

EXHIBIT A-2

# PERKO



**PERKINS MARINE**  
**LAMP & HARDWARE CORP.**  
1943 PITKIN AVENUE • BROOKLYN, N.Y.





# Perkins Marine Lamp And Hardware Corp.

(Incorporated 1917)

1943 Pitkin Ave., Brooklyn 7, N. Y.

157 Snediker Ave., Brooklyn 7, N. Y.

Manufacturers of

Running Lights, Searchlights, Binnacles, Steering Wheels, Stoves, Gear  
Pumps, 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. 115

1947



PERKO

REG. TRADE MARK

### Branch Sales Offices

51 FREMONT ST.  
SAN FRANCISCO 5, CAL.

P. O. BOX 34  
BOYNTON BEACH, FLA.

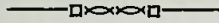
35 BROOKVALE ST.  
DORCHESTER 24, MASS.

2627 SO. FIGUEROA ST.  
LOS ANGELES 7, CAL.

1005 MAGAZINE ST.  
NEW ORLEANS 13, LA.

909 WESTERN AVE.  
SEATTLE 4, WASH.

## FOREWORD AND GENERAL INFORMATION



This catalog has been arranged for convenient reference by grouping the material according to its application in the marine field.

You will find illustrated herein a number of new items added to our fast growing line, also most of the items that were discontinued during the past war years.

Of course we continue our strictest rules of adherence to highest quality and finish, fastest possible delivery and cooperation with our numerous friends and customers throughout the world.

### PRICES AND TERMS

Our costs are subject to change due to causes beyond our control. The prices listed herein are only intended for guidance of our jobbers and do not necessarily establish resale prices. Applicable governmental regulations, shipping costs and other complications must be considered in arriving at a fair price. All prices are subject to change without notice and are 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 defects, 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 handling and refinishing 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.





LOUIS E. PERKINS  
SECRETARY AND  
GENERAL MANAGER



