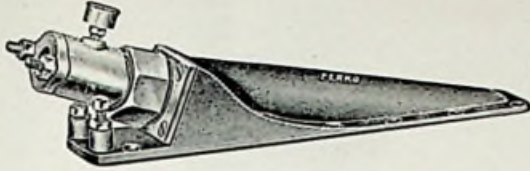


Fig. 627

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

"Perko" Self Aligning Shaft Log

CAST BRONZE

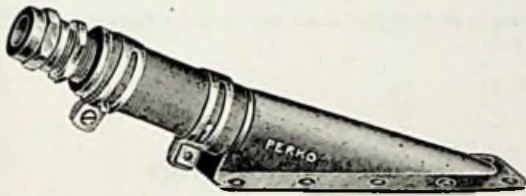


Fig. 671

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	Degree 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	2.40	5 3/8	5	8

When Ordering Box state Size of Shaft

"Perko" Adjustable Strut

ALL CAST BRONZE
MARINE BABBITT BEARING

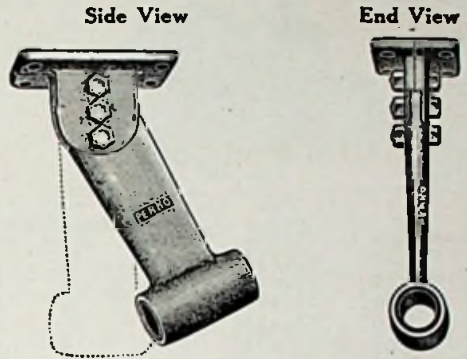


Fig. 628

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.

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				
6	8.25	8.25	8.25	\$11.25	\$11.25	\$13.00	\$13.00
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



Stuffing Boxes CAST BRONZE—REGULAR

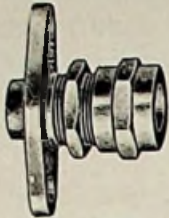


Fig. 320

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	1/4	1 1/2
1	2.00	4 1/2 x 2 1/4	3	1/4	1 3/4
1 1/8	2.50	5 1/8 x 2 3/8	3 1/4	1/2	2 1/4
1 1/4	3.00	6 x 2 5/8	3 3/8	1/2	3
1 3/8	3.75	6 1/4 x 3	3 3/8	1/2	3 1/4
1 1/2	4.50	6 1/2 x 3	3 1/4	1/2	3 1/2
1 3/4	6.50	7 x 3 3/4	3 3/4	5/8	5 3/4

Stuffing Boxes CAST BRONZE—HEAVY

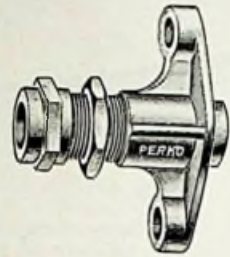


Fig. 631

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
7/8	4.00	5.50	5 1/8 x 2 3/4	3/8	4	3
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
1 1/4	6.00	7.75	7 x 3 1/2	5/8	5 1/2	6
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 5/8	10.00	13.25	8 5/8 x 4	3/4	7	10
1 3/4	11.50	15.00	9 1/8 x 4	3/4	7 1/2	11
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

Length of Bearing does not include Packing Nut.

Stern Bearings CAST BRONZE—REGULAR

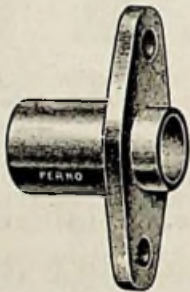


Fig. 321

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	1/4	1 lb.
1	1.50	4 1/2 x 2 1/4	3	1/4	1 1/4
1 1/8	1.75	5 1/8 x 2 3/8	3 1/4	1/2	1 1/2
1 1/4	2.00	6 x 2 5/8	3 3/8	1/2	2
1 3/8	2.50	6 1/4 x 3	3 3/8	1/2	2 1/4
1 1/2	3.25	6 1/2 x 3	3 1/4	1/2	2 1/2
1 3/4	4.00	7 x 3 3/4	3 3/4	5/8	3 3/4

Stern Bearings CAST BRONZE—HEAVY

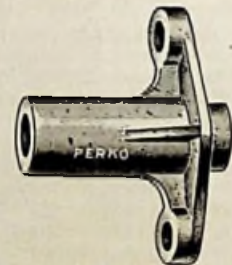


Fig. 632

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
7/8	2.75	4.25	5 1/8 x 2 3/4	3/8	4	2
1	3.00	4.75	5 3/4 x 3	1/2	4 1/2	2
1 1/8	3.25	5.00	6 3/8 x 3 1/4	1/2	5	3
1 1/4	3.75	5.50	7 x 3 1/2	5/8	5 1/2	4
1 3/8	4.50	6.25	7 5/8 x 3 3/4	5/8	6	6
1 1/2	5.50	7.75	8 1/8 x 4	3/4	6 1/2	7
1 5/8	6.75	10.00	8 5/8 x 4	3/4	7	8
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
2	10.75	15.25	10 1/8 x 4 1/2	3/4	8 1/2	11

Stuffing Boxes and Stern Bearing THREADED FOR PIPE

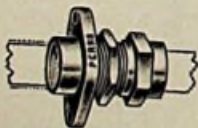


Fig. 711

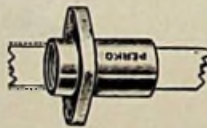


Fig. 712

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 3/8	1	1/4
1	2.75	1.75	4 3/4 x 2 7/8	1	1/4
1 1/8	3.25	2.00	5 3/4 x 3	1 1/4	1/2
1 1/4	4.00	2.25	6 x 3	1 1/4	1/2
1 3/8	5.00	2.75	6 1/2 x 3 3/8	1 1/2	1/2
1 1/2	5.50	3.25	6 3/4 x 3 3/4	1 1/2	1/2



Extra Heavy Stuffing Box
RECTANGULAR FLANGE—CAST BRONZE

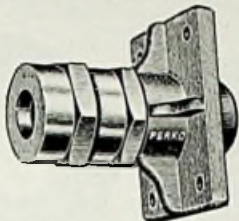


Fig. 819

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 3/8	4 3/8
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 1/4	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 1/2	8 3/4

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

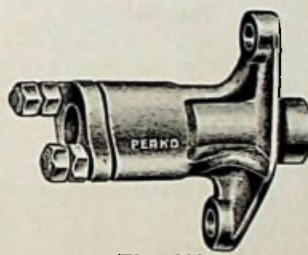
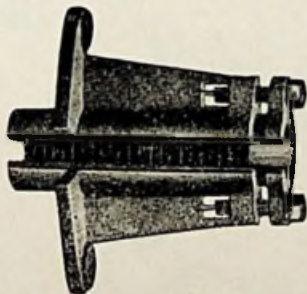


Fig. 630

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 5/8 x 3 1/4	6 1/4	7.75
1 3/8	7 1/4 x 3 3/8	6 3/4	8.75
1 1/2	8 x 4	7 3/4	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 1/8	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	5/8	6
1 3/8	7.00	8.75	7 3/8 x 3 3/4	5/8	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 1/2	7/8
3/4	1.00	1 3/4	7/8
7/8	1.05	1 3/4	5/8
1	1.10	1 3/4	5/8
1 1/8	1.25	2 1/4	5/8
1 1/4	1.30	2 1/4	5/8
1 3/8	1.65	2 3/4	5/8
1 1/2	1.65	2 3/4	5/8
1 5/8	2.20	2 3/4	1 1/8
1 3/4	2.20	3 1/4	1 1/8
2	2.85	3 1/4	1 1/8
2 1/4	3.10	3 3/4	1 1/8
2 1/2	3.60	3 3/4	1 1/8

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
5/8	\$1.00	1 1/2	7/8
3/4	1.10	1 3/4	7/8
7/8	1.15	1 3/4	5/8
1	1.25	1 3/4	5/8
1 1/8	1.35	2 1/4	5/8
1 1/4	1.40	2 1/4	5/8
1 3/8	1.75	2 3/4	5/8
1 1/2	1.85	2 3/4	5/8
1 5/8	2.20	2 3/4	1 1/8
1 3/4	2.20	3 1/4	1 1/8
2	2.85	3 1/4	1 1/8
2 1/4	3.10	3 3/4	1 1/8
2 1/2	3.40	3 3/4	1 1/8

Flat Bearings

BABBITTED



Fig. 789

For Shaft Size Inches	Price Each	Size Base In
3/4	\$1.10	2
7/8	1.30	2 3/4
1	1.30	2 3/4
1 1/8	1.60	3 3/8
1 1/4	1.60	3 3/8
1 3/8	1.95	3 3/8
1 1/2	1.95	3 3/8
1 3/4	2.75	4 1/2
2	3.50	4 1/2

Intermediate Bearings

BABBITTED



Fig. 941

Diameter Shaft Inches	Price Each	Length Overall Inches	Length Bearing Inche
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 1/2
3/4	1.00	1 3/4
7/8	1.00	1 3/4
1	1.10	1 3/4
1 1/8	1.25	2 1/4
1 1/4	1.25	2 1/4
1 3/8	1.65	2 3/4
1 1/2	1.65	2 3/4
1 5/8	2.20	2 3/4
1 3/4	2.20	3 1/4
2	2.85	3 1/4
2 1/4	3.10	3 3/4
2 1/2	3.40	3 3/4

"Northeast" Thrust and Intermediate Bearing Combined ALL ENCLOSED—RETAINS GREASE

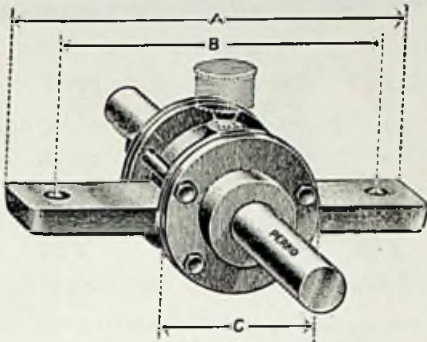


Fig. 742

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 1/2	3 3/4
3/4	8.80	10 1/2	9 1/2	3 3/4
7/8	10.00	10 1/2	9 1/4	3 3/4
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 3/8	15.40	11 1/4	9	4 1/8
1 1/2	17.60	11 1/4	9	4 1/8
1 3/4	19.80	12	10	4 1/2
2	22.00	12	10	4 1/2

Rear Bearings

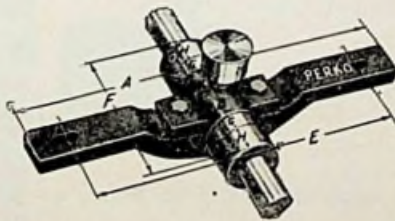


Fig. 790

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 1/2
1	4.25	13 1/2	10 3/4	5 1/2
1 1/8	4.25	13 1/2	10 3/4	5 1/2
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

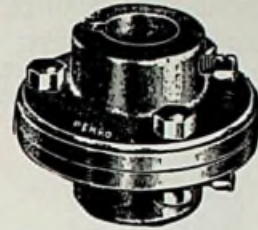


Fig. 327

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 3/8 - 1 3/4	1/2
1 3/8 - 2	1/2

Universal Joints

DROP FORGED STEEL

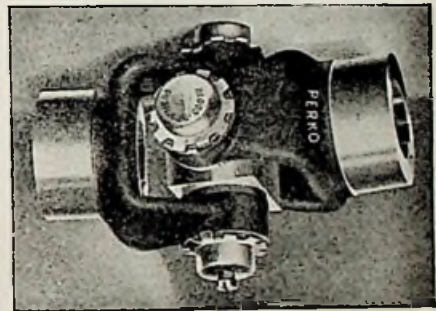


Fig. 791

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 3/4	8 1/2
5	32.80	60.00	2 3/8	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

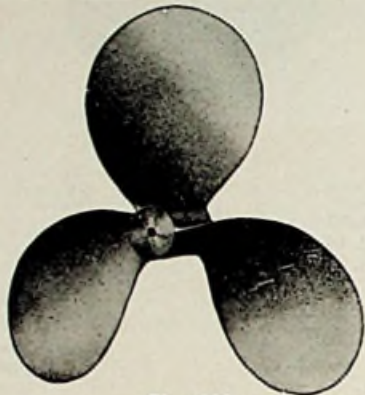


Fig. 809

Diam. Inches	3 Blade	2 Blade	Extra for Boring and Keyseating
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

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

Tobin Bronze Shafting



Fig. 812

Diam. Inches	Price Per Foot	Extra For Machining	Diam. Inches	Price Per Foot	Extra For Machining
3/8	\$.65	\$3.90	1 3/8	\$2.30	\$5.25
7/8	.90	3.90	1 1/4	2.75	5.25
1	1.20	3.90	1 3/4	3.75	5.90
1 1/8	1.50	4.60	2	5.35	7.25
1 1/4	1.90	4.60			

Crating of Shafts..... \$0.75 each shaft extra

Prices for machining includes tapering and threading, keyseating and nuts.

Reconditioning and Adjusting All Makes of Propellers

Diameter	Price	Diameter	Price
14 in. or less	\$3.00	24 in.	\$10.00
15	4.00	26	12.00
16	5.00	28	14.00
17	6.00	30	16.00
18	7.00	32	18.00
20	8.00	34	20.00
22	9.00	36	23.00

When shipping propellers, tag each propeller with your name and address. Not responsible for propellers breaking during adjusting.

Speed Boat Rudders

CAST MANGANESE BRONZE

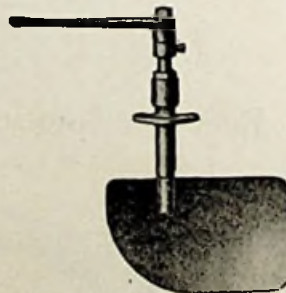


Fig. 813

Furnished complete with tiller, collar, nut and rudder port.

No.	Size of Rudder Stock, Inches	Diam. of Stock, Ins.	Total length of Stock, Inches	Length of Tiller, Ins.	Suitable for Boats	Price Complete	Extra for longer stocks, per inch	Rudder only with straight stock 19 in. long
1	9x14	1	12	12	16 ft. to 22 ft. long	\$20.90	\$.12	\$10.10
2	10x16	1	12	12	20 ft. to 26 ft. long	22.60	.12	12.80
3	11x18	1 1/8	12	14	26 ft. to 35 ft. long	25.40	.15	14.50
4	12x20	1 1/4	12	16	30 ft. to 40 ft. long	31.90	.20	19.20

Hysped Rudder and Stock

CAST MANGANESE BRONZE

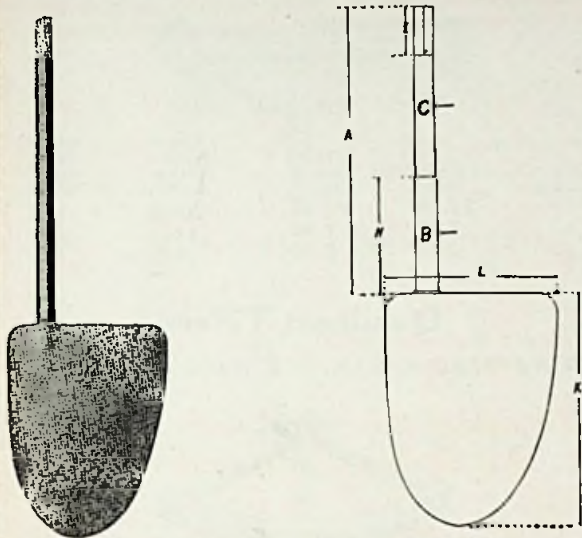


Fig. 818

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 1/2	1 1/2	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 1/4	2	5	24	18	12	56.00
8	40	2 1/2	2	5	26	20	12 1/2	70.00

Launch and Cruiser Rudders

CAST MANGANESE BRONZE

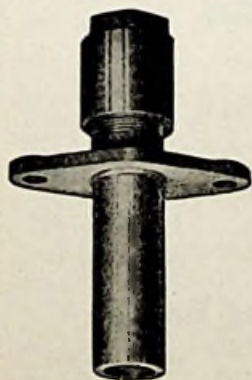


Fig. 816

Blade Size Inches	Blade Thickness Inches	Diam. of Stock Inches	Total Length of Stock, In.	Longer Stocks Per Inch	Price Each
12 x 12	3/4	1	12	\$.12	\$10.25
14 x 14	3/4	1	12	.12	13.75
16 x 16	3/4	1	12	.12	16.00
18 x 16	3/4	1	12	.12	17.00
18 x 18	3/4	1	12	.12	19.00
20 x 18	3/4	1 1/4	18	.20	21.00
20 x 20	3/4	1 1/4	18	.20	24.00
22 x 18	3/4	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 Ports

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 3/8	9.00

Fig. 814

Rudder Shoes or Skags

CAST MANGANESE BRONZE

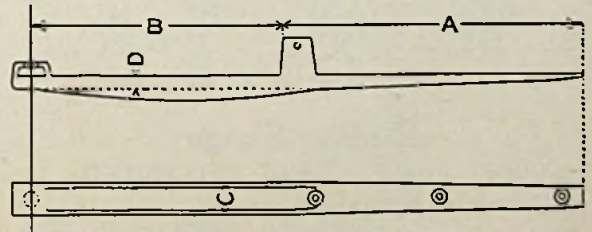


Fig. 817

No.	DIMENSIONS, INCHES				Price Each Plain
	A	B	C	D	
1	18	14	2	1/4	\$ 6.50
2	20	15	2 1/4	3/8	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 3/8	1.80



Fig. 815

Galvanized Rudders
GALVANIZED FORGED STEEL

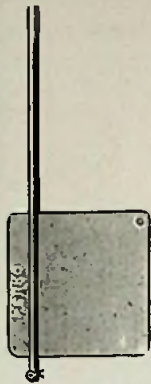


Fig. 647

Size No.	Galv. Each	Size Plate Inches	Length Rudder Post Inches	Diam. Rudder Post Inches	Weight Each Pounds
0	\$4.25	12x12x $\frac{1}{8}$	40	$\frac{3}{4}$	11
1	5.00	14x14x $\frac{1}{8}$	42	$\frac{3}{4}$	13
2	7.00	16x16x $\frac{1}{8}$	48	1	25
3	10.00	18x18x $\frac{3}{16}$	52	1	35

Bronze Rudders
CAST MANGANESE BRONZE

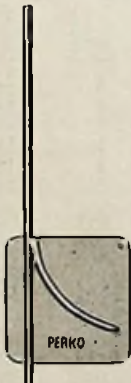


Fig. 648

Size No.	Plain Bronze Each	Size Plate Inches	Length Rudder Post Inches	Diam. Rudder Post Inches	Weight Each Pounds
0	\$12.00	12x12x $\frac{3}{16}$	40	$\frac{3}{4}$	13
1	14.00	14x14x $\frac{3}{16}$	42	$\frac{3}{4}$	16
2	22.00	16x16x $\frac{1}{4}$	48	1	32
3	28.00	18x18x $\frac{1}{4}$	52	1 $\frac{1}{4}$	48

Rudder Skags
DROP FORGED STEEL AND BRONZE

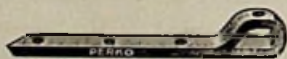


Fig. 649

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	4.00	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
10	\$1.25	\$2.25	$\frac{1}{8}$ x $\frac{1}{8}$	1 $\frac{1}{2}$
12	1.75	2.50	$\frac{3}{4}$ x $\frac{3}{4}$	2 $\frac{1}{2}$
15	2.25	5.00	$\frac{1}{8}$ x $\frac{7}{8}$	3 $\frac{1}{2}$

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 $\frac{1}{2}$
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 Pipes

GALVANIZED STEEL AND BRASS

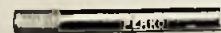


Fig. 652

Size No.	Galv. Each	Brass Each	Length Inches	Weight Each Pounds
0	\$1.00	\$2.25	12	1 $\frac{3}{4}$
1	1.00	2.25	12	1 $\frac{3}{4}$
2	1.50	3.50	15	2
3	1.75	4.50	18	2 $\frac{1}{2}$

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



Strap Rudder Braces

GALVANIZED MALLEABLE IRON

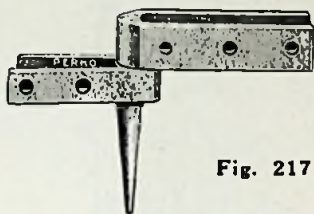


Fig. 217

Size No.	Per Set Complete	Pintles Only Pair	Straps Only Pair	Between Straps Inches	Weight Per Set Pounds
00	\$.50	\$.40	\$.25	$\frac{5}{8}$	$\frac{3}{4}$
0	.65	.50	.33	$\frac{3}{4}$	1
1	1.00	.70	.50	$\frac{7}{8}$	1 1/2
2	1.30	.90	.60	1	2
3	1.60	1.10	.75	1 1/4	2 7/8
4	2.30	1.50	1.05	1 1/2	4 1/4

Set consists of two Pintles and two Straps.

Screw Rudder Braces

GALVANIZED MALLEABLE IRON

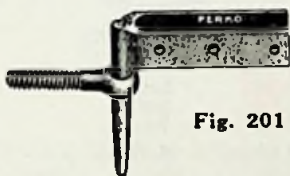


Fig. 201

Size No.	Per Set Complete	Pintles Only Pair	Gudgeons Only Pair	Between Straps Inches	Weight Per Set Pounds
1	\$.40	\$.30	\$.17	$\frac{5}{8}$	$\frac{5}{8}$
2	.50	.38	.24	$\frac{3}{4}$	$\frac{3}{4}$
3	.80	.70	.28	$\frac{7}{8}$	1
4	.90	.75	.28	1 1/8	1 1/2

Plate Rudder Brace

GALVANIZED MALLEABLE IRON

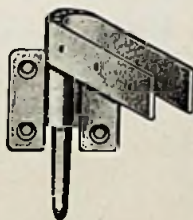


Fig. 743

DESIGNED FOR SQUARE STERN BOATS

Size No.	Price Per Set	Plates Only Per Pair	Straps Only Per Pair	Opening Between Straps Inches	Est. Wt. Per Set in Lbs.
1	\$.50	\$.25	\$.40	$\frac{5}{8}$	$\frac{3}{4}$
2	.65	.33	.50	$\frac{3}{4}$	1
3	1.00	.50	.70	$\frac{7}{8}$	1 3/8
4	1.30	.60	.90	1	2 1/8

Set consists of Two Plates and Two Pintles

Rope Deck Pipes

CAST BRONZE FOR MANILA ROPE



Fig. 741

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 3/4	3 5/8	1 5/8
1 1/4	5.00	5.80	2 1/8	4 3/4	2 5/8

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 3/4	\$1.45	\$3.50	\$4.50	\$6.00	$\frac{1}{8}$	1 7/8
2	1.55	4.50	5.50	7.00	1/4	2 5/8
2 1/2	2.50	6.50	7.50	9.00	3/8	4 3/8
3	2.90				1/2	5 7/8
3 1/2	4.60				5/8	9 1/4
4	5.70				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	$\frac{1}{8}$	3 1/2
2	3.80	6.00	7.00	8.50	3/8	4 1/4
3	5.75	10.00	11.00	14.00	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

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 5/8
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 Per Pr.	Plates Only Per Pr.	Pol. Per Pr.
1	2.00	3.00	1.15	1.65	1.15

Davis Pattern Rowlocks

GALVANIZED—MALLEABLE AND CAST IRON

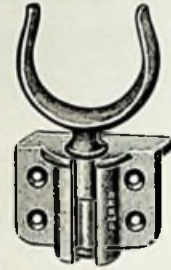


Fig. 641

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 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 1/8

Weight Per Pair Pounds
1 3/8

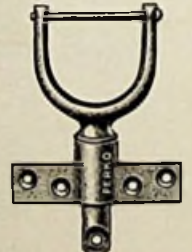


Fig. 644

	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

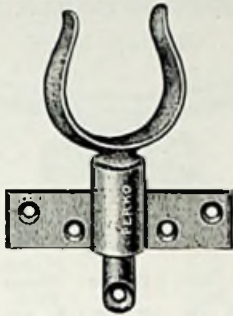


Fig. 645

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



Fig. 646

With Chain and Without Chain

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	3/8
1 Galv.	.50	.35	.25	2	1
0 Pl. Bronze	1.20	.80	.50	1 3/4	3/8
1 Pl. Bronze	1.20	.80	.50	2	1
0 Pol. Bronze	2.00	1.20	.90	1 3/4	3/8
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 5/8	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

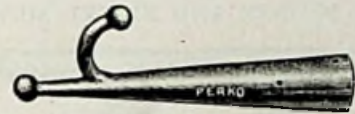


Fig. 224

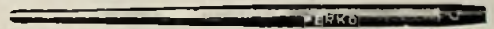
Size No.	For Diam. Pole Inches	Extreme Length Inches	Weight Each Ounces
3 1/2	1	7 3/8	8
4	1 1/4	8 1/4	10
5	1 1/2	9 3/8	16

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

Boat Hook Poles

SELECTED ASH



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

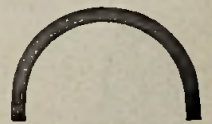


Fig. 850

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 Inches	Mall. Iron Each	Cast Iron Each	Polished Bronze Each	Nickel Plated Each	Chrom. Plated Each	Nickel Silver 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	1.75	1.25	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 Cleats

GALVANIZED IRON AND BRONZE
SQUARE BASE



Fig. 583

Length Inches	Mall. Iron Each	Cast Iron Each	Pol. Bronze Each	Nickel Plated Each	Chrom. Plated Each	Weight Each Ounces
2	\$.12	\$.06	\$.35	\$.45	\$.95	1
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 Inches	Weight	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Nickel Silver 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 No.	Length Inches	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
1	2½	\$.35	\$.60	\$1.00
2	2¾	.50	.75	1.20

Awning Cleats

GALVANIZED MALLEABLE IRON



Fig. 927

Length Inches	Per 100 Pieces	Weight Per 100 in Lbs.
4½	\$4.00	4¾
6	5.50	8¾
8	8.00	13¾

Fender Cleats

CAST BRONZE AND NICKEL SILVER



Fig. 444

Length Inches	Polished Bronze Each	Nickel Plated Each	Chrom. Plated Each	Nickel Silver Each	Base Inches	Weight Oz.
2¼	\$.35	\$.45	\$.95	.45	1½x1	2½

Fender Hooks

CAST BRONZE AND NICKEL SILVER



Fig. 547

Length Overall Inches	Width Overall Inches	Polished Bronze Each	Nickel Plated Each	Chrom. Plated Each	Nickel Silver Each
1¾	1¼	\$.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 Overall Inches	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Nickel Silver Each	Size Base Inches
1¾	\$.35	\$.45	\$.95	\$.45	¾x¾

Beveled Bow Chocks

GALVANIZED AND CAST BRONZE



Fig. 546

Length Inches	Galv. Iron Per Pair	Polished Bronze Per Pair	Nickel Plated Per Pair	Chrom. Plated Per Pair	For Diam. Rope Inches
3	\$.35	\$1.30	\$1.70	\$2.50	3/8
4	.40	1.50	1.90	2.75	1/2
5	.50	2.00	2.40	3.50	5/8-3/4
6	1.00	2.50	2.90	4.30	7/8
8	1.60	4.00	4.50	6.20	1
10	2.40	6.50	7.25	9.00	1 1/4
12	4.75				1 3/4
15	9.50				2
18	14.00				2 1/4

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	\$2.40	\$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	Galv. Iron Each	Polished Bronze Each	Nickel Plated Each	Chrom. Plated Each	For Diam. Rope Inches
4	\$.18	\$.75	\$1.00	\$1.70	3/8
5	.30	1.00	1.25	1.95	1/2
6	.43	1.25	1.50	2.25	5/8
8	1.10	2.00	2.50	3.25	1 1/4
10	1.30	3.50	4.00	5.00	1 3/8
12	2.25				1 5/8
15	4.25				1 3/4
18	7.10				2

Skene Stern Chocks

CAST BRONZE



Fig. 161

Size No.	Length Inches	Width Inches	Opening Inches	Weight Each Pounds
11	4	7/8	5/8	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

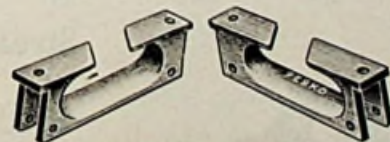


Fig. 768

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 3/8	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 2¾	Up to ¾
4½	1½ x 3¾	Up to ¾
5½	1¾ x 4	Up to 1

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 ¾
6	1¾	Up to 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 ¾
6½	1¾	Up to 1

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 1¾

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 1¾

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 1/8	7/16	3
10	1.10	.90	4 3/4 x 2 1/2	1/2	5 3/4
12	1.80	1.45	6 7/8 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	7/8	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 1/2	8

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$1.75	\$2.00	\$3.25

Mooring Bitt

CAST BRONZE

One solid casting, except horizontal bar, which is of bronze rod and goes clear through casting, brazed both ends.

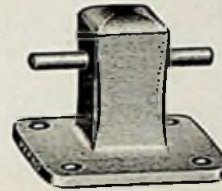


Fig. 608

No.	Size Base Inches	Height Inches	Net Weight Lbs.
1	3 x 3	2 1/2	7 7/8
2	4 1/2 x 4 1/2	3 1/2	17 1/8
3	6 x 6	5	55 1/2

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

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	7/8
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

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	3 x 3	3/8
4	8	14	25	40	01	2.40	6.00	5 3/4	5 3/4	3 1/2 x 3 1/2	3/8
5	9	16	28	50	1	3.70	9.00	7	6 1/2	4 1/2 x 6	1/2
					1 1/2	6.75	12.50	8 1/2	8 1/2	5 x 6	3/8
					2	9.25	17.50	10	10	5 1/2 x 8 1/2	3/8

PRICE PER POUND \$.25

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

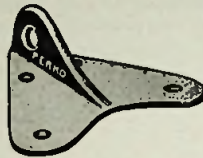


Fig. 181

Weight
Bronze
Oz. 10

Weight
Aluminum
Oz. 2 1/2

Polished
Aluminum
Each
\$1.00

Ring on Plate

GALVANIZED DROP FORGED STEEL



Fig. 607

No.	Galvanized Each	Size Ring Inches	Size Plate Inches	Weight Per 100 in Lbs.
1	\$.40	5/8 x 1 1/2	2 x 2 x 3/8	33
2	.50	3/4 x 2	2 x 2 x 1/4	50

Ring on Plate

STREAMLINE PATTERN
CAST BRONZE



Fig. 182

No.	Length Base Inches	Width Base Inches	Diam. of Ring Inches	Weight Oz.
1	2 1/4	1 1/2	1 1/4	4
2	3 3/4	1 7/8	1 7/8	6

No.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
1	\$.80	\$1.05	\$2.00
2	.95	1.20	2.25

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 Inches	Width Inches	Diam. Rope Inches	Weight Oz.
1	3 3/4	4 1/4	Up to 5/8	11
2	3 3/4	4 1/4	Up to 1	15

No.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
1	\$2.50	\$2.75	\$3.50
2	2.75	3.00	3.75

Ring and Deck Strap

CAST BRONZE



Fig. 183

Diam. Ring Inches	Length Strap Inches	Width Strap Inches	Weight Oz.
1 1/8	3	5/8	4

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$.70	\$.90	\$1.50

Combination Bow Plate

CAST BRONZE



Fig. 539

Size Plate Inches	Diam. Eye Inches	Chocks for Rope Inches	Weight Bronze Oz.
4 1/8 x 4 3/8	3/4	3/8	11

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$3.00	\$3.50	\$4.80

Ring With Strap

CAST BRONZE



Fig. 1004

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Inside Diam. Ring Inches	Length Strap 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

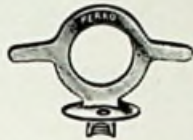


Fig. 188

Nos.	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 1/4	2	2 1/2	3/4	1

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
5	4	2 1/2	1 1/2	1 1/2 x 2 1/2	3/4	13 oz.
6	6 1/4	3 1/4	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 7/8	7/8

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
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

Lifting Handle and Cleat

CAST BRONZE



Fig. 540

Length Overall Inches	Height Inches	Size Base Inches
4 3/8	2 1/4	1 1/2 x 2 1/2

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$.60	\$1.00	\$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 Size of Post 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 Size of Post 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 Diam. Inches	Extreme Height Inches	Size of Base Inches	Weight Each Ounces
1	1 3/4	3/4 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 Diam. Inches	Polished Per Foot	Nickel Plated Per Foot	Chromium Plated Per Foot
1/2	\$.35	\$.55	\$.75
3/8	.40	.60	.80
3/4	.45	.70	.95
7/8	.50	.80	1.10

Rail Stanchions

FOR WOOD HAND RAILS
GALVANIZED FORGED STEEL

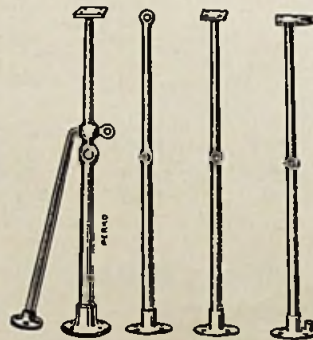


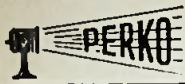
Fig. 939

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 Inches	Height 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 AND NICKEL SILVER

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	Nickel Silver Each
1	\$3.50	\$4.00	\$4.75	\$4.00
2	3.50	4.00	4.75	4.00

Grab Rails

Made of heavy brass tubing with cast bronze posts.

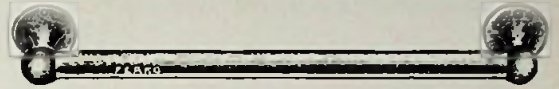


Fig. 379

Length Between Posts Inches	Diameter of Bar			
	1 Inch		1½ 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 AND NICKEL SILVER

Lies flush with top of rail when closed. Strong spring catch on bottom to hold rail end in position. A very practical fitting.

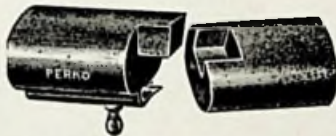


Fig. 123

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	Nickel Silver Per Set
1	\$3.50	\$4.00	\$4.75	\$4.00
2	3.50	4.00	4.75	4.00

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.
1¾	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 5/8		1 5/8	5
3/4	2 1/8	1 1/8	1 3/4	7
7/8	2 3/8	1 1/8	1 7/8	8
1	2 1/2	1 1/8	2	8 1/2
1 1/4	2 3/4	1 1/8	2 1/8	11
1 1/2	3	1 1/8	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
3/4	1.00	1.25	2.25	1.25
7/8	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

1/8 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 7/8 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.
3/4	2	1 1/8	1 1/2	4 1/2 oz.
7/8	2 1/8	1 1/8	1 5/8	4 3/4 oz.
1	2 3/8	1 1/8	1 3/4	6 oz.
1 1/4	2 5/8	1 1/8	2	10 oz.
1 1/2	3 1/8	1 1/8	2 3/8	1 lb.
1 3/4	3 3/8	1 1/8	3	1 1/8 lbs.
2	3 7/8	1 1/8	3 3/4	1 7/8 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		.70	.95	1.60	.95
3/4	.25	.75	1.00	1.75	1.00
7/8		.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		2.25	2.60	3.75	2.60
2		3.00	3.50	4.50	3.50

1/8 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 3/4 inch glass, and are tilted at a 50 degree angle.

V TYPE

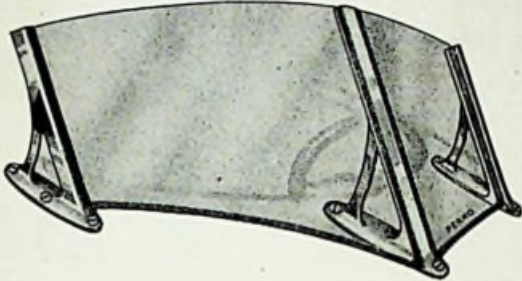


Fig. 665

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 3/4	\$9.00	\$11.50	\$11.50	\$13.00

Height of brackets is figured perpendicular to bases. Prices do not include glass.

STRAIGHT TYPE

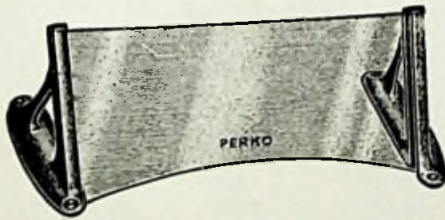


Fig. 666

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	\$6.00	\$7.00	\$ 9.00
..2	9	7.00	8.25	10.00

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	\$6.00	\$7.00	\$ 9.00
4	10	8.00	9.50	11.50

Aluminum Racing Fin

Cast silicon aluminum 10% alloy (salt water resisting). Heavy rubber gasket, 4 brass machine screws and wing nuts.

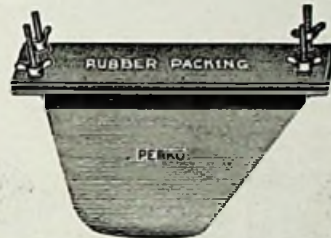


Fig. 493

Size Blade Inches	Size Base Inches	Weight Lbs.
7 3/4 x 5 x 3 1/2	1 3/4 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 3/4	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 1/4	2 x 9	14	\$1.75

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	Spindle Hub Inches
1	\$3.00	3 x 2x 1/2	4 1/8 x 1 1/8	1 1/2	1 1/8
2	3.80	3 1/2 x 3 x 1/2	5 x 3/4	2 1/4	1 1/8

Mortise Lock Sets

CAST BRONZE—POLISHED

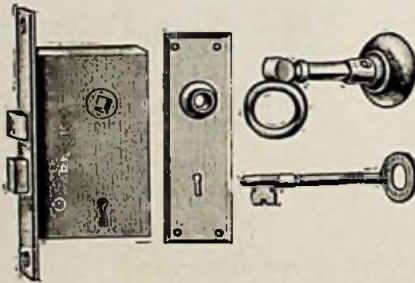


Fig. 945

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

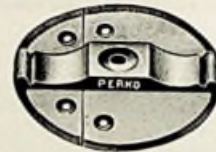


Fig. 948

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 1/8

Cupboard Turns

CAST BRASS—POLISHED

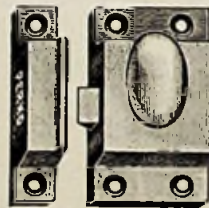


Fig. 949

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 1/8 x 1 3/8



Boston Hasp Hinges

GALVANIZED MALLEABLE IRON AND BRONZE

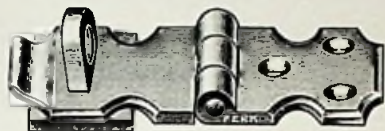


Fig. 954

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

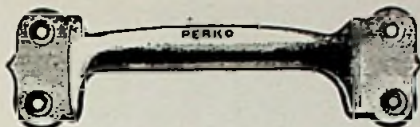


Fig. 775

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

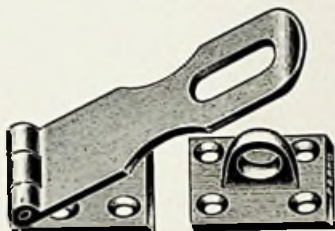


Fig. 955

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 3/4	1 3/4 x 2 1/2	2 x 2 3/4
Price, Each	\$.50	\$.63	\$.85	\$1.00

Cabin Door Hooks

CAST BRASS—POLISHED

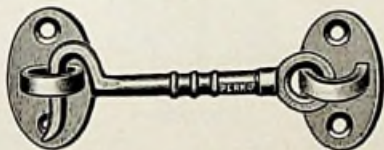


Fig. 956

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

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	$\frac{1}{8}$
6	.60	.80	1.25	1.85	2.75	$\frac{3}{8}$
8	.95	1.25	1.85	2.60	3.60	$\frac{1}{2}$
10	1.20					$1\frac{1}{8}$
12	1.70					$1\frac{3}{8}$

Port Hinges

GALVANIZED MALLEABLE IRON AND BRONZE
BRASS PINS

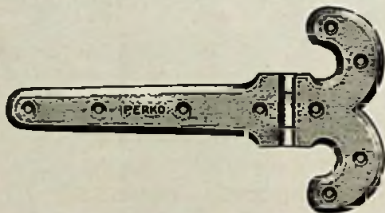


Fig. 109

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	$\frac{3}{8}$
8	1.30	1.60	2.25	3.00	4.25	$1\frac{1}{2}$
10	2.00					2
12	2.60					$2\frac{3}{8}$

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
$1\frac{1}{2} \times 1\frac{1}{4}$	\$ 4.80	3 x $1\frac{1}{2}$	\$13.25
$1\frac{1}{2} \times 1\frac{1}{2}$	5.04	3 x 2	13.44
$1\frac{3}{4} \times 1\frac{1}{4}$	5.04	3 x $2\frac{1}{4}$	15.36
$1\frac{3}{4} \times 1\frac{1}{2}$	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	$3\frac{1}{2} \times 2\frac{1}{2}$	20.00
2 x $1\frac{3}{4}$	7.44	$3\frac{1}{2} \times 3$	21.60
2 x 2	7.92	$3\frac{1}{2} \times 3\frac{1}{2}$	24.00
$2\frac{1}{2} \times 1\frac{1}{2}$	9.36	4 x 3	28.16
$2\frac{1}{2} \times 1\frac{3}{4}$	10.56	4 x $3\frac{1}{2}$	31.44
$2\frac{1}{2} \times 2$	10.80	4 x 4	33.60
$2\frac{1}{2} \times 2\frac{1}{2}$	12.00		

Other Sizes Furnished to Order

Loose Pin Butt Hinges

CAST BRASS—POLISHED
BRASS PINS

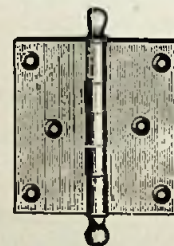


Fig. 953

Size Open Inches	Size Screw Inches	Per Pair	Size Open Inches	Size Screw Inches	Per Pair
2 x $1\frac{1}{2}$	$\frac{3}{4} \times 6$	\$1.15	3 x 3	1 x 8	\$2.30
2 x 2	$\frac{3}{4} \times 7$	1.40	$3\frac{1}{2} \times 3$	1 x 11	3.00
$2\frac{1}{2} \times 2$	$\frac{7}{8} \times 7$	1.65	$3\frac{1}{2} \times 3\frac{1}{2}$	1 x 11	3.30
$2\frac{1}{2} \times 2\frac{1}{2}$	$\frac{7}{8} \times 7$	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

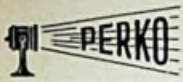
Skylight or Hatch Hinges

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



Sash Hinges

CAST BRONZE

A set consists of two brackets with adjusting screws and two hinge plates, right and left hand.

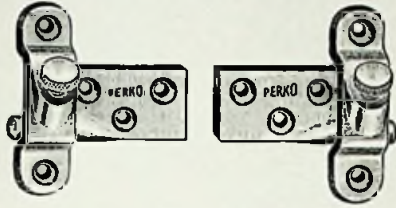


Fig. 418

No.	Size of Hinge Plates Inches	Size of Bracket Base Inches	Weight Per Set Ounces	Length of Pin Inches
1	1 7/16 x 7/8	2 1/2 x 1 1/16	6	7/8
2	1 7/16 x 7/8	3 1/4 x 1 1/16	7	7/8
	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

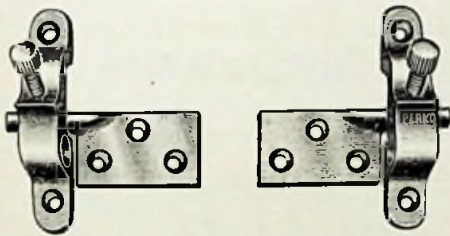


Fig. 960

No.	Size of Hinge Plates Inches	Size of Bracket Base Inches	Weight Per Set Ounces	Length of Pin Inches
1	1 7/16 x 7/8	2 3/4 x 1/2	7	3/8
	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	Nickel Silver Each	Length Inches	Gauge
1 7/16	\$1.50	\$1.75	\$2.00	\$2.00	60	.045
1 1/4	1.65	1.90	2.25	2.25	60	.040
1 1/2	1.75	2.00	2.50	2.50	60	.040
1 1/2	2.10	2.35	3.00	3.00	72	.040

Special widths and lengths made to order. Price on application.

Sash Anti Rattlers

CAST BRONZE—POLISHED

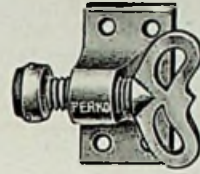


Fig. 839

Furnished with leather tip to prevent defacing of wood work. Size of base 1" x 1 3/4".

Price per dozen \$15.00

Sash Lifts

CAST BRONZE

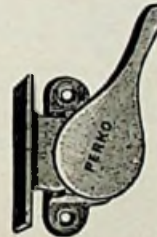


Fig. 776

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



Size—1 1/4 x 2 3/8 inches

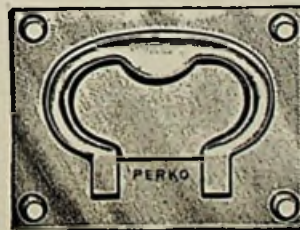
Fig. 777

Price Each \$0.50

Please specify left or right hand

Flush Hatch Lifting Handle

CAST BRONZE



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

	Price Each
Polished Bronze	\$1.50
Nickel Plated	2.00
Chromium Plated	3.00

Fig. 774

Hatch Hinges

CAST BRONZE

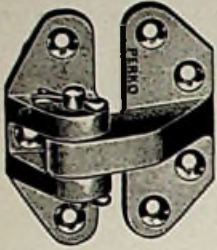


Fig. 773

A new type hatch hinge that will allow hatch cover to be laid flat on deck.

Size—2½ x 3¼

	Price Per Pair
Polished Bronze	\$4.00
Nickel Plated . . .	4.50
Chromium Plated	6.00

Skylight Fastener

CAST BRONZE

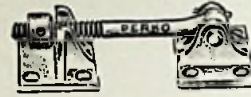


Fig. 770

Size Inches	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
¾ x 4	\$2.00	\$2.50	\$3.50

Skylight Hinge

CAST BRONZE—POLISHED



Fig. 771

Used with gutter made from ½ section of 3 inch brass tubing, cut shown one half pair, width of flange, 5 inches.

Price per Pair \$5.25

Hatch Hinge

CAST BRONZE AND NICKEL SILVER

With an invisible 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 Open Inches	Length Closed Inches	Width Inches	Weight Per Pair Ounces
4¾	2½	1¾	12

Polished Bronze Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair	Nickel Silver Per Pair
\$2.50	\$2.75	\$3.60	\$2.75

Skylight Raisers

ALL POLISHED BRASS

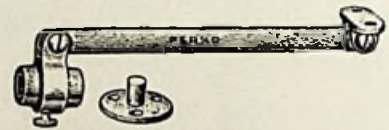


Fig. 772

Consists of two raisers and two tubing supports, tubing not furnished.

No.	Length of Arm Inches	For Tubing Diameter Inches	Price Per Set
1	9¼	5/8	\$8.50
2	9¼	¾	8.50
3	9¼	7/8	8.50

Hatch Bracket

POLISHED BRASS

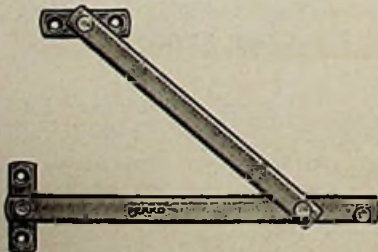


Fig. 406

Length Closed Inches	Polished Brass Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair	Size Brackets Inches	Weight Per Pair Pounds
10	\$3.00	\$4.50	\$6.00	2¾ x ¾	2

Skylight Quadrants

CAST BRONZE AND NICKEL SILVER



Fig. 449

No.	Length Inches	Polished Bronze Per pair	Nickel Plated Per pair	Nickel Silver Per pair	Chromium Plated 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.

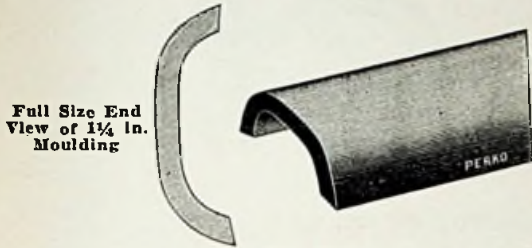


Fig. 227

Outside Width Inches	Projection Inches	Weight Per Foot Pounds	Polished Brass Per Foot	Nickel Silver Per Foot	Chromium Plated Per Foot
5/8	3/2	1/4	\$.22	\$.35	\$.42
1	7/8	1/2	.40	.60	.65
1 1/4	3/4	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.

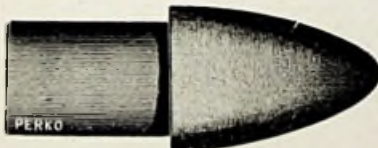


Fig. 228

For Moulding Inches	Length Overall Inches	Weight Each Ounces	Polished Bronze Each	Nickel Silver Each	Chromium Plated Each
1	2 1/2	1 1/2	\$.35	\$.40	\$.55
1 1/4	3	2 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	Plain Bronze Each	Nickel Silver Each
1	3/4	2 1/2		
1 1/4	1	3		
For Moulding Inches	Plain Bronze Each	Nickel Silver Each		
1	\$.20	\$.25		
1 1/4	.30	.35		

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.

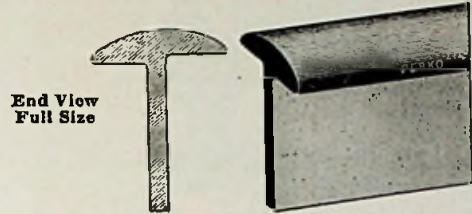


Fig. 232

Width Surface Inches	Depth Inches	Weight Per Foot Ounces	Polished Brass Per Foot	Nickel Silver Per Foot	Chromium Plated Per Foot
3/4	1 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 3/4	\$.21	\$.35
1 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.

Rubber Rub Strake

HALF ROUND—MAHOGANY COLOR



Rub Strake—Fig. 823



Plugs—Fig. 824

Composed of very high grade salt water resisting rubber, exceptionally strong and durable, yet highly resilient. Fastened to hull with wood screws spaced four to six inches apart. For a perfect job screw holes should be countersunk for inserting rubber plug over screw head. Cut plugs to proper length and finish off smooth with fine sand paper.

Width	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
Price	\$3.00	\$5.20	\$7.00	\$10.10	\$18.70	\$25.35	\$28.60

Diameter, Inches	1/4	3/8	1/2
Price	\$.50	\$.75	\$ 1.15

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
3/16	\$.28				7/8	1/8	1/4	7
1/4	.28	\$.25	\$.50	\$.70	1 1/8	1/2	5/16	12
5/16	.30	.28	.65	.85	1 1/4	5/8	3/8	21
3/8	.35	.33	.80	1.00	1 5/8	3/4	7/16	32
7/16	.45	.40	1.00	1.35	1 3/4	7/8	1/2	49
1/2	.50	.45	1.25	1.75	1 7/8	1	5/8	73
5/8	.80	.70	2.25	2.90	2 1/2	1 1/8	3/4	151
3/4	.90	.75			3	1 1/4	7/8	226
7/8	1.40	1.10			3 1/4	1 5/8	1	340
1	1.80	1.45			3 3/4	1 3/4	1 1/8	495
1 1/8	2.60	2.10			4 1/4	1 7/8	1 1/4	691
1 1/4	3.20	2.60			4 1/2	2	1 3/8	899
1 3/8	4.40	3.60			5 1/4	2 1/4	1 1/2	1219
1 1/2	5.25	4.20			5 3/4	2 3/8	1 5/8	1595
1 3/4	10.00	8.00			7	2 1/2	2	2750
2	15.00	12.00			7 3/4	3 3/8	2 1/4	3900
2 1/4	40.00	34.00			8 3/4	3 7/8	2 1/2	5650
2 1/2	49.00	43.00			10	4 1/8	2 3/4	8350

Bronze Shackles Are Only Furnished with Screw Pins

CHAIN SHACKLES

DROP FORGED STEEL

SCREW PIN

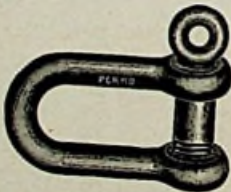


Fig. 338

ROUND PIN

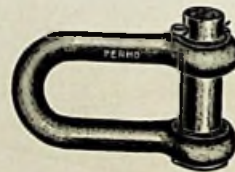


Fig. 339

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	5/16	12
5/16	.30	.28	1	5/8	3/8	18
3/8	.35	.33	1 1/4	3/4	7/16	28
7/16	.45	.40	1 1/2	7/8	1/2	44
1/2	.50	.45	1 5/8	1	5/8	68
5/8	.80	.70	2	1 1/8	3/4	130
3/4	.90	.75	2 1/8	1 1/4	7/8	201
7/8	1.40	1.10	2 3/8	1 5/8	1	288
1	1.80	1.45	3 1/4	1 3/4	1 1/8	441
1 1/8	2.60	2.10	3 1/2	1 7/8	1 1/4	625
1 1/4	3.20	2.60	3 5/8	2	1 3/8	800
1 3/8	4.40	3.60	4 1/2	2 1/4	1 1/2	1110
1 1/2	5.25	4.20	5	2 3/8	1 5/8	1372
1 3/4	10.00	8.00	5 7/8	2 7/8	2	2600
2	15.00	12.00	6 3/4	3 3/8	2 1/4	3600
2 1/4	40.00	34.00	7 1/4	3 7/8	2 1/2	5000
2 1/2	49.00	43.00	8 1/4	4 1/8	2 3/4	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 1/8	1 1/8	5/8	1 1/2	2
1/4	4.40	1 1/2	1 1/8	1 1/8	5/8	1 3/4	2 1/2
3/8	4.40	1 1/2	1 1/8	1 1/8	5/8	1 3/4	3 1/2
1/2	5.25	2 1/8	1 3/8	1 1/8	1 1/8	1 3/4	5 5/8
5/8	6.00	2 3/8	1 3/8	1 1/2	1	1 3/4	7 1/2
3/4	7.00	2 3/8	1 3/4	1 3/8	1 1/8	1 3/4	9 1/4
7/8	8.00	2 3/4	1 3/4	1 3/4	1 1/8	1 3/4	13 1/4
1	11.00	3 3/8	2 1/2	2 1/4	1 3/8	1 3/4	22 1/2
1 1/8	13.00	3 1/2	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 1/2	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 5/8	1 1/8	103
2 1/4	120.00	6 7/8	4 3/4	4	2 7/8	1 1/8	163
2 1/2	160.00	7 1/2	5 1/4	4 3/4	3 1/8	1 1/2	255
2 3/4	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 Thimbles

GALVANIZED DROP FORGED STEEL

EXTRA LARGE PATTERN



Fig. 467

For Size Rope Inches	Price Per 100	Dimensions in Inches					Est. Wt. Per 100 in Lbs.
		A	B	C	D	E	
3/8	\$13.00	2 3/8	1 3/8	1 3/4	1 1/8	1 1/2	9 1/2
1/2	16.00	3 1/8	2 1/2	2 1/8	1 1/8	1 1/2	16 1/2
5/8	19.00	4 1/8	2 3/8	2 1/8	1 3/8	1 1/2	36
3/4	35.00	5 1/8	3 3/8	2 3/8	1 3/8	1 1/2	49 1/2
7/8	40.00	5 1/4	3 3/4	2 3/8	1 1/2	1 1/2	49 1/2
1	50.00	5 5/8	4 1/4	3 1/8	2 1/8	1 1/8	76
1 1/8	65.00	6 1/4	4 1/2	3 1/2	2 1/2	1 1/8	110
1 1/4	80.00	6 1/4	4 1/2	3 3/8	2 1/2	1 1/4	122
1 1/2	200.00	7 1/2	5 1/8	4 1/2	3 1/8	1 1/2	191
1 3/4	250.00	9	5 1/4	5 3/4	3 1/2	1 3/4	335
2	325.00	10 1/2	6 3/4	6 1/8	4 1/4	2 1/8	560
2 1/4	450.00	11 1/2	7 1/2	7 3/4	5	2 1/4	700
2 1/2	600.00	12 1/2	8 1/2	8 1/4	5 1/2	2 3/8	780

A—Overall Length; B—Overall Width; C—Length Inside; D—Width Inside; E—Width of Score.

Manila Rope Thimbles

GALVANIZED DROP FORGED STEEL



Fig. 468

For Dia. Rope Inches	Galvanized Per 100	Self Colored Per 100	I. D. Hole	O. D. Edge to Edge	Weight Per 100 in Lbs.
3/8	\$ 5.00	\$ 4.80	3/8	3/4	1 1/2
1/2	5.00	4.80	1/2	7/8	2 1/4
3/4	5.50	5.25	5/8	1	3 1/8
1	6.25	5.75	3/4	1 1/4	6 1/2
5/8	6.75	6.25	1 1/8	1 1/2	9 3/8
3/4	9.50	8.50	1 1/8	1 3/4	16 1/2
7/8	10.50	9.00	1 1/8	2	20 1/4
1	18.50	16.00	1 1/4	2 1/4	33 3/4
1 1/8	19.50	16.50	1 3/8	2 1/2	39 1/2
1 1/4	20.00	16.50	1 1/2	2 3/4	52
1 3/8	24.50	20.00	1 3/4	3	62
1 1/2	50.00	38.00	2	3 1/2	112
1 3/4	75.00	60.00	2 3/8	4	146
2	95.00	80.00	2 3/4	4 1/2	206
2 1/2	280.00	230.00	3 1/4	6	656

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.
5/8		.50		1 1/2 oz.
3/4	\$.45	.55	3/8	3 oz.
7/8		.75		3 oz.
1	.60	.85	1/2	5 oz.
1 1/8		1.10		7 1/2 oz.
1 1/4	.80	1.50	1/2	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		3/8	1 3/4 lbs.
2 1/4	1.70		3/4	2 lbs.
2 1/2	1.90		7/8	2 3/8 lbs.
2 3/4	2.10		1	3 3/4 lbs.
3	2.60		1	4 3/8 lbs.
2	1.80		3/4	2 1/8 lbs.
2 1/4	2.10		1 1/8	2 3/8 lbs.
2 1/2	2.40		1 1/4	3 1/8 lbs.
2 3/4	2.80		1	4 3/8 lbs.
3	3.50		1 1/8	6 lbs.
3 1/2	4.50		1 1/4	7 3/8 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 & Hook		Jaw & Eye		Jaw & Jaw		Diameter & Takeup	Eye & Eye Hook & Hook		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	\$.50												
* 1/4 x 4	.50	\$.42	\$.58	\$.50	\$.66	\$.55	* 1/4 x 12	\$ 7.25	\$ 6.00	\$ 9.00	\$ 7.50	\$ 11.00	\$ 9.00
* 3/8 x 4 1/2	.55	.45	.64	.54	.72	.60	18	9.00	7.50	11.00	9.00	13.00	10.50
* 3/8 x 6	.72	.60	.84	.70	.96	.80	24	11.50	9.50	13.00	11.00	15.00	12.50
* 1/2 x 6	.96	.80	1.10	.92	1.25	1.05	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	* 1/2 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	* 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.



Pipe Turnbuckles

GALVANIZED DROP FORGED STEEL

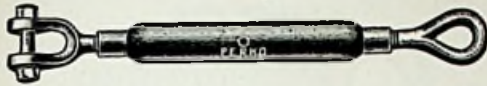


Fig. 398

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
3/8	1.00	1.10	1.20	5 3/4	62 1/2
1/2	1.15	1.25	1.35	6 1/2	102
5/8	1.55	1.75	1.95	8	178
3/4	2.20	2.45	2.70	10 3/4	369
7/8	3.00	3.35	3.70	12	500
1	4.00	4.50	5.00	15	775
1 1/4	5.00	5.60	6.20	15	1025
1 1/2	8.00	9.00	10.00	16	2050
1 3/4	15.00	16.50	18.00	21	3200
2	25.00	28.00	31.00	21	4500
2 1/4	40.00	43.00	47.00	24	7500
2 1/2	65.00	70.00	75.00	24	
2 3/4	80.00	90.00	100.00		

For one check nut add 5% to list.
For two check nuts add 10% to list.

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. Each	S. C. Each	Galv. Each	S. C. Each	Galv. Each	S. C. Each
1/4 x 3 3/4	\$.50	\$.42	\$.58	\$.50	\$.66	\$.55
3/8 x 4 1/4	.55	.45	.64	.54	.72	.60
1/2 x 4 3/4	.72	.60	.84	.70	.96	.80
3/4 x 6	.96	.80	1.10	.92	1.25	1.05
1/2 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	Pol. Brass Each
1	1/8	3/8	2 1/8	1 1/8	\$.15	
2	3/16	1/2	3 1/8	1 3/8	.20	
3	1/4	3/4	3 3/8	1 5/8	.25	\$.35
4	5/16	1 1/4	5 1/8	2 1/8	.30	.55
5	3/8	1 3/4	6	2 3/8	.40	.75

Swivels

WELDLESS DROP FORGED STEEL



Fig. 622

Size Inches	Galv. Each	Self Colored Each	Overall Length Inches	Width Inside Inches	Est. Weight Each in Lbs.	Est. Ult. T. S. Tons
1/4	\$.75	\$.60	3 1/4	3/4	1 1/8	2 1/2
3/8	.90	.70	4 1/8	1	1 1/8	4 1/4
1/2	1.00	.80	5	1 1/4	3/8	5 1/2
5/8	1.50	1.20	6	1 1/2	1 1/4	9 1/2
3/4	2.40	2.00	7 1/2	1 3/4	2 1/4	14 3/4
7/8	3.00	2.50	9	2	3 1/2	18 1/2
1	3.60	3.00	9 1/2	2 1/4	5 3/8	22 1/4
1 1/8	4.80	4.00	11 1/2	2 1/2	8 3/4	27 1/2
1 1/4	7.00	6.00	12 1/2	2 3/4	12	35
1 1/2	11.00	9.00	14	3	16	37 1/2

Swivels with Jaw End

DROP FORGED STEEL



Fig. 623

Size Inches	Galv. Each	Self Colored Each	Overall Length Inches	Width Between Jaws Inches	Size of Bow in Clear Inches	Est. Wt. Each in Lbs.
1/4	\$1.00	\$.85	3 1/4	1/2	3/4 x 3/4	3 1/2
3/8	1.10	.95	4 1/8	1/2	1 x 1	4 1/2
1/2	1.20	1.10	4 1/2	3/8	1 1/4 x 1	5 1/2
5/8	1.70	1.50	5 3/8	3/4	1 1/2 x 1 1/4	7 1/2
3/4	2.80	2.50	7	1	1 3/4 x 1 1/2	11 1/2
7/8	3.20	2.80	8	1 1/8	2 x 1 3/4	14 1/2
1	4.00	3.50	9	1 1/4	2 1/4 x 2	18 1/2
1 1/8	6.00	5.25	11	1 1/2	2 1/2 x 2 1/2	24 1/2
1 1/4	8.00	7.00	12	1 5/8	2 3/4 x 2 1/2	30 1/2
1 1/2	12.00	10.00	13 1/2	1 3/4	3 x 2 3/4	37 1/2

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 5/8	41

Screw Eye Bolts

WELDLESS DROP FORGED STEEL
LARGE EYE



Fig. 500

Size Inches	Galv. Each	Self Colored Each	For Each Additional Inch or Fraction Add	Inside Diam. Eye Inches	Weight Per 100 in Lbs.
1/4 x 2	.10	.09	.03	1/2	6
1/4 x 2 1/4	.12	.11	.04	5/8	12 3/4
3/8 x 2 1/2	.14	.12	.04	3/4	17
1/2 x 3 1/4	.21	.19	.05	1	43
3/8 x 4	.33	.30	.06	1 1/4	92
3/4 x 4 1/2	.60	.55	.08	1 1/2	146
7/8 x 5	.85	.80	.09	1 3/4	221
1 x 6	1.00	.90	.11	2	325
1 1/4 x 8	1.90	1.70	.19	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	Self Colored Each	Pol. Bronze Each	For Each Additional Inch or Fraction Add	Inside Diam. Eye Inches	Weight Per 100 in Lbs.
1/4 x 2	.13	.11	.35	.03	1/2	4 1/2
1/4 x 2 1/4	.16	.14	.40	.04	5/8	9
3/8 x 2 1/2	.19	.17	.55	.04	3/4	17
1/2 x 3 1/4	.26	.25	.75	.05	1	33
3/8 x 4	.48	.43	1.25	.06	1 1/4	70
3/4 x 4 1/2	.85	.75		.08	1 1/2	117
7/8 x 5	1.30	1.15		.09	1 3/4	194
1 x 6	1.50	1.30		.11	2	288
1 1/4 x 8	2.80	2.50		.19	2 1/2	500

Sizes are: 1st, Diameter Screw.
2nd, Length under Shoulder.

Nut Eye Bolts

WELDLESS DROP FORGED STEEL
LARGE EYE



Fig. 522

Size Inches	Galvanized Each	Self Colored Each	Inside Diam. Eye Inches	Weight Per 100 in Lbs.
1/4 x 2	.14	.13	1/2	8
1/4 x 2 1/4	.16	.14	5/8	14 1/2
3/8 x 2 1/2	.18	.16	3/4	22
1/2 x 3 1/4	.28	.25	1	54
3/8 x 4	.45	.40	1 1/4	100
3/4 x 4 1/2	.75	.70	1 1/2	158
7/8 x 5	1.15	1.00	1 3/4	250
1 x 6	1.50	1.35	2	375
1 1/4 x 8	2.40	2.20	2 1/2	665

EXTRA LONG

Size Inches	Galvanized Each	Self Colored Each	For Each Additional Inch or Fraction Add	Inside Diam. Eye Inches	Weight Per 100 in Lbs.
1/4 x 4	.18	.16	.03	1/2	10 1/2
1/4 x 4 1/4	.22	.19	.04	5/8	18
3/8 x 4 1/2	.24	.21	.04	3/4	27
1/2 x 6	.38	.35	.05	1	65 1/2
3/8 x 6	.60	.55	.06	1 1/4	117
3/4 x 6 1/2	.90	.85	.08	1 1/2	179
7/8 x 8	1.40	1.25	.09	1 3/4	304
1 x 9	1.75	1.60	.11	2	444
1 1/4 x 11	3.00	2.80	.19	2 1/2	800

Sizes are: 1st, Diameter Bolt.
2nd, Length under Eye.

Shoulder Nut Eye Bolts

WELDLESS DROP FORGED STEEL AND BRONZE
LARGE EYE

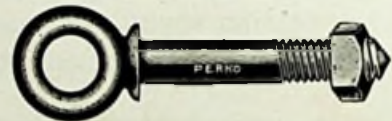


Fig. 523

Size Inches	Galv. Each	Self Colored Each	Polished Bronze Each	Inside Diam. Eye Inches	Weight Per 100 in Lbs.
1/4 x 2	.18	.16	.35	1/2	6 1/4
1/4 x 2 1/4	.21	.19	.40	5/8	12
3/8 x 2 1/2	.23	.21	.55	3/4	20 1/2
1/2 x 3 1/4	.35	.30	.75	1	42
3/8 x 4	.60	.55	1.25	1 1/4	83
3/4 x 4 1/2	1.00	.90		1 1/2	139
7/8 x 5	1.45	1.25		1 3/4	229
1 x 6	1.90	1.65		2	350
1 1/4 x 8	3.10	2.80		2 1/2	680

EXTRA LONG

Size Inches	Galv. Each	Self Colored Each	For Each Additional Inch or Fraction Add	Inside Diam. Eye Inches	Weight Per 100 in Lbs.
1/4 x 4	.24	.22	.03	1/2	9
1/4 x 4 1/4	.28	.24	.04	5/8	17
3/8 x 4 1/2	.30	.28	.04	3/4	27
1/2 x 6	.43	.38	.05	1	53
3/8 x 6	.70	.60	.06	1 1/4	99
3/4 x 6 1/2	1.15	1.00	.08	1 1/2	166
7/8 x 8	1.70	1.50	.09	1 3/4	275
1 x 9	2.20	2.00	.11	2	408
1 1/4 x 11	3.70	3.30	.19	2 1/2	717

Sizes are: 1st, Diameter Bolt.
2nd, Length under Shoulder.

BRONZE BOLTS CAN BE FURNISHED up to 6 inches long in any diameter 1/4 to 5/8 inch inclusive.



Screw Ring Bolts

DROP FORGED STEEL



Fig. 618

Size Inches	Galv. Each	Self Colored Each	Weight Per 100 in Lbs.
1/4x2	\$.25	\$.23	14
1/4x2 1/4	.30	.28	25
3/8x2 1/2	.35	.33	40
1/2x3 1/4	.45	.40	90
5/8x4	.75	.65	167
3/4x4 1/2	1.15	1.05	254
7/8x5	1.75	1.60	408
1 x6	2.60	2.30	596
1 1/4x8	5.25	4.50	1125

Sizes are: 1st, Diameter Screw;
2nd, Length under Eye.

Shoulder Screw Ring Bolts

DROP FORGED STEEL AND CAST BRONZE



Fig. 619

Size Inches	Galv. Each	Self Colored Each	Polished Bronze Each	Weight Per 100 in Lbs.
1/4x2	\$.30	\$.28	\$1.10	14
1/4x2 1/4	.40	.38	1.40	24
3/8x2 1/2	.45	.43	1.80	39
1/2x3 1/4	.60	.55	3.25	82
5/8x4	.85	.75	4.25	154
3/4x4 1/2	1.35	1.25		256
7/8x5	2.00	1.90		380
1 x6	3.00	2.70		550
1 1/4x8	6.00	5.25		1100

Sizes are: 1st, Diameter Screw;
2nd, Length under Shoulder.

Nut Ring Bolts

DROP FORGED STEEL

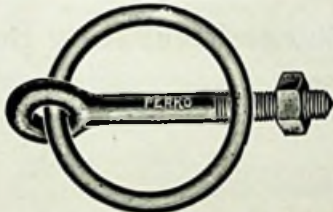


Fig. 620

Size Inches	Galv. Each	Self Colored Each	Weight Per 100 in Lbs.
1/4x2	\$.35	\$.33	15
1/4x2 1/4	.38	.35	27
3/8x2 1/2	.45	.43	44
1/2x3 1/4	.60	.55	101
5/8x4	.85	.75	176
3/4x4 1/2	1.35	1.25	292
7/8x5	2.00	1.85	442
1 x6	2.90	2.60	633
1 1/4x8	5.75	5.00	1275

EXTRA LONG

Size Inches	Galv. Each	Self Colored Each	Weight Per 100 in Lbs.
1/4x4	\$.38	\$.35	19
1/4x4 1/4	.43	.40	29
3/8x4 1/2	.50	.48	50
1/2x6	.65	.60	108
5/8x6	.95	.85	190
3/4x6 1/2	1.50	1.40	316
7/8x8	2.20	2.00	492
1 x9	3.10	2.85	708
1 1/4x11	6.25	5.50	1383

Sizes are: 1st, Diameter Bolt;
2nd, Length under Eye.

Shoulder Nut Ring Bolts

DROP FORGED STEEL AND CAST BRONZE

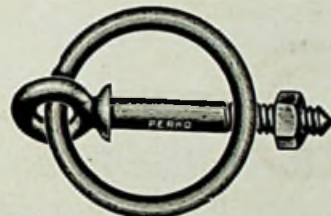


Fig. 621

Size Inches	Galv. Each	Self Colored Each	Polished Bronze Each	Weight Per 100 in Lbs.
1/4x2	\$.38	\$.35	\$1.10	17
1/4x2 1/4	.45	.43	1.40	28
3/8x2 1/2	.55	.50	1.80	42
1/2x3 1/4	.70	.65	3.25	88 3/4
5/8x4	.95	.85	4.25	172
3/4x4 1/2	1.50	1.40		275
7/8x5	2.20	2.00		430
1 x6	3.10	2.85		640
1 1/4x8	6.25	5.50		1300

EXTRA LONG

Size Inches	Galv. Each	Self Colored Each	Weight Per 100 in Lbs.
1/4x4	\$.40	\$.38	19 1/2
1/4x4 1/4	.50	.48	32 1/2
3/8x4 1/2	.60	.55	50
1/2x6	.75	.70	102
5/8x6	1.05	.95	165
3/4x6 1/2	1.65	1.50	294
7/8x8	2.40	2.20	475
1 x9	3.40	3.10	725
1 1/4x11	6.75	6.00	1375

Sizes are: 1st, Diameter Bolt.
2nd, Length under Shoulder.

Any length made to order (Weldless). For lengths between the two listed lengths, use extra long list price.



Rivet Eye Bolts

WELDLESS DROP FORGED STEEL
LARGE EYE

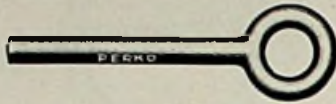


Fig. 914

Shoulder Rivet Eye Bolts

WELDLESS DROP FORGED STEEL
LARGE EYE



Fig. 916

Size Inches	Galv. Each	Self-Colored Each	Inside Diam. Eye Inches	Weight Per 100 in Lbs.
1/4 x 4	\$.12	\$.10	1/2	9 3/4
5/16 x 4 1/4	.14	.12	5/8	15 1/4
3/8 x 4 1/2	.16	.14	3/4	25
1/2 x 6	.25	.23	1	61
5/8 x 6	.40	.36	1 1/4	95
3/4 x 6 1/2	.70	.65	1 1/2	145
7/8 x 8	1.10	1.00	1 3/4	255
1 x 9	1.25	1.15	2	370
1 1/4 x 11	2.30	2.10	2 1/2	709

Size Inches	Galv. Each	Self-Colored Each	Inside Diam. Eye Inches	Weight Per 100 in Lbs.
1/4 x 4	\$.17	\$.15	1/2	10 1/2
5/16 x 4 1/4	.21	.19	5/8	16 1/2
3/8 x 4 1/2	.25	.22	3/4	25
1/2 x 6	.35	.30	1	68 1/2
5/8 x 6	.55	.50	1 1/4	95
3/4 x 6 1/2	.95	.85	1 1/2	165
7/8 x 8	1.50	1.35	1 3/4	231
1 x 9	1.70	1.50	2	380
1 1/4 x 11	3.10	2.90	2 1/2	750

Sizes are 1st, diameter shank; 2nd, length under eye.

Sizes are 1st, diameter shank; 2nd, length under shoulder.

Rivet Ring Bolts

WELDLESS DROP FORGED STEEL

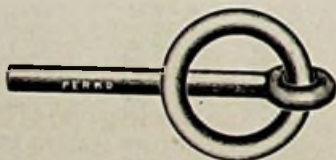


Fig. 915

Shoulder Rivet Ring Bolts

WELDLESS DROP FORGED STEEL

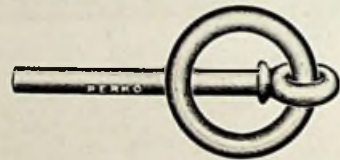


Fig. 917

Size Inches	Galv. Each	Self-Colored Each	Inside Diam. Ring Inches	Weight Per 100 in Lbs.
1/4 x 4	\$.30	\$.28	1 3/4	19
5/16 x 4 1/4	.35	.33	2	31
3/8 x 4 1/2	.40	.38	2	45
1/2 x 6	.55	.50	2 1/2	113
5/8 x 6	.75	.70	2 3/4	183
3/4 x 6 1/2	1.25	1.15	3	279
7/8 x 8	1.85	1.70	3 1/4	432
1 x 9	2.70	2.40	3 3/4	645
1 1/4 x 11	5.50	4.70	5	1331

Size Inches	Galv. Each	Self-Colored Each	Inside Diam. Ring Inches	Weight Per 100 in Lbs.
1/4 x 4	\$.33	\$.30	1 3/4	19
5/16 x 4 1/4	.40	.38	2	32
3/8 x 4 1/2	.50	.45	2	47 1/2
1/2 x 6	.65	.60	2 1/2	113
5/8 x 6	.85	.75	2 3/4	200
3/4 x 6 1/2	1.35	1.25	3	293
7/8 x 8	2.00	1.90	3 1/4	462
1 x 9	3.00	2.70	3 3/4	670
1 1/4 x 11	6.00	5.25	5	1375

Sizes are 1st, diameter shank; 2nd, length under shoulder.

EXTRAS FOR SPECIAL LENGTHS

For each additional inch or fraction add to above prices.

Diam. Shank Inches	Extra Per Inch	Diam. Shank Inches	Extra Per Inch
1/4	\$.03	3/4	\$.08
5/16	.04	7/8	.09
3/8	.04	1	.11
1/2	.05	1 1/4	.19
5/8	.06		

Sizes are 1st, diameter shank; 2nd, length under eye.



Boat Scrapers
TRIANGULAR



Size Blade Inches 2	Per Dozen	Blades Only Per Dozen	Length Inches 6	Wt. Per Dozen in Pounds 2 1/2
	\$6.25	\$3.50		

Yacht Scrapers



Size Blade Inches 2 3/4	Per Dozen	Blades Only Per Dozen	Length Inches 9 1/2	Wt. Per Dozen in Pounds 5
	\$10.00	\$3.75		

Oval Boat Scrapers



Size Blade Inches 2x1 1/4	Per Dozen	Blades Only Per Dozen	Length Inches 6	Wt. Per Dozen in Pounds 2 3/4
	\$6.25	\$3.50		

Tree Scrapers



Size Blade Inches 4x1 1/8	Each	Blades Only Each	Handles Only Each	Length Inches 17	Weight Each Pounds 1 1/4
		\$1.00	\$.48			$ .70

Ship Scrapers
TEMPERED STEEL BLADES



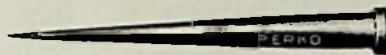
No.	Size Blade Inches	Blades Only Each	Handles Only Each	Length Inches	
	1	4 1/2 x 1/4	\$1.40		\$.80	17
2	4 1/2 x 1/8	1.30	.48	.80	17

Caulking Irons
MALLEABLE IRON



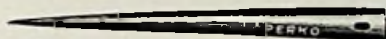
Size No.	Per Dozen	Thickness Inches	Length Inches	Width Blade Inches	Weight Per Doz. in Lbs.
					00	$7.00	1/32	5	2	3 3/4
0	7.00	1/16	5 3/8	2 1/2	4 1/2
1	7.25	1/8	5 3/4	2 1/4	5 1/4

Marlin Spikes
POLISHED STEEL
FOR WIRE ROPE



Length Inches	Per Dozen	Approx. Weight Per Dozen in Pounds
12	32.00	12 3/4
14	37.00	16 1/2
16	43.00	25
18	49.00	30

FOR MANILA ROPE



Length Inches	Per Dozen	Approx. Weight Per Dozen in Pounds
10	10.50	12
12	12.00	17
14	16.00	23 1/2
16	19.50	27
18	23.50	34 3/8

Hand Fids

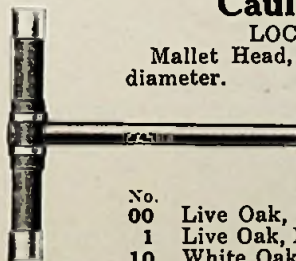


Fig. 923
HICKORY OR MAPLE
For use in splicing ropes and light flexible cables; has a rounded end for hand use; varnished finish.

No.	Per Dozen	Size Inches
	\$ 4.95	12x1 3/4
1	5.94	14x1 3/4
2	6.60	16x2
3	7.43	18x2
4	14.85	20x2 1/4
5	19.70	24x3

Caulking Mallets
LOCUST HANDLES

Mallet Head, 15 inches long; 1 1/8 inches diameter.



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 Dozen	Thickness Inches	Length Inches	Width Inches
1	12.00	1/8	6 1/8	2 1/2

Machine Bolts

HOT FORGED BRONZE
HEX HEAD—HEX NUT

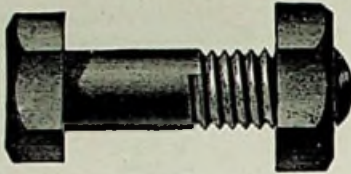


Fig. 726

PRICE PER HUNDRED

Length Under Head	Diameter of Bolts						
	¼"	5/16"	¾"	7/16"	½"	⅝"	¾"
1"	\$12.50*	\$14.50*	\$16.25*	—	—	\$21.90*	\$31.50
1 ¼"	12.50*	14.50*	16.65*	—	—	22.50	32.90
1 ½"	12.75*	14.90	17.05	—	—	23.10	33.80
2"	13.00*	15.30*	17.45*	\$20.50*	21.00	23.70	34.80
2 ¼"	13.25*	15.70*	17.85*	21.00*	21.50*	24.30*	35.80
2 ½"	13.50*	16.10*	18.25*	21.50*	22.00	24.90	36.80
3"	13.75*	16.50*	18.65*	22.00*	22.50*	25.50*	37.80*
3 ¼"	14.00*	16.90*	19.05*	22.50*	23.00	26.10	38.80
3 ½"	14.25*	17.30*	19.45*	23.00*	23.50*	26.70*	39.80
4"	14.50*	17.70*	19.85*	23.50*	24.00	27.30	40.80
4 ¼"	14.75*	18.10*	20.25*	24.00*	24.50*	27.90*	41.80*
4 ½"	15.00*	18.50*	20.65*	24.50*	25.00*	28.50*	42.80*
5"	15.50*	19.30*	21.45*	25.30*	25.50*	29.10*	43.80
5 ¼"	16.00*	20.10*	22.25*	26.50*	26.00*	29.70*	44.80*
5 ½"	16.50*	20.90*	23.05*	27.50*	26.50*	30.30*	45.80*
6"	17.00*	21.70*	23.85*	28.50*	27.00*	30.90*	46.80*
7"	18.00*	23.30*	25.45*	30.50*	27.50*	31.50*	47.80
8"	19.00*	24.90*	27.05*	32.50*	28.00*	32.10*	48.80*
9"	20.00*	26.50*	28.65*	34.50*	28.50*	32.70*	49.80*
10"	21.00*	28.10*	30.25*	36.50*	29.00*	33.30*	50.80*

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						
	¼"	5/16"	¾"	7/16"	½"	⅝"	¾"
1 ¼"	\$11.00*	\$12.00*	\$12.90*	—	—	—	—
2"	11.50*	12.50*	13.25*	\$16.20*	\$17.75*	\$26.00	\$38.50
2 ¼"	12.00*	13.16*	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 ¼"	13.00*	14.46*	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 ¼"	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 ¼"	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

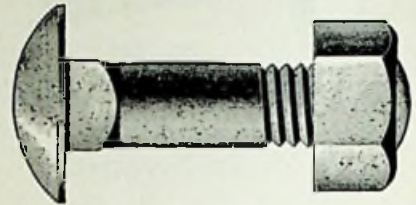


Fig. 728

PRICE PER HUNDRED

Length Under Head	Diameter of Bolts					
	¼"	5/16"	¾"	7/16"	½"	⅝"
1 ¼"	\$12.00*	\$14.50*	\$16.00	\$20.00	—	—
2"	12.50*	15.30*	16.80*	21.00*	\$23.00*	—
2 ¼"	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 ¼"	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 ¼"	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 ¼"	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					
	¼" & 5/16"	¾"	7/16"	½"	⅝"	¾"
2"	\$16.00*	—	—	—	—	—
2 ¼"	16.50*	\$17.00*	—	\$23.20*	—	—
3"	17.00*	17.00*	\$20.00*	23.20*	\$32.00*	\$44.00
3 ¼"	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



Brass Cap Screws



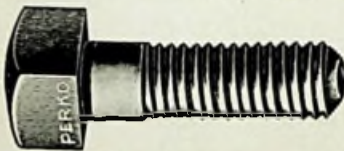
U. S. Standard Thread

Fig. 432

DIAMETER OF SCREW—PRICE PER HUNDRED

Length under Head Inches	DIAMETER OF SCREW—PRICE PER HUNDRED					
	¼ in.	⅝ in.	⅜ in.	½ in.	⅝ in.	¾ 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 Set Screws



U. S. Standard Thread
Cup Point

Fig. 433

DIAMETER OF SCREW—PRICE PER HUNDRED

Length under Head Inches	DIAMETER OF SCREW—PRICE PER HUNDRED					
	¼ in.	⅝ in.	⅜ in.	½ in.	⅝ in.	¾ in.
½	\$ 8.00	\$ 9.00	\$11.25	.....	.....	.....
⅝	9.00	10.00	12.50	\$13.25	\$13.75	.....
1	10.00	11.00	13.75	14.50	15.00	.....
1¼	11.00	12.00	15.00	15.75	16.25	\$17.50
1½	12.00	13.00	16.25	17.00	17.50	21.25
1¾	13.00	14.00	17.50	18.25	18.75	23.75
2	14.00	15.00	18.75	19.50	20.00	26.25
2½	.....	.....	21.75	22.50	23.00	31.25
3	.....	.....	24.75	25.50	26.00	36.25

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

Brass Stove Bolts

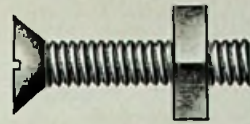


Fig. 709

Length Inches	PRICE PER 100 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

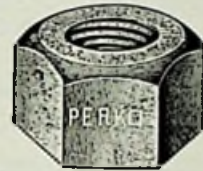


Fig. 730

Bolt Diameter	U. S. S. Standard			List Price Per Hundred	
	Threads Per Inch	Width (Inches)	Thickness (Inches)	Milled Semi-Finished	Cast
⅝	24	¾	⅝	\$1.60	.....
¾	20	½	¾	2.40	.....
⅞	18	⅞	⅞	3.20	.....
1	16	1	1	5.20	.....
1¼	14	1¼	1¼	7.20	.....
1½	13	1½	1½	9.60	\$5.00
1¾	12	1¾	1¾	15.00	7.00
2	11	2	2	17.00	8.75
2¼	10	2¼	2¼	27.00	12.00
2½	9	2½	2½	45.00	18.00
2¾	8	2¾	2¾	68.00	25.00
3	7	3	3	.....	37.50
3½	7	3½	3½	.....	50.00
4	6	4	4	.....	65.00
4½	6	4½	4½	.....	75.00
5	5½	5	5	.....	125.00
5½	5	5½	5½	.....	150.00
6	5	6	6	.....	175.00
6½	2	6½	6½	.....	250.00

Brass Washers



Fig. 731

Bolt Size	Outside Diameter	Inside Diameter	Thickness	Price Per Hundred	Bolt Size
⅝	½	.195	.040	\$.60	⅝
¾	⅞	⅞	.051	1.25	¾
⅞	1	1	.064	1.50	⅞
1	1¼	1¼	.081	2.50	1
1¼	1½	1½	.081	3.75	1¼
1½	1¾	1¾	.091	4.25	1½
1¾	2	2	.091	6.00	1¾
2	2¼	2¼	.102	9.00	2
2¼	2½	2½	.114	12.00	2¼
2½	2¾	2¾	.128	21.75	2½
3	3	3	.144	26.25	3



Connecting Links DROP FORGED STEEL

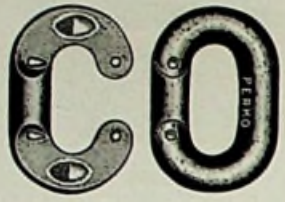


Fig. 319

Size Inches	Galv. Per Dozen	S. C. Per Dozen	Overall Dimensions Inches	Est. Wt. Per Doz. Pounds
1/8	\$1.50	\$1.15	1 1/8 x 3/4	3/8
1/4	1.50	1.15	1 1/2 x 1	3/4
3/8	1.65	1.20	1 7/8 x 1 1/8	1
1/2	2.00	1.50	2 1/8 x 1 3/8	2
5/8	2.40	1.80	2 3/8 x 1 1/2	3 1/8
3/4	2.90	2.00	2 5/8 x 1 3/4	4 1/2
7/8	3.90	2.70	3 x 1 7/8	6 5/8
1	4.50	3.20	3 1/8 x 2 1/8	9
1 1/8	5.50	4.10	3 1/2 x 2 1/8	11
1 1/4	6.00	4.50	3 7/8 x 2 1/2	14 1/4
1 1/2	9.25	6.75	4 1/2 x 2 7/8	20 1/4
1 3/8	14.00	11.00	5 x 3 1/4	29
1 1/2	16.50	13.50	5 5/8 x 3 1/2	40
1 3/4	21.50	17.50	6 1/8 x 4	53 1/2
1 7/8	27.00	24.50	6 3/4 x 4 3/4	75
1 1/2	34.00	30.00	7 1/4 x 5 1/8	103
1 5/8	41.00	37.00	8 x 5 1/2	131
1 7/8	92.00	59.00	9 x 6 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
1/8	\$.40	1 x 1/2	3/8	\$1.35	1 1/8 x 1 1/8
1/4	.47	1 1/2 x 1/2	1/2	1.85	2 x 7/8
3/8	.94	1 1/2 x 7/8		2.10	2 x 1

Exhaust Pipe Flanges CAST BRONZE



Fig. 214

For Pipe Inches	Inside Diameter Inches	Outside Diameter Inches	Weight Each
2	2 3/8	4 7/8	13 oz.
2 1/2	2 7/8	5 3/8	1 lb.
3	3 1/2	6 3/8	1 1/2 lbs.
3 1/2	4	6 7/8	1 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 1/2	1.00	1.75	2.25	3.00
3	1.50	2.25	2.75	3.75
3 1/2	1.50	2.25	2.75	3.75

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.
1/4	\$ 2.40	\$ 2.20	3/8 x 1 3/8	3/4
3/8	2.90	2.40	1 1/8 x 2 1/8	1 1/2
1/2	3.40	2.70	1 1/4 x 2 1/2	2 1/4
5/8	4.60	3.50	1 7/8 x 2 7/8	3 3/4
3/4	5.75	4.30	1 5/8 x 3 1/8	5 1/4
7/8	9.00	7.50	1 7/8 x 3 1/4	7 3/4
1	9.75	8.00	2 1/8 x 4 1/8	11
1 1/4	13.00	11.00	2 5/8 x 4 7/8	19 1/4
1 1/2	20.50	17.00	2 7/8 x 5 3/4	30 1/2
1 3/4	24.50	20.50	3 1/4 x 6 1/8	43 1/2

Exhaust Tube Flanges

CAST BRONZE



Fig. 738

For Tubing Inches	Inside Diam. Inches	Outside Diam. Inches	Weight Each
2	2 1/8	4 1/8	11 oz.
2 1/2	2 5/8	4 5/8	14 oz.
3	3 1/8	5 1/8	1 lb.
3 1/2	3 5/8	6 1/8	1 1/2 lbs.
4	4 1/4	7 1/4	1 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 1/2	1.00	1.75	2.25	3.00
3	1.50	2.25	2.75	3.75
3 1/2	1.50	2.25	2.75	3.75
4	1.80	2.55	3.05	4.15

Wire Rope Clips

DROP FORGED STEEL—GALVANIZED



Fig. 908

U-Bolts are Hot Galvanized after Threading.

For Rope Diam. Inches	Galvanized Each	Est. Wt. Per 100 in Lbs.
1/4	\$.35	30 1/2
5/16	.35	33 1/4
3/8	.40	44 1/2
7/16	.45	72
1/2	.45	75
5/8	.55	105
3/4	.65	150
7/8	.75	240
1	.85	257
1 1/8	.95	305
1 1/4	1.10	425
1 3/8	1.25	455
1 1/2	1.50	501
1 3/4	5.50	759
2	7.50	1000

Tiller Rope Clamps

CAST BRONZE



Fig. 358

For Rope Diameter Inches	Plain Bronze Each	Width Inches	Length Inches	Weight Ounces
1/8	\$.15	3/4	1 1/2	2
3/8	.20	3/4	1 5/8	3
1/4	.25	1	1 3/4	4
5/8	.30	1	2	7
3/8	.35	1 1/8	2	8

Tiller Rope Clamps

GALVANIZED CAST IRON



Fig. 343

For Rope Diameter Inches	Galv. Each	Width Inches	Length Inches	Est. Wt. Each Pounds
1/8	\$.15	3/8	1 3/8	1/8
3/8	.20	1 1/8	1 1/4	1/4
1/4	.25	1 1/8	1 3/4	1/4
5/8	.30	1 1/2	2	1/2
3/8	.35	1 3/8	2 1/8	1/2

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.
1/8	\$ 8.00	8 1/2
1/4	8.00	16 1/2
3/8	9.00	19
1/2	12.00	25
5/8	15.50	32
3/4	18.50	40
7/8	24.50	62
1	35.00	101
1 1/8	50.00	149
1 1/4	60.00	190
1 3/8	95.00	310
1 1/2	112.00	375
1 3/4	130.00	560
1 7/8	150.00	645
2	415.00	1085
	550.00	1620

Screw Clamps

EXTRA HEAVY MALLEABLE IRON CLAMP

WITH NICKEL STEEL SCREWS



Fig. 577

The finest malleable body screw clamp on the market, guaranteed not to break and for all practical purposes just as good as a drop forged screw clamp.

No.	Each	Extreme Opening Inches	Weight Per Dozen Pounds
111	\$2.00	3	22
112	2.20	4	27
113	2.60	5	33
114	3.00	6	40
115	4.00	8	72
116	5.00	10	96

Hooks and Thimbles

DROP FORGED STEEL
FOR MANILA ROPE



Fig. 609

Size Inches	Galv. Each	Jap. Each	Length Overall Inches	For Diam. Rope Inches	Weight Per 100 in Lbs.
1/4	\$.20	\$.19	2	3/8	6
5/16	.22	.21	2 3/8	1/4	10 1/2
3/8	.24	.23	2 7/8	1/2	18
1/2	.28	.25	3 3/8	3/8	37 1/2
5/8	.40	.35	4 3/8	3/4	80
3/4	.50	.43	5 1/8	7/8	150
7/8	.90	.80	6 1/4	1	212
1	1.10	.85	7	1 1/8	300
1 1/8	1.30	1.05	7 1/2	1 1/4	350
1 1/4	1.60	1.30	8 3/8	1 3/8	450

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	\$.14	2	3/32	7
5/16	.15	2 3/8	1/2	10
3/8	.17	2 1/2	11/32	21
1/2	.20	3 1/4	1/4	26
5/8	.24	4	15/32	50
3/4	.33	4 7/8	1 1/8	92
7/8	.50	5 3/8	1 1/16	128
1	.75	6 1/4	1 1/4	200
1 1/8	1.05	7	1 1/16	255
1 1/4	1.40	7 3/8	1 1/2	375

Hooks and Thimbles

DROP FORGED STEEL
FOR WIRE ROPE



Fig. 610

Size Inches	Galv. Each	Jap. Each	Length Overall Inches	Score of Thimble Inches	Weight Per 100 in Lbs.
1/4	\$.18	\$.17	2	1/8	8
5/16	.20	.19	2 3/8	1/4	11
3/8	.23	.22	2 3/4	5/8	24
1/2	.28	.24	3 1/4	3/8	32
5/8	.40	.35	4	1/2	62
3/4	.45	.40	4 3/8	1/2	103
7/8	.70	.60	5 3/8	3/8	142
1	.95	.75	6 1/4	3/4	225
1 1/8	1.35	1.05	7	7/8	293
1 1/4	1.75	1.40	7 1/4	1	400

"S" Hooks

WROUGHT STEEL GALVANIZED



Fig. 680

Size Inches	Price Per Doz.	Length Overall Inches	Est. Wt. Per Doz. in Lbs.
1/8	\$.40	1 1/2	1/4
1/4	.54	2	1/2
5/16	.94	2 1/2	1
3/8	1.35	3	1 3/4
1/2	2.00	3 3/4	2 3/4
5/8	2.70	3 3/4	4

Screw Hooks

STEEL—GALVANIZED

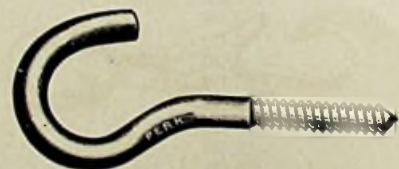


Fig. 779

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 3/8	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	\$1.60	8 ⁷ / ₈	1 ¹ / ₄	1	4	18,000
21	2.70	11	1 ¹ / ₂	1 ¹ / ₄	7 ¹ / ₂	29,800
22	4.10	12 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	14 ¹ / ₂	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	\$10.00	⁷ / ₈	11	21
32	14.00	1	12 ¹ / ₂	35

Seattle Cargo Hooks

DROP FORGED STEEL

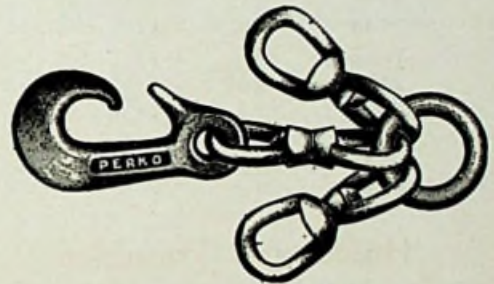


Fig. 461

Size No.	Price Each	Size Swivel Inches	Length Hook Inches	Est. Wt. Each Pounds
41	\$14.00	⁷ / ₈	11	28
42	19.00	1	12 ¹ / ₂	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	\$4.10	8 ⁷ / ₈	⁵ / ₈	1 ¹ / ₄	6 ¹ / ₄
1	5.75	11	¹ / ₈	1 ¹ / ₂	12 ³ / ₄
2	9.25	12 ¹ / ₂	1	1 ¹ / ₂	23

Mooring or Towing Hooks

DROP FORGED STEEL

WITH SAFETY LATCH



Fig. 611

Size No.	Price Each	Size Swivel Shackle Inches	Length Hook Inches	Est. Wt. Each In Lbs.	Size No.	Galv. Each	Inside Diam. Eye Inches	Outside Diam. Eye Inches	Extreme Length Inches	Extreme Width Inches	Throat Opening Inches
10	\$4.10	⁵ / ₈	8 ⁷ / ₈	6 ¹ / ₄	2	\$.75	³ / ₄	1 ¹ / ₂	4 ¹ / ₁₆	2 ¹¹ / ₁₆	⁵ / ₈
11	5.75	³ / ₈	11	12 ³ / ₄	3	.90	⁷ / ₈	1 ³ / ₄	5	3 ¹ / ₁₆	¹¹ / ₁₆
12	9.25	1	12 ¹ / ₂	24	4	1.10	1	2	5 ¹ / ₂	3 ¹¹ / ₁₆	¹¹ / ₁₆

New York Cargo Hooks

DROP FORGED STEEL



Fig. 417

Maxim Silencers

WET TYPE—MODEL M2
CAST IRON



Fig. 334

For Exhaust Pipe Inches	Each	Diameter Inches	Length Overall Inches	Weight Pounds
1 1/2	\$ 11.50	4 3/4	9 3/4	8 3/4
2	14.00	6 1/4	11	15
2 1/2	19.00	7 1/8	12 3/8	30
3	23.50	9 3/8	13 1/2	40
3 1/2	32.00	11	14 3/4	60
4	35.00	12 3/8	15 3/4	80
5	94.00	14	23	145
6	135.00	14 5/8	27 1/2	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

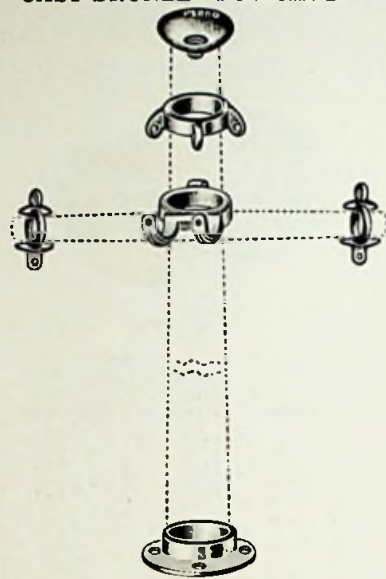


Fig. 586

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 Inches	Inside Diam. Eye Band Inches	Inside Diam. Mast Cap Inches	Inside Diam. End Fittings Inches
1	2 3/4	2 1/2	2 3/8	1 7/8	1 1/4
2	3 1/2	3	2 3/4	2 1/4	1 1/2

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

Boat Boom Fittings CAST BRONZE—POLISHED

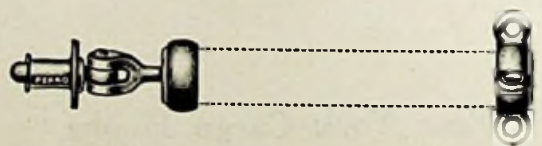


Fig. 456—With Pin and Sleeve

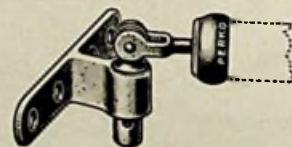


Fig. 457—With Rail Bracket

Fig. 456 consists of swivel pin and sleeve device, ferrule for inboard end and 4 eye band for outboard end of boom.

Fig. 457, consists of rail bracket, swivel pin device, ferrule and 4 eye band.

Fig.	Per Set Complete	For Diam. Boom Inches	Length of Rail Pin Inches
456	\$6.00	2	2
457	8.50	2	2

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 3/8	1/4 or 5/16	.35	.70	5/16
2 1/2 x 3/4	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 1/8	5/16 or 3/8	.45	1.00	3/8
3 1/4 x 1/2	5/16 or 3/8	.50	1.00	3/8
4 x 1/2	3/8 or 7/8	.60	1.40	3/8
4 x 3/8	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 7/8	7/8 or 1/2	1.25	2.75	1/2
5 x 1	1/2 or 5/8	1.40	4.00	5/8
6 x 1 1/8	1/2 or 5/8	1.60	4.00	7/8
6 x 1	3/8 or 3/4	2.00	4.50	3/8

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 1/2 x 3/8	3	\$0.12	\$0.13	\$0.40	\$0.43
2 x 1/2 x 3/8	3 1/2	.13	.14	.42	.45
2 1/4 x 5/8 x 3/8	4	.15	.16	.45	.48
2 1/2 x 3/4 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 1/2	6	.30	.35	.65	.72
4 1/4 x 1 x 1/2	7	.38	.45	.75	.85
4 3/4 x 1 1/8 x 3/8	8	.45	.55	1.00	1.15
5 1/2 x 1 1/8 x 3/8	9	.55	.65	1.10	1.30
6 1/4 x 1 1/4 x 3/8	10	.65	.80	1.35	1.60
7 1/4 x 1 1/4 x 3/4	11	.85	1.00	1.65	1.90
8 x 1 1/8 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 7/8	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
1/4	.180	\$0.15	
5/16	.283	.20	
3/8	.407	.32	
7/16	.555	.42	
1/2	.724	.56	
5/8	---	---	
3/4	---	---	
1	---	---	

Price on Application

Half Round Rod

GALVANIZED IRON AND BRASS

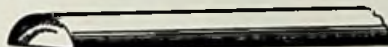


Fig. 800

Width Inches	Approx. Weight Per Foot	Price Per Foot Brass	Price Per Foot Galv.
3/8	.167	\$.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.

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 $\frac{3}{8}$ 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

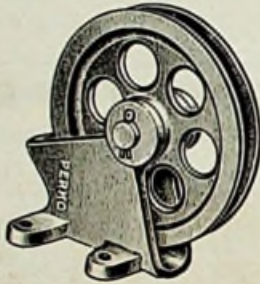


Fig. 963

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

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	$\frac{3}{8} \times \frac{3}{8}$	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 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.
$\frac{1}{4}$	$3\frac{1}{2}$	$1\frac{1}{8}$	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
$\frac{1}{4}$	1	$1 \times \frac{1}{2}$	$\frac{3}{4} \times 2$

Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$.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
2	$\frac{3}{4}$	$\frac{5}{8}$

Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Nickel Silver Each
\$.14	\$.30	\$.50	\$1.25	\$.50

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.
$\frac{1}{4}$	$\frac{7}{8} \times 1\frac{1}{2}$	2

Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$.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.	For Diam. Rope Inches	Diameter Base Inches
1	$\frac{1}{4}$	1½
2	$\frac{3}{8}$	1¾
3	$\frac{1}{2}$	1¾

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

Galvanized Iron Rigging

FOR GUY ROPES

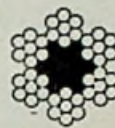


Fig. 759

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
$\frac{3}{8}$	1	.06
$\frac{1}{2}$	1½	.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
$\frac{3}{8}$	.12	.15
$\frac{1}{4}$	.13	.17
$\frac{3}{8}$	.14	.20
$\frac{1}{2}$	.15	.28
$\frac{3}{4}$	.20	.40

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
$\frac{3}{8}$	1½ x 1	\$.14	\$.25	\$.35	\$.70
$\frac{1}{2}$	1¾ x 1½	.16	.30	.40	.75
$\frac{5}{8}$	1¾ x 1¼	.18	.35	.45	.85

Braided Tiller Rope

WITH BRONZE CENTER

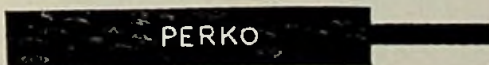


Fig. 761

Diam. Inches	Price Per Foot
$\frac{1}{8}$	\$.05
$\frac{1}{4}$	.06
$\frac{3}{8}$	.08
$\frac{1}{2}$	.11

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	$\frac{3}{8}$	1½ x 1½	\$.08	\$.14	\$.25	\$.70
2	$\frac{1}{2}$	1¾ x 1¾	.10	.16	.30	.75
3	$\frac{5}{8}$	1¾ x 1¾	.12	.18	.35	.85

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



Fig. 43

With Becket



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	$\frac{1}{2}$	$1\frac{1}{4} \times \frac{1}{2}$	$\frac{1}{4}$
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			$\frac{3}{4}$	$3 \times \frac{1}{2}$	$1\frac{3}{8}$

Loose Hook Blocks

GALVANIZED MALLEABLE IRON BODY
FORGED STEEL HOOKS
SINGLE

Without Becket



Fig. 52

With Becket



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	$1\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{4}$
5	.70	2	$\frac{1}{2}$	$\frac{1}{2}$
7	.85	$2\frac{3}{8}$	$\frac{3}{8}$	$\frac{5}{8}$
9	1.05	3	$\frac{1}{2}$	1
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



Fig. 51

With Becket



Fig. 55

Size No.	Galv. Each	Plain Bronze Each	Pol. Bronze Each	For Rope Diam. Inches	Size Sheaves 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	$\frac{1}{2}$	$1\frac{1}{4} \times \frac{1}{2}$	$\frac{3}{8}$
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



Fig. 53

With Becket



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	$\frac{1}{2}$	$\frac{1}{2}$
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	$\frac{1}{8}$	1	$\frac{1}{2}$	$\frac{1}{2}$
1	$\frac{1}{8}$	1 1/4	$\frac{3}{4}$	1 1/4
3	$\frac{1}{4}$	1 3/4	1	2
5	$\frac{1}{4}$	2	1 1/4	2 7/8
7	$\frac{3}{8}$	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	$\frac{1}{8}$	2	1 x $\frac{1}{8}$	5
4	$\frac{3}{8}$	2 1/4	1 3/8 x $\frac{1}{8}$	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. Each	Size Base Inches	Diam. Rope Inches	Wt. Per Doz. in Lbs.
1	\$.25	\$.50	\$1.50	$\frac{3}{4}$ x 2 $\frac{1}{8}$	$\frac{1}{4}$	1 3/8
2	.35	.60	1.60	$\frac{7}{8}$ x 2 $\frac{1}{8}$	$\frac{1}{4}$	2
3	.45	.75	1.75	1 x 3 3/8	$\frac{3}{8}$	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	$\frac{1}{8}$	1	$\frac{1}{2}$	1 1/8
2	$\frac{1}{8}$	1 1/4	$\frac{3}{4}$	2 1/4
4	$\frac{1}{4}$	1 3/4	1	3 3/8
6	$\frac{1}{4}$	2	1 1/4	4 1/2
8	$\frac{3}{8}$	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	Pol. Brass Each	For Rope Diam. Inches	Style Block	Weight Per 100 in Lbs.
3	\$.48	\$1.50	$\frac{1}{4}$	Swivel Eye	20
5	.55	1.75	$\frac{1}{8}$	Swivel Eye	35
7	.85	2.00	$\frac{3}{8}$	Swivel Eye	66
9	1.10	.....	$\frac{1}{2}$	Fast Eye	72

Deck Blocks

OPEN PATTERN
GALVANIZED IRON AND BRONZE

SINGLE



Fig. 87

Size No.	Mall. Iron Each	Cast Iron Each	Pol. Bronze Each	For Dia. Rope Inches	Wgt. Each Pounds	Size Sheave Inches
0	\$.24	\$.20	\$.90	$\frac{1}{8}$	$\frac{1}{8}$	$1\frac{1}{4} \times \frac{3}{8}$
1	.28	.24	1.00	$\frac{3}{8}$	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$
3	.55	.40	1.75	$\frac{1}{2}$	$\frac{3}{4}$	$2 \times \frac{3}{8}$
5	.90	.75	2.75	$\frac{3}{8}$	$1\frac{1}{2}$	$2\frac{1}{2} \times \frac{3}{4}$
7	1.50	1.35	4.00	$\frac{3}{4}$	$2\frac{1}{4}$	$3 \times \frac{3}{8}$

Deck Blocks

OPEN PATTERN
GALVANIZED IRON AND BRONZE

DOUBLE

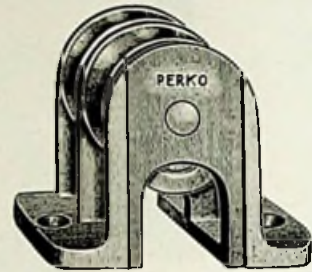


Fig. 88

Size No.	Mall. Iron Each	Cast Iron Each	Pol. Bronze Each	For Dia. Rope Inches	Wgt. Each Pounds	Size Sheave Inches
2	\$.55	\$.48	\$ 1.25	$\frac{3}{8}$	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$
4	1.10	.80	2.50	$\frac{1}{2}$	$1\frac{3}{8}$	$2 \times \frac{3}{8}$
8	2.70	2.00		$\frac{3}{4}$	$3\frac{3}{8}$	$3 \times \frac{3}{8}$

Deck Blocks

CLOSED PATTERN
GALVANIZED MALLEABLE AND CAST IRON

SINGLE

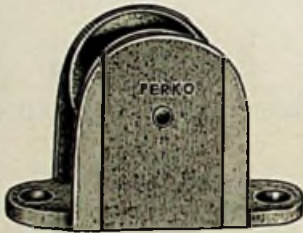


Fig. 93

Size No.	Mall. Iron Each	Cast Iron Each	For Dia. Rope Inches	Weight Each Pounds	Size Sheave Inches
000		\$.18	$\frac{1}{4}$	$\frac{1}{8}$	$1 \times \frac{1}{4}$
0	\$.28	.20	$\frac{1}{8}$	$\frac{1}{4}$	$1\frac{1}{4} \times \frac{3}{8}$
1	.33	.28	$\frac{3}{8}$	$\frac{1}{2}$	$1\frac{1}{2} \times \frac{1}{2}$
3	.55	.40	$\frac{1}{2}$	1	$2 \times \frac{3}{8}$
5	.90	.75	$\frac{3}{8}$	$1\frac{3}{4}$	$2\frac{1}{2} \times \frac{3}{4}$
7	1.50	1.35	$\frac{3}{4}$	$2\frac{1}{4}$	$3 \times \frac{3}{8}$

Deck Blocks

CLOSED PATTERN
GALVANIZED MALLEABLE AND CAST IRON

DOUBLE

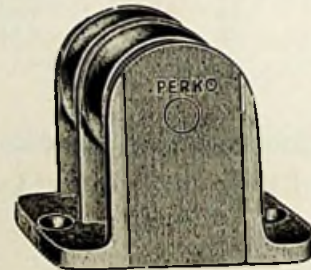


Fig. 94

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	$\frac{1}{2}$	$1\frac{1}{2}$	$2 \times \frac{3}{8}$

Cheek Blocks

GALVANIZED MALLEABLE IRON AND BRONZE

SINGLE



Fig. 95

Size No.	Galv. Each	Polished Bronze Each	For Dia. Rope Inches	Weight Each Pounds	Size Sheave Inches
0	\$.30	\$.75	$\frac{1}{4}$	$\frac{1}{8}$	$1 \times \frac{3}{8}$
1	.35	.90	$\frac{1}{8}$	$\frac{1}{4}$	$1\frac{3}{8} \times \frac{1}{4}$
2	.45	1.25	$\frac{3}{8}$	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$
3	.80	1.75	$\frac{1}{2}$	$\frac{3}{4}$	$2 \times \frac{3}{8}$
4	1.00		$\frac{3}{8}$	$1\frac{1}{4}$	$2\frac{1}{2} \times \frac{3}{4}$
5	1.25		$\frac{3}{4}$	$1\frac{3}{4}$	$3 \times \frac{3}{8}$
6	1.50		$\frac{3}{8}$	4	$3\frac{1}{2} \times 1$

Cheek Blocks

GALVANIZED MALLEABLE IRON AND BRONZE

DOUBLE



Fig. 96

Size No.	Galv. Each	Polished Bronze Each	For Dia. Rope Inches	Weight Each Pounds	Size Sheave Inches
11	\$.60	\$ 1.50	$\frac{1}{4}$	$\frac{1}{2}$	$1\frac{3}{8} \times \frac{1}{4}$
12	.90	1.90	$\frac{3}{8}$	$1\frac{1}{4}$	$1\frac{1}{2} \times \frac{1}{2}$
13	1.25	3.00	$\frac{1}{2}$	$1\frac{3}{4}$	$2 \times \frac{3}{8}$



Deck Blocks

FOR WIRE ROPE

GALVANIZED MALLEABLE IRON AND BRONZE

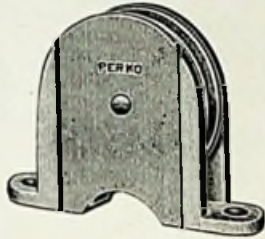


Fig. 139

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 x 1/8	1 7/8 x 1 1/8	5/8
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

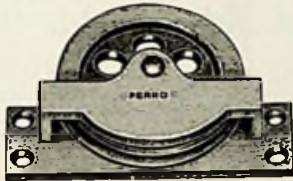


Fig. 194

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 x 3/8	4 1/2 x 1 1/8	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 x 3/8	4 1/2 x 1 1/8	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 x 1/8	1 7/8 x 1 1/8	5/8
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 x 3/8	4 1/2 x 1 1/8	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 x 3/8	4 1/2 x 1 1/8	4 1/4

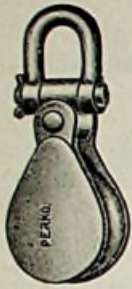
Bronze Yacht Blocks

MANGANESE BRONZE—PLAIN 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 1/8 x 1 1/4	5/16
1	1 3/8 x 1/2	3/8
2	1 7/8 x 5/8	1/2

Front Shackle Block

SINGLE

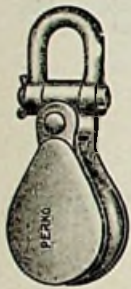


Fig. 851

No.	Polished Each	Nickel Plated Each
0	\$1.00	\$1.50
1	1.50	2.00
2	2.25	2.85

DOUBLE

No.	Polished Each	Nickel Plated Each
0	\$1.75	\$2.40
1	2.75	3.40
2	4.00	4.80

Side Shackle Block

SINGLE

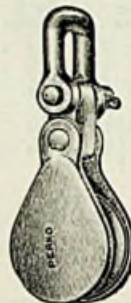


Fig. 854

No.	Polished Each	Nickel Plated Each
0	\$1.00	\$1.50
1	1.50	2.00
2	2.25	2.85

DOUBLE

No.	Polished Each	Nickel Plated Each
0	\$1.75	\$2.40
1	2.75	3.40
2	4.00	4.80

Upset Front Shackle Block

SINGLE



Fig. 852

No.	Polished Each	Nickel Plated Each
0	\$1.00	\$1.50
1	1.50	2.00
2	2.25	2.85

DOUBLE

No.	Polished Each	Nickel Plated Each
1	\$2.75	\$3.40
2	4.00	4.80

Upset Side Shackle Block

SINGLE



Fig. 855

No.	Polished Each	Nickel Plated Each
0	\$1.00	\$1.50
1	1.50	2.00
2	2.25	2.85

DOUBLE

No.	Polished Each	Nickel Plated Each
1	\$2.75	\$3.40
2	4.00	4.80

Loose Side or Front Hook Block

SINGLE



Fig. 853

No.	Polished Each	Nickel Plated Each
0	\$1.00	\$1.50
1	1.50	2.00
2	2.25	2.85

DOUBLE

No.	Polished Each	Nickel Plated Each
1	\$2.75	\$3.40
2	4.00	4.80

State whether Side or Front Hook is desired.

Open Snatch Block

SINGLE ONLY



Fig. 856

No.	Polished Each	Nickel Plated Each
0	\$1.25	\$1.75
1	1.75	2.25
2	2.50	3.10

FOR SIZE OF SHEAVE AND ROPE, REFER TO TOP OF PAGE SPECIFY SINGLE OR DOUBLE, WITH OR WITHOUT BECKET.

BRONZE YACHT BLOCKS

Side Snap Shackle Block

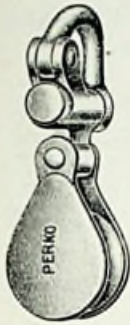


Fig. 857

SINGLE ONLY

No.	Polished Bronze Each	Nickel Plated Each
0	\$2.10	\$2.85
1	2.85	3.60
2	4.00	5.00

Block With Eye Strap

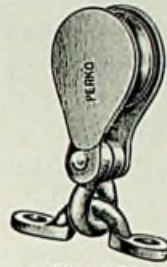


Fig. 861

SINGLE

No.	Polished Bronze Each	Nickel Plated Each
0	\$1.00	\$1.50
1	1.50	2.00
2	2.25	2.85

DOUBLE

No.	Polished Bronze Each	Nickel Plated Each
1	\$2.75	\$3.40
2	4.00	4.80

Self Locking Bridle Block

FOR PEAK HALYARD



Fig. 858

SINGLE ONLY

No.	Polished Bronze Each	Nickel Plated Each
1	\$3.00	\$3.75
2	4.00	5.00

Bridle Only see Fig. 877

Link Deck Leader



Fig. 862

SINGLE ONLY

No.	Polished Bronze Each	Nickel Plated Each
0	\$1.35	\$1.85
1	2.00	2.50
2	3.00	3.60

Main Sheet Bridle Block

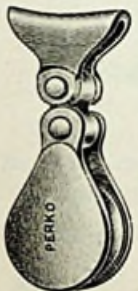


Fig. 859

SINGLE ONLY

No.	Polished Bronze Each	Nickel Plated Each
0	\$1.35	\$2.10
1	2.00	2.75
2	3.00	4.00

Halyard Deck Leader

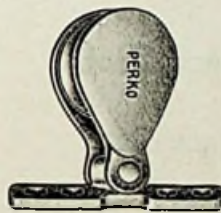


Fig. 863

SINGLE

No.	Polished Bronze Each	Nickel Plated Each
0	\$1.25	\$1.75
1	1.85	2.35
2	2.75	3.35

DOUBLE

No.	Polished Bronze Each	Nickel Plated Each
0	\$2.00	\$2.65
1	3.10	3.75
2	4.50	5.30

Peak Halyard Bridle Block



Fig. 860

SINGLE ONLY

No.	Polished Bronze Each	Nickel Plated Each
1	\$3.00	\$3.75
2	4.00	5.00

BRIDLE ONLY WITH EYE

No.	Plain Bronze Each	Polished Bronze Each	Nickel Plated Each
1	\$1.35	\$1.75	\$2.25
2	1.60	2.00	2.60

Swivel Deck Leader

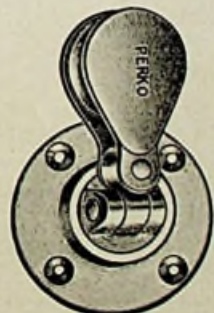


Fig. 864

SINGLE ONLY

No.	Polished Bronze Each	Nickel Plated Each
0	\$2.25	\$3.00
1	3.00	3.75
2	4.00	5.00

BRONZE YACHT BLOCKS AND FITTINGS

Wide Mortise Blocks

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
1	1/2	1 1/2
2	3/8	1 3/4
No.	Polished Bronze Each	Nickel Plated Each
1	\$3.25	\$4.00
2	4.35	5.35

Bullet Blocks

FOR JIB SHEETS AND LEADERS
SINGLE ONLY



Fig. 869

No.	For Rope Diam. Inches	Size Sheave Inches	Polished Bronze Each	Nickel Plated Each
0	5/16	3/4 x 1 1/4		
1	3/8	7/8 x 1 1/2	\$.50	\$.80
2	7/16	1 1/8 x 3/8	.65	.95
			.75	1.15

Bullet Blocks On Snap Shackle

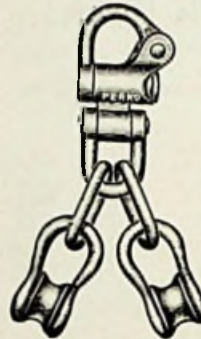


Fig. 870

FOR JIB SHEETS

No.	For Rope Diam. Inches	Lgth. Snap Shackle Inches	Polished Bronze Per Set	Nickel Plated Per Set
0	5/16	2 5/8		
1	3/8	3 1/4	\$3.25	\$4.85
			3.75	5.50

Cheek Block



Fig. 866

SINGLE		
No.	Polished Bronze Each	Nickel Plated Each
0	\$1.00	\$1.50
1	1.50	2.00
2	2.25	2.85
DOUBLE		
No.	Polished Bronze Each	Nickel Plated Each
0	\$1.75	\$2.40
1	2.75	3.40
2	4.00	4.80

Snap Action Clew Outhaul

MANGANESE BRONZE—PLAIN



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	3/8	5
2	3.50	7/8	5 1/2

Improved Centerboard Block



Fig. 867

SINGLE ONLY

No.	Polished Bronze Each	Nickel Plated Each
0	\$1.00	\$1.50
1	1.50	2.00
2	2.25	2.85

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	3/8	15
2	3.50	3/4	13
3	6.50	7/8	15

Open Lead Blocks



Fig. 868

FOR GENOA JIB SHEETS

No.	For Rope Diam. Inches	Size Sheave Inches	Polished Bronze Each	Nickel Plated Each
1	3/8	1/2 x 1/2	\$1.50	\$2.00
2	1/2	1 1/4 x 3/8	2.50	3.25

BRONZE YACHT FITTINGS

Fast Eye Snap Shackle

MANGANESE BRONZE—PLAIN



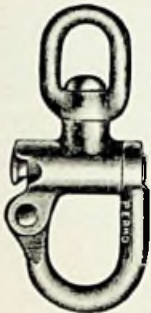
For Balloon Jib, Spinnaker, Halyards and Sheets.

No.	Price Each	For Rope Diam. Inches	Lgth. Over-all Inches	Width Opening Inches
0	\$.85	1/4	2 1/8	3/8
1	1.00	5/16-3/8	2 3/8	3/4
2	1.25	7/16-1/2	3 1/8	3/4

Fig. 873

Swivel Eye Snap Shackle

MANGANESE BRONZE—PLAIN



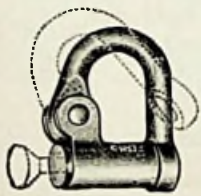
For Ballon Jib, Spinnaker, Halyards and Sheets.

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	2.50	7/16-1/2	4 1/2	7/8

Fig. 874

Headboard Snap Shackle

MANGANESE BRONZE—PLAIN



For attaching Main Halyards to Headboard.

No.	Price Each	Length Overall Inches	Width Opening Inches
1	\$1.00	2	3/4
2	1.25	2 1/2	7/8

Fig. 875

Improved Headboard Snap Shackle

MANGANESE BRONZE—PLAIN



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

Fig. 876

Self Locking Bridles

MANGANESE BRONZE—PLAIN

FOR PEAK HALYARD BLOCKS



No.	Price Each	For Size Wire Inches	Size Opening For Block Inches
1	\$1.10	1/4	3/8
2	1.35	5/16	1/2
3	1.60	3/8	5/8

Fig. 877

Boom Plate Travelers

MANGANESE BRONZE—PLAIN



Fig. 878

Diam. Boom	Price Each	Width of Plate Inches
2	\$.70	1 1/4
2 1/2	.80	1 1/2
3	1.00	1 3/8

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 3/8

Eye Plates

MANGANESE BRONZE



Fig. 880

No.	Length Plate Inches	Opening of Eye Inches	Stock in Eye Inches
1	3 1/8	1 1/8 x 3/4	5/8
2	3 1/2	1 1/2 x 3/8	1 1/8
3	4 1/8	3/8 x 1 1/8	3/8

No.	Plain Each	Polished Each	Nickel Plated Each
1	\$.75	\$1.25	\$1.65
2	.90	1.50	1.90
3	1.20	1.90	2.40

Eye Straps

MANGANESE BRONZE



Fig. 881

No.	Length Inches	Size Eye Inches	Stock in Eye Inches
0	2	1 1/8	1 1/8
1	2 1/4	3/8	1/4
2	2 3/4	1/2	1 1/8

No.	Plain Each	Polished Each	Nickel Plated Each
0	\$.20	\$.30	\$.50
1	.25	.40	.60
2	.30	.50	.75

Deck Straps

MANGANESE BRONZE



Fig. 882

No.	Plain Each	Polished Each	Nickel Plated Each	Length Inches
1	\$.40	\$.50	\$.75	3 1/2
2	.50	.60	.85	4 1/4

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

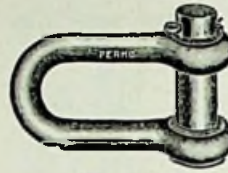


Fig. 893

No.	Size Inches	Plain Each	Polished Each
0	1/4	\$.30	\$.45
1	1/4	.35	.50
2	3/8	.45	.60

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	5/8

Automatic Jam Cleats

CAST BRONZE—POLISHED

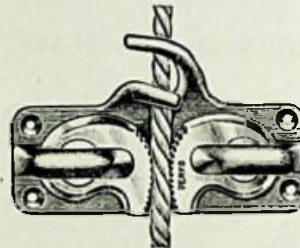


Fig. 895

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 1/8 to 1/2 inch diameter inclusive.

Price Each \$4.50

Masthead Trucks

LIGNUMVITAE



Fig. 891

Diam. Inches	Two Holes Each	One Sheave Each	Two Sheaves Each
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	Thick-ness Inches	Bear-ing Inches
1 1/4	\$.50	1/4	3/8	1/8
2	.65	3/8	1/2	1/8
2 1/4	.80	1/2	5/8	3/8

Roller Jam Cleat

CAST BRONZE



Fig. 894

Combines the features of both a snatch block and jam cleat.

Polished Bronze Each	For. Diam. Rope Inches	Extreme Length Inches
\$1.40	1/4 to 3/8	5

Solid Wire Rope Thimbles

MANGANESE BRONZE

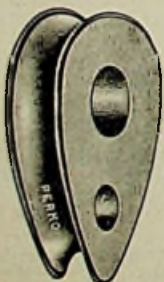


Fig. 929

For Size Rope Inches	Price Each	Thick-ness Inches	For Turnbuckle Inches
1/8	\$.25	1/8	1/4
3/16	.30	3/16	1/4
1/4	.35	1/4	3/8
5/16	.40	5/16	1/2
3/8	.45	3/8	1/2
7/16	.50	7/16	3/4

Bronze Wire Rope Thimbles

WROUGHT BRONZE



Fig. 930

For Size Rope Inches	Price Each
1/8	\$.15
1/4	.15
3/8	.20
1/2	.25
5/8	.30
3/4	.35
7/8	.55

For dimensions refer to Fig. 466, Page 127.

Bronze Gooseneck Bands

MANGANESE BRONZE—PLAIN

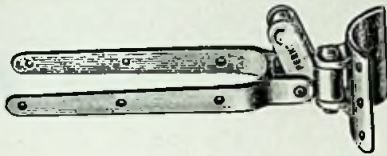


Fig. 883



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.

Mast Diam. Inches	Diam. Boom End Inches	Fig. 883 Each	Fig. 884 Each
3 1/4 to 3 1/2	1 3/4	\$3.50	\$4.00
4 to 4 1/2	2 1/2	5.00	6.00

Adjustable Gooseneck Bands

GALVANIZED DROP FORGED STEEL

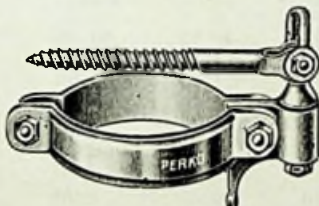


Fig. 885

Inside Diam. of Band Inches	Without Belaying Pin Holes Each	With Four Belaying Pin Holes Each	Diam. of Screw Inches
3	\$4.30	\$11.00	7/16
3 1/2	4.90	11.50	7/8
4	5.50	12.00	1/2
4 1/2	6.00	13.00	1/2

Larger sizes made to order.

Prices do not include belaying pins. Furnished without belaying pin holes unless otherwise specified.

Gooseneck Bands

GALVANIZED DROP FORGED STEEL



Fig. 886

For Size Mast Inches	Each	Weight Each Pounds	For Size Mast Inches	Each	Weight Each Lbs.
2 1/2	\$3.25	7/8	3 1/2	\$3.50	1 3/8
3	3.25	1 1/8	4	4.25	1 3/4

Jib Club Fittings

MANGANESE BRONZE—PLAIN



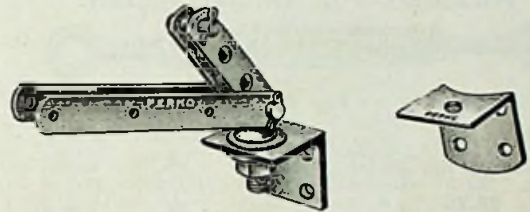
Fig. 887

Allows club to be easily removed from jib stay.

For Diam. Club Inches	Price Each
1 1/2	\$2.50
1 3/4	2.75
2	3.25

Midget 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.

Mast Track and Slides

NICKEL SILVER

Slide

Track



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.

Bronze Rigging Turnbuckles

MANGANESE BRONZE

With Stiff Jaw Ends—S. A. E. Threads



Fig. 932

Size In.	Price Each	Extra For Solid Each	Extra For Loose Toggle Each	Length of Stiff Jaws Closed	Length of Stiff Jaws Opened	Jaw Opening Inches	Suitable Airplane Wire Rope Inches
1/4	\$3.00	\$.25	\$.50	7 1/8	10 3/8	Both 1/4	1/8
5/16	3.25	.30	.65	7 7/8	11 3/8	Both 5/16	5/16
3/8	3.50	.35	.85	9	12 3/4	Both 3/8	3/8
7/8	4.00	.40	1.25	10	14 1/4	1 1/8 - 1 1/8	1/4
1/2	5.00	.45	1.50	11 1/2	16 1/2	1 1/2 - 3/8	3/4

Foot Rope Plates

GALVANIZED DROP FORGED STEEL

For Foot Ropes or Bowsprit Shrouds



Fig. 568

Length Under Eye Inches	Galvanized Each	Size Iron Inches	Size Eye Inches
3	\$.70	3/4 x 1/8	1/2
4	.80	7/8 x 1/8	5/8
5	.95	1 x 1/4	3/4
6	1.10	1 1/8 x 1/4	7/8
8	1.35	1 1/4 x 1/4	7/8
10	1.60	1 1/4 x 1/8	1

Fitted for Shackle when desired. Larger sizes made to order.

Bronze Turnbuckles

MANGANESE BRONZE—SLOTTED PATTERN

POLISHED—FOR YACHT RIGGING



Fig. 397

Diam. Thread Inches	Jaw & Eye or Jaw & Jaw Each	Length Sleeve Inches	Overall Length Closed Inches	Inside Diam. Eye Inches	Width Jaw Inside Inches
1/4	\$2.75	4	6 7/8	1 1/8	1/4 & 1/4
5/16	3.25	4 3/4	7 5/8	1 1/8	1/4 & 5/16
3/8	3.75	4 7/8	8 1/4	1 1/4	5/16 & 1/2
1/2	4.75	6	10 1/4	3/8	3/8 & 3/8
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.

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	\$.38	\$.95	\$1.30	3/4 x 1/8
5	.43	1.10	1.45	7/8 x 1/8
6	.55	1.20	1.55	1 x 1/8
8	.65	1.45	1.90	1 1/8 x 1/8
10	.85	1.80	2.40	1 1/4 x 1/4
12	1.10	2.20	2.90	1 1/4 x 1/4
14	1.35	3.20	4.30	1 1/2 x 1/8
16	1.55	4.30	6.00	1 1/2 x 1/8
18	1.90	6.00	8.00	1 3/4 x 3/8
20	2.40			1 3/4 x 3/8

Any size made to order.

Release Hooks

MANGANESE BRONZE



Fig. 890

No.	Length Closed Inches	Size Opening Inches	Size Eye Inches	Plain Each	Polished Each
1	4	1/2	1/2 x 3/8	\$1.10	\$1.30
2	5 1/2	3/8	3/8 x 3/8	1.40	1.60

Bronze Deck Travelers

TO BOLT THROUGH DECK

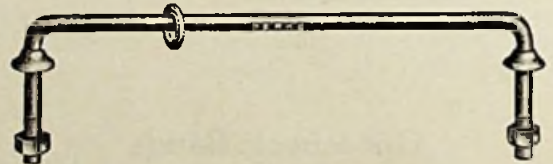


Fig. 933

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

Bronze Deck Travelers

WITH PLATES TO SCREW TO DECK

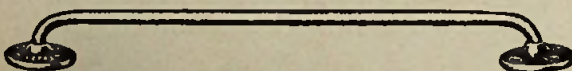


Fig. 896

Diam. Slide Inches	Length Inches	Plain Each	Polished Each
3/8	24	\$3.50	\$4.20
1/2	24	4.75	5.50

OTHER SIZES MADE TO ORDER



Eye Bands

GALVANIZED DROP FORGED STEEL AND MANGANESE BRONZE



Fig. 426

Inside Diam. Inches	Price Each			
	One Eye	Galvanized or Bronze Two 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.

Gaff Topsail Hooks

GALVANIZED MALLEABLE IRON COLEMAN PATTERN

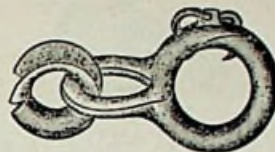


Fig. 931

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	1/2	3/4	1.60	1 1/4
3/4	.70	3/4	1	2.70	2 1/2
1	.85	1			

Sizes larger than 3/4" furnished on application

Centerboard Blocks

GALV. MALLEABLE IRON AND BRONZE



Fig. 827

No.	Galvanized Each	Polished Bronze Each	Size Rope Inches	Size Sheave Inches
1	\$.75	\$1.75	3/8	1 1/2 x 1/2
2	1.50	3.00	1/2	2 x 3/8

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	\$13.00	10 1/2	5 x 1/4	\$15.50	24 1/2
2 1/2 x 1/4	13.50	12 1/2	6 x 1/4	16.50	30
3 x 1/4	14.00	15	7 x 1/4	17.50	34 1/2
3 1/2 x 1/4	14.00	17	8 x 1/4	18.50	39
4 x 1/4	14.50	20	9 x 1/4	21.00	44
4 1/2 x 1/4	15.00	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 1/8 x 1 1/2	\$.21	3/8 x 3	\$.28	1/2 x 6	\$.55
1 1/8 x 2	.22	3/8 x 3 1/2	.30	3/8 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		

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 5/8
15	2.10	2 1/2	10	6.20	3 3/4
15 1/2	2.10	2 5/8	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			

Sailors Seaming Palms

FULL HIDE MOUNTED



Fig. 411

PRICE PER DOZEN \$3.90

Jib Snaps

GALVANIZED MALLEABLE IRON



Fig. 765

Size No.	Each	Extreme Length Inches	For Diam. Stay Inches	Weight Per 100 in Lbs.
0	\$0.25	1 3/4	3/4	4 3/4
1	.30	2	1	10
2	.35	2 3/8	3/4	12 1/2
3	.40	2 3/4	1/2	21
4	.45	3	5/8	23 1/4

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	5/8	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	Polished Bronze Each	Chrom. Plated Each	Inside Dia. Eye Inches	Extreme Length Inches	Weight Per 100 Pounds
1	\$.70	\$.75	\$1.50	5/8	3 1/4	11
2	.80	.85	1.60	3/4	3 1/4	16 1/4
3	.90	1.25	2.25	7/8	4 3/4	32
4	1.00			1	5 1/4	37
5	1.25			1 1/8	6	60

Baby Snaps

GALVANIZED AND POLISHED BRASS



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
3/4	\$.75	\$1.10	3	2
7/8	.85	1.40	4	3
1/2	.95	1.70	5	3 1/2
5/8	1.10	2.80	6	4
3/4	3.40		8	5

Lacing Eyes

GALVANIZED MALLEABLE IRON AND BRASS REGULAR

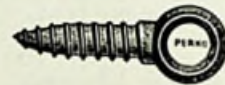


Fig. 766

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	3/8	1 1/8	3 3/4
3	.07	.10	1/2	1 1/2	8 1/8
4	.12	.14	5/8	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	3/8	1	3 1/2
6	.05	.08	1/2	1	3 3/4
7	.07	.10	1/2	1	4 3/8
8	.12	.14	5/8	1 3/4	11

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 3/4	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



Enos Windlass

GALVANIZED—BRONZE

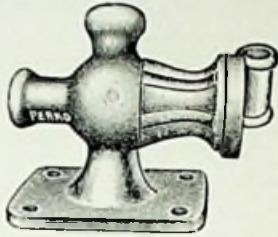


Fig. 964

Size No.	Galvanized Each	Polished Bronze Each	Height Inches	Width Overall Inches	Est. Wt. Each Bronze in Lbs.
0	\$12.50	\$30.00	6	7 1/2	12
1	22.50	55.00	8 1/2	9	27
2	25.00	65.00	10 1/2	11	34
3	35.00	85.00	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	5/8	3/4	3/4	25
2	3 1/2	7 3/8 x 9 1/2	3/4	1/2	7/8	31
3	4 1/2	7 1/2 x 10	3/4	3/4	1 1/8	53

Yacht Capstan

ALL BRASS OR BRASS AND GALVANIZED

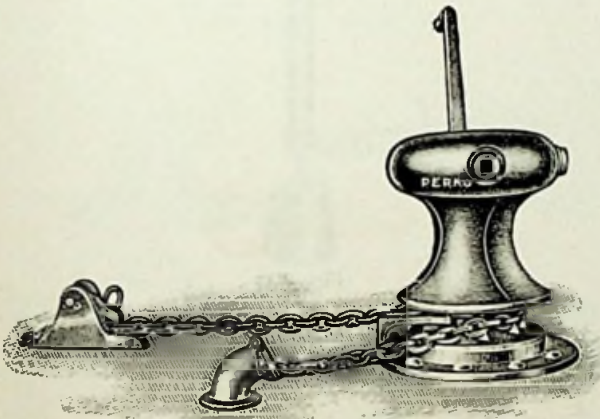


Fig. 965

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 1/16, 3/8, 1/2, and 3/4 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				

Patent Gypsy Windlass

PAINTED FINISH

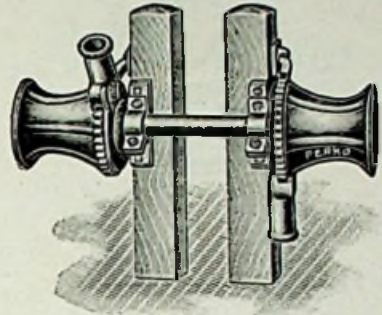


Fig. 966

Full Windlass has Two Heads
Half Windlass has One Head

Size	Half Windlass Each	Full Windlass Each	Blts 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 Gypsy Windlass

WITH LOOSE WILDCAT

IMPROVED PAWLS AND RATCHET

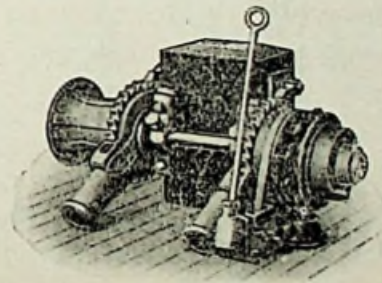


Fig. 967

Positive ratchet, no slipping of pawls. Turned steel shafts, machined boxes, fitted with grease cups.

Wildcats are made to fit chain used, therefore when ordering, always furnish a sample of at least six links.

Furnished complete with deck pipe and chain stopper.

Size	Blts 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 B	Painted Each \$ 85.00		Galvanized Each \$100.00	
1	105.00		125.00	

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	5/16	5/16
2	.70	3/8	3/4
3	1.00	7/16	1
4	1.50	1/2	2
5	2.00	5/8	2 1/2

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.

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	5/16	1 1/8
2	1.95	3/8	1 1/2
3	2.60	7/16	1 3/4
4	3.50	9/16	2 1/2
5	4.60	5/8	3 1/2
6	6.00	3/4	5 3/8
7	15.00	7/8	5 5/8
8	17.50	1 1/8	8

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.

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	5/16	5/16
2	1.10	3/8	3/4
3	1.30	7/16	1 1/8
4	1.90	1/2	1 3/4
5	2.70	5/8	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		

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

Curtain Toggles

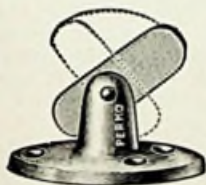
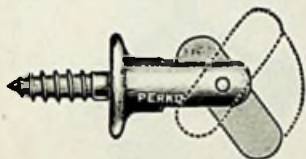


Plate
Fig. 998



Screw
Fig. 999

	Per Dozen
Plain Bronze Plate or Screw	\$2.50
Polished Bronze Plate or Screw	3.50

Grommet Hooks

CAST BRONZE

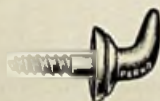


Fig. 1000

Plain
Bronze
Per Gross
\$5.00

Polished
Bronze
Per Gross
\$10.00

Grommet Hooks

WROUGHT BRASS



Fig. 1001

PER GROSS\$8.00

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	\$.45	1/2	\$ 1.00
3/8	.48	3/8	1.60
1/2	.50	1/2	2.30
5/8	.90	3/4	2.90
3/4	.95	1	4.00
7/8	1.25	1 1/8	5.50
1	2.20	1 1/4	6.00
1 1/8	2.40	1 1/2	11.00
1 1/4	3.80	1 3/4	12.00
1 1/2	4.00	2	13.00
1 3/4	6.75	2 1/4	22.00
2	8.25	2 1/2	22.50
	10.50	3	28.00

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.

Gas Tank Caps and Flanges

CAST BRONZE AND NICKEL SILVER



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	Nickel Silver Per Set	
\$2.50	\$3.00	\$4.50	\$3.25	

Self Locking Gas Tank Cap

CAST BRONZE AND NICKEL SILVER



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	Nickel Silver Per Set
\$3.00	\$3.50	\$4.50	\$3.50

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 3/8 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.



Fig. 370

Can also be furnished with welded eye bolts top and bottom non swivel—same prices.

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	28.00	24.00

Size does not include swivel or eye.

Can also be furnished with 3/4 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, 3/8 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. 3/8 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 1½ 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	¾	5x2½

Hold Fast Buoy

A REAL MOORING BUOY FOR SMALL BOATS
AT A LOW PRICE



Fig. 445

A heavy gauge galvanized sheet iron body, a ½ 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	33½	3	15
2	13.50	17	27	38½	3	24

Galvanized Buoy Rods

COMPLETE AS ILLUSTRATED

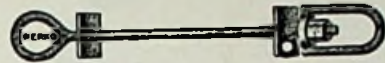


Fig. 278

Diam. Inches	Length Under Eye Inches	Price Each
1/2	18	\$1.90
1/2	20	2.00
5/8	24	2.50
5/8	30	2.75
5/8	33½	4.00
5/8	37½	4.25
5/8	43½	4.50
7/8	37½	7.00
7/8	43½	7.50
7/8	52	8.00

Grappels

GALVANIZED DROP FORGED STEEL
FIVE PRONG

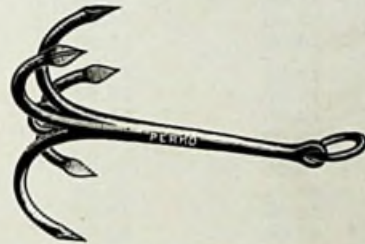


Fig. 207

Weight Pounds	Galv. Each	Height Inches	Spread of Prongs Inches
4	\$2.00	14½	10½
6	2.40	20½	13½
8	3.00	20½	13½
10	3.20	24¼	15½
15	4.80	25	16
20	6.50	29½	18
25	8.00	31	20

Anglers Anchor

FOR SMALL BOATS



Fig. 216

Weight Pounds	Galvanized Each	Japanned Each	Diameter Inches	Height Inches
7	\$1.60	\$1.20	6	8
11	2.40	1.75	7	9
15	3.20	2.40	8	10

Kedge Anchors
DROP FORGED STEEL



Fig. 149

Weight Lbs.	Galvanized Each	Japanned Each	Length Inches
5	\$2.80	\$2.20	16
8	4.50	3.40	23
10	4.70	3.60	24
12	5.00	4.00	27
15	5.50	4.30	28
20	6.50	5.00	31
25	6.75	5.50	33
30	8.00	6.50	34
35	9.50	7.75	37
40	11.00	8.75	40
50	13.50	11.00	42
60	14.00	11.50	45
75	14.50	12.00	45
100	19.00	15.50	51
125	24.00	19.50	52
150	29.00	23.50	55½
200	39.00	31.00	62½
250	48.00	39.00	64
300	58.00	47.00	65
350	67.00	55.00	65
400	77.00	63.00	72
450	87.00	70.00	72
500	96.00	78.00	72
550	106.00	86.00	
600	115.00	94.00	
650	125.00	102.00	
700	135.00	109.00	

Navy Type Anchor

DROP FORGED SHANK—GALVANIZED

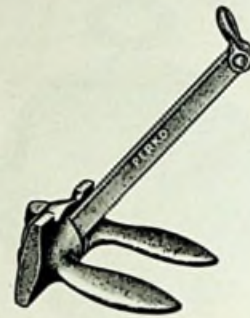


Fig. 45

Weight Pounds	Price Each	Length Inches	Weight Pounds	Price Each	Length Inches
5	\$1.80	12	50	11.10	26
10	3.05	14	60	12.90	28
15	4.05	15	80	18.50	30
20	5.30	17	100	22.50	31
25	6.50	18	125	28.00	32
30	7.75	19	150	34.00	34
35	8.60	21	200	44.00	41
40	9.45	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	\$1.80	12
10	3.05	14
15	4.05	15
20	5.30	17
25	6.50	18
30	7.75	19
35	8.60	21
40	9.45	23
50	11.10	26
60	12.90	28
80	18.50	30
100	22.50	31
125	28.00	32
150	34.00	34
200	44.00	41

Mushroom Anchor

STEEL SHANK RIVETED THROUGH HEAD

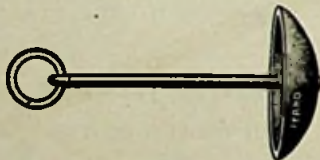


Fig. 142

Wgt. Lbs.	Galv. Each	Jap. Each	Wgt. Lbs.	Galv. Each	S. C. Each
5	\$1.60	\$1.30	100	\$12.00	\$ 8.50
8	2.00	1.75	125	15.00	10.50
10	2.50	2.00	150	18.00	12.75
15	3.70	3.00	200	24.00	17.00
20	4.50	3.25	250	29.75	21.00
25	5.25	3.75	300	36.00	25.50
35	5.75	4.00	350	42.00	29.75
			400	48.00	34.00
50	6.00	4.25	450	54.00	38.25
75	9.00	6.50	500	60.00	42.50

Anchors 50 lb. and over, are self colored.

Government Tolerance in Weight, Plus or Minus 5%



Trawl and Sand Anchors
DROP FORGED STEEL
FAST STOCK



Fig. 364

Size Pounds	Galvanized Each	Japanned Each
5	\$1.95	\$1.65
8	2.75	2.00
10	2.90	2.20
12	3.75	2.90
15	4.10	3.10
20	5.25	4.00
25	6.50	4.70
30	7.75	5.50
35	9.25	6.50
40	10.50	7.50
50	13.00	8.50
60	13.50	8.75
75	14.00	9.00
100	17.50	12.00

LOOSE STOCK

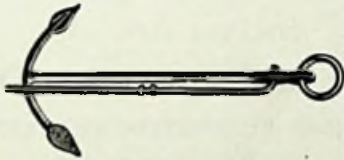


Fig. 365

Size Pounds	Galvanized Each	Japanned Each
5	\$2.20	\$1.75
8	2.90	2.20
10	3.10	2.40
15	4.40	3.40
20	5.75	4.40
25	6.75	5.00
30	8.00	6.00
35	9.50	7.00
40	11.00	8.00
50	13.50	10.00
60	14.00	10.50
75	14.50	11.00
100	18.00	14.50

Anchor Keys

GALVANIZED

Size No.	Each	Length Inches	For Anchor Weighing Pounds
1	\$.08	1 3/4	5 to 8
2	.11	2 1/2	10 to 20
3	.12	3 1/4	25 to 40
4	.18	4 1/2	50 to 60
5	.19	4 3/8	75 to 100
6	.24	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

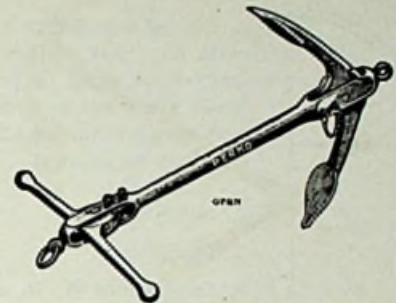


Fig. 226

Weight Pounds	Each	Length	Weight Pounds	Each	Length
6	\$ 3.60	19	30	\$16.00	34
10	6.00	23	35	19.00	36
15	8.50	28	45	24.00	38
20	11.00	30	55	29.00	41
25	13.50	33	76	39.00	44

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.

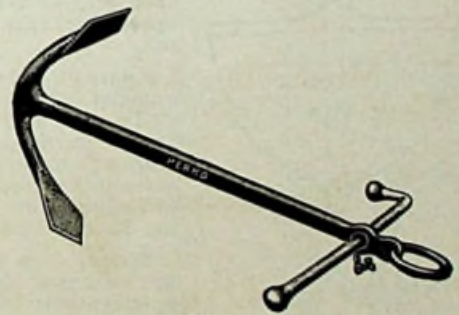


Fig. 236

Weight Pounds	Galv. Each	Length Overall Inches
15	\$ 6.00	29
25	7.50	36
35	10.50	40
50	15.00	43
60	18.00	44 1/2
75	22.50	46 1/2
100	30.00	50
125	37.50	52 1/2
150	45.00	59



Standard Boat Davits

GALVANIZED STEEL

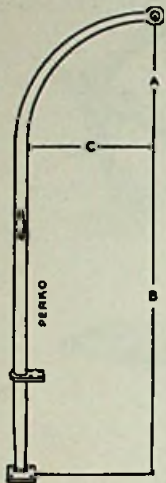


Fig. 934

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.

PRICES ON APPLICATION

Standard Anchor Davits

GALVANIZED STEEL

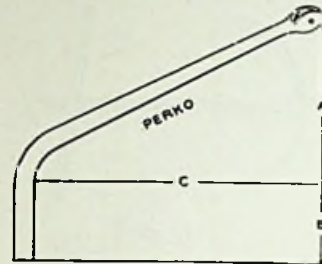


Fig. 936

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

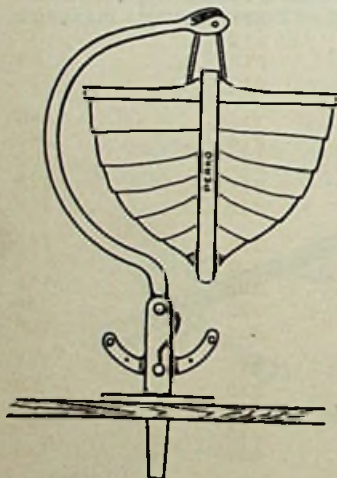


Fig. 935

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

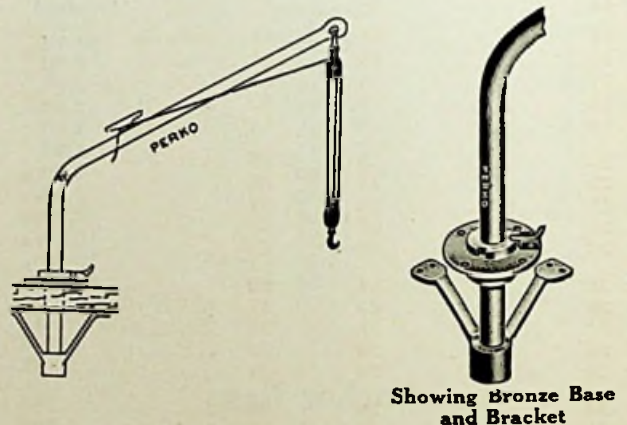


Fig. 937

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



INDEX OF FIGURE NUMBERS

Figure Number	Page	Figure Number	Page	Figure Number	Page	Figure Number	Page
0-1	4	45	162	110	142	175	33
0-2	5	46	34	111	142	176	33
0-4	6	47	34	112	18	177	47
0-5	6	48	29	113	18	178	46
0-6	5	49	14	114	112	179	48
0-8	7	50	14	115	112	180	48
0-9	7	51	144	116	112	181	114
0-10	4	52	144	117	112	182	114
0-21	23	53	144	118	112	183	114
0-22	23	54	144	119	111	184	54
0-23	23	55	144	120	122	185	115
0-24	25	56	144	121	53 and 98	186	115
0-25	25	57	32	122	117	187	115
0-26	25	58	144	123	117	188	115
0-27	27	59	36	124	84	189	119
0-28	27	60	36	125	35	190	119
0-29	27	61	30	126	35	191	
0-40	6	62	30	127	46	192	87
0-50	6	63	36	128	35	193	87
0-80	7	64	75	129	35	194	147
0-90	7	65	75	130	40	195	147
1	4	66	75	131	40	196	46
2		67	75	132		197	81
3	4	68	73	133		198	81
4	9	69	73	134	40	199	81
5	9	70	53	135	40	200	70
6	9	71	90	136	35	201	107
7	9	72	48	137	35	202	70
8	41	73	87	138	35	203	74
9	8	74	53	139	147	204	74
10	8	75	87	140	147	205	74
11	9	76		141	43	206	74
12	9	77		142	162	207	161
13	5	78	75	143	46	208	70
14	32	79	30	144	73	209	70
15	41	80	36	145	73	210	46
16	30	81	58	146	73	211	123
17	8	82	119	147	64	212	47
18	8	83	58	148	64	213	84
19	8	84		149	162	214	136
20	8	85		150	88	215	116
21	22	86	75	151	80	216	161
22	22	87	146	152	81	217	107
23	22	88	146	153	91	218	118
24	24	89	14	154	91	219	118
25	24	90	14	155	48	220	118
26	24	91	14	156	71	221	118
27	28	92	14	157	90	222	117
28	28	93	146	158	71	223	109
29	28	94	146	159	88	224	109
30	26	95	146	160	111	225	117
31	26	96	146	161	111	226	163
32	26	97	145	162	86	227	125
33	26	98	153	163	113	228	125
34	26	99	153	164	87	229	125
35	26	100	145	165	86	230	74
36	29	101	145	166		231	74
37	29	102	143	167	86	232	125
38	29	103	19	168	86	233	160
39	29	104	19	169	33	234	160
40	29	105	19	170	33	235	160
41	29	106	45	171	33	236	163
42	29	107	145	172	33	237	74
43	144	108	62	173	33	238	74
44	34	109	122	174	162	239	74



INDEX OF FIGURE NUMBERS

Figure Number	Page	Figure Number	Page	Figure Number	Page	Figure Number	Page
240	42	305	61	370	160	435	Booklet 66
241	42	306	61	371	97	436	Booklet 66
242	42	307	61	372	64	437	Booklet 66
243	125	308	56	373	140	438	Booklet 66
244	44	309		374	140	439	Booklet 66
245	42	310	61	375	18	440	Booklet 66
246	43	311	133	376	122	441	
247	43	312	35	377	52	442	Booklet 66
248	42	313	84	378	52	443	Booklet 66
249	45	314	126	379	117	444	110
250	45	315	126	380	117	445	161
251	45	316	47	381	47	446	115
252	45	317	90	382	47	447	92
253		318	46	383	52	448	92
254	44	319	136	384	12	449	124
255	44	320	100	385	59	450	56
256	47	321	100	386		451	57
257	44	322	75	387	59	452	57
258	44	323	83	388	73	453	139
259	45	324	83	389	54	454	58
260	45	325	48	390	128	455	56
261	45	326	46	391	128	456	65
262	44	327	103	392	128	457	65
263	44	328	98	393	128	458	65
264	44	329	84	394	128	459	49
265	79	330	84	395	129	460	58
266	43	331	96	396	129	461	139
267	42	332	75	397	154	462	Booklet 66
268	42	333	137	398	129	463	
269	44	334	140	399	51	464	Booklet 66
270	42	335	39	400		465	Booklet 66
271	47	336	40	401	63	466	127
272	42	337	41	402	32	467	127
273	73	338	126	403	32	468	127
274	38	339	126	404	51	469	127
275	88	340	41	405	52	470	19
276	40	341	107	406	124	471	Booklet 66
277	40	342	107	407	31	472	51
278	161	343	137	408	31	473	72
279	147	344	71	409	97	474	72
280	147	345	72	410	155	475	72
281	40	346	31	411	155	476	83
282	39	347	79	412	63	477	51
283	39	348	84	413	64	478	72
284	40	349	86	414	139	479	72
285	40	350	97	415	139	480	60
286	38	351	97	416	57	481	17
287	38	352	97	417	139	482	15
288	39	353	97	418	123	483	15
289	39	354	113	419	85	484	15
290	98	355	52	420	88	485	10
291	38	356	62	421	81	486	10
292	38	357	51	422	18	487	62
293	38	358	137	423	51	488	
294	59	359	143	424	53	489	
295	59	360	Booklet 66	425	51	490	11
296	59	361	Booklet 66	426	155	491	15
297	60	362	Booklet 66	427	43	492	16
298	98	363	Booklet 66	428	43	493	119
299	98	364	163	429	43	494	114
300	39	365	163	430	79	495	
301	39	366	156	431		496	17
302	43	367	81	432	135	497	53
303	115	368	80	433	135	498	15
304	56	369	80	434	91	499	106



INDEX OF FIGURE NUMBERS

Figure Number	Page	Figure Number	Page	Figure Number	Page	Figure Number	Page
500	130	565	19	629	99	694	Booklet 66
501	130	566		630	101	695	Booklet 66
502	12	567		631	100	696	Booklet 66
503	12	568	154	632	100	697	Booklet 66
504	13	569	154	633	83	698	Booklet 66
505	13	570	118	634	82	699	Booklet 66
506	18	571	118	635	118	700	Booklet 66
507		572	110	636	97	701	Booklet 66
508	15	573	32	637	97	702	Booklet 66
509		574	31	638	108	703	135
510	12	575	80	639	108	704	Booklet 66
511	113	576		640	108	705	Booklet 66
512	10	577	137	641	108	706	Booklet 66
513	43	578	145	642	108	707	Booklet 66
514	40	579	142	643	108	708	Booklet 66
515		580	142	644	108	709	135
516	56	581	88	645	109	710	Booklet 66
517	49	582	38	646	109	711	100
518	Booklet 66	583	110	647	106	712	100
519	Booklet 66	584	110	648	106	713	Booklet 66
520	159	585	142	649	106	714	78
521	18	586	140	650	106	715	96
522	130	587	39	651	106	716	96
523	130	588	38	652	106	717	52
524	70	589	46	653	96	718	52
525	72	590	16	654	96	719	52
526	85	591	16	655	79	720	69
527	85	592	57	656	138	721	69
528	85	593	142	657	92	722	69
529	60	594	143	658		723	70
530	63	595	159	659		724	71
531	161	596	5	660	93	725	71
532	21	596-A	5	661	93	726	134
533	21	597	11	662	85	727	134
534	63	598	11	663	95	728	134
535	10	599	143	664	95	729	134
536	10	600	15	665	119	730	135
537	16	601	15	666	119	731	135
538	17	602	17	667	119	732	124
539	114	603	17	668	119	733	38
540	115	604	45	669	89	734	101
541	118	605	57	670	89	735	38
542	115	606	11	671	99	736	38
543	114	607	114	672	99	737	92
544	110	608	113	673	99	738	136
545	109	609	138	674	94	739	53
546	111	610	138	675	94	740	53
547	110	611	139	676	94	741	107
548	61	612	156	677	94	742	103
549	64	613	156	678	94	743	107
550	78	614	116	679	98	744	82
551	160	615	116	680	138	745	52
552	160	616	116	681	69	746	52
553	58	617	116	682	66	747	51
554	58	618	131	683	66	748	51
555	58	619	131	684	66	749	51
556	Booklet 66	620	131	685	66	750	51
557	78	621	131	686	68	751	54
558	Booklet 66	622	129	687	74	752	54
559	11	623	129	688	74	753	54
560	81	624	129	689	56	754	54
561	13	625	133	690	Booklet 66	755	54
562	31	626	133	691	Booklet 66	756	54
563	13	627	99	692	Booklet 66	757	54
564	19	628	99	693		758	54

ALPHABETICAL INDEX

	Page		Page
B		C	
Bow Lights—		Cable—	
American Improved	24, 25	Electric	53, 54
and Bitts	12	Ignition	54
De-Lite, Class 2 and 3	6, 7, 13	Outlets	53
Large Size, Flat Top	26, 27	Straps	53, 98
Large Size, Turret Top	22, 23	Canoe Cleats	110
Old Style	8, 9	Cans—	
Streamline	13	Oil	46
Bow—		Sea Anchor	48
Chocks	111, 112	Canvas Sea Anchors	49
Plates	114	Cap Screws	135
Bowden—		Caps—	
Wire and Casing	97	Bread Breaker	48
Wire Clamps	97	Gas Tank	159
Boxes—		Capstans—Yacht	157
Stuffing	99, 100, 101	Cargo Hooks	139
Watertight Junction	50	Carriage Bolts	134
Braces—Rudder	107	Casing—	
Bracket Steerers	94	Bowden	97
Brackets—		Clamps	97
Axe	48	Catches—Cupboard	120
Bulkhead	72	Caulking—	
Control	96	Irons	133
Hatch	124	Mallets	133
Lamp	40	Centerboard Blocks	150, 155
Windshield	119	Chain—	
Brass Turnbuckles	129	Bell or Telegraph	88
Bread Breaker Caps	48	Deck Pipes	107
Bread Breakers	48	Leaders	88
Bridge Lights	36, 37	Plates	154
Bridle Blocks	149	Roller	94
Bridles	151	Shackles	126
Bronze Turnbuckles	154	Chart Cases	64
Bronze Yacht Blocks	148, 149, 150	Check Valves	73
Bulbs—Electric	21, 41	Chock Blocks	146, 147, 150
Bulkhead—		Chimneys	42
Controls	97	Chocks—	
Lanterns	34	Bevel Bow	111
Bullet Blocks	150	Bulwark Bow	111
Bulwark—		Bulwark Stern	111
Bow Chocks	111	Skene Bow	111
Stern Chocks	111	Skene Stern	111
Bunker Lamps	47	Straight Stern	111, 113
Buoy Rods	161	Streamline Bow	112
Buoys—		Streamline Stern	112
Mooring	160, 161	Choke Controls	97
Pickup	160	Clam Shell Ventilators	83
Steel Mooring	161	Clamps—	
Burners	42, 43, 44	Bowden Casing	97
Burners—Alcohol	79	Screw	137
Butt Hinges	122	Tiller Rope	137
Buttons—Door	120	Cleats—	
C		Automatic Jam	152
Cabin—		Awning	110
Door Hooks	121	Canoe	110
Fixtures	56, 57, 58	Fender	110
Lamps, Oil	35	Flag Pole	110
		Hollow	110
		Open Base	110
		Racing Jam	152
		Rigging	151
		Roller Jam	152
		Ship	113
		Square Base	110
		Streamline	112
		Clew Outhaul	150
		Clew Outhaul Slides	150
		Clips—Wire Rope	137
		Closets—Boat	76
		Clutch Control	95
		Coat and Hat Hooks	121
		Cocks—Sea	76
		Code Signal Lights	32
		Coleman Hooks	155
		Collars—	
		Rudder	105
		Shaft	102
		Combination Lights—	
		Lights	10
		Lights and Bitts	12
		De-Lite, Class 1	4
		Outboard	10, 11
		Streamline	10, 11
		Compasses	62, 64
		Connecting Links	136
		Connections—	
		Electric	51, 52
		Inlet	75
		Outlet	75
		Watertight	50, 51
		Connectors—Electric	51
		Continuous Hinge	123
		Control—	
		Cranks	97
		Rod	98
		Rod Sockets	98
		Wire Sockets	98
		Controls—	
		Bulkhead	97
		Dashboard Choke	97
		Remote	97
		Reverse Gear	95, 98
		Spark and Throttle	96, 98
		Throttle	96, 97, 98
		Cotter Pins	135
		Couplings—	
		Flexible	74
		Hose	75
		Moulding	125
		Shaft	103
		Crank Case Pumps	73
		Cranks—	
		Bell	88
		Control	97
		Cuddy Door Hinges	122
		Cupboard Catches	120

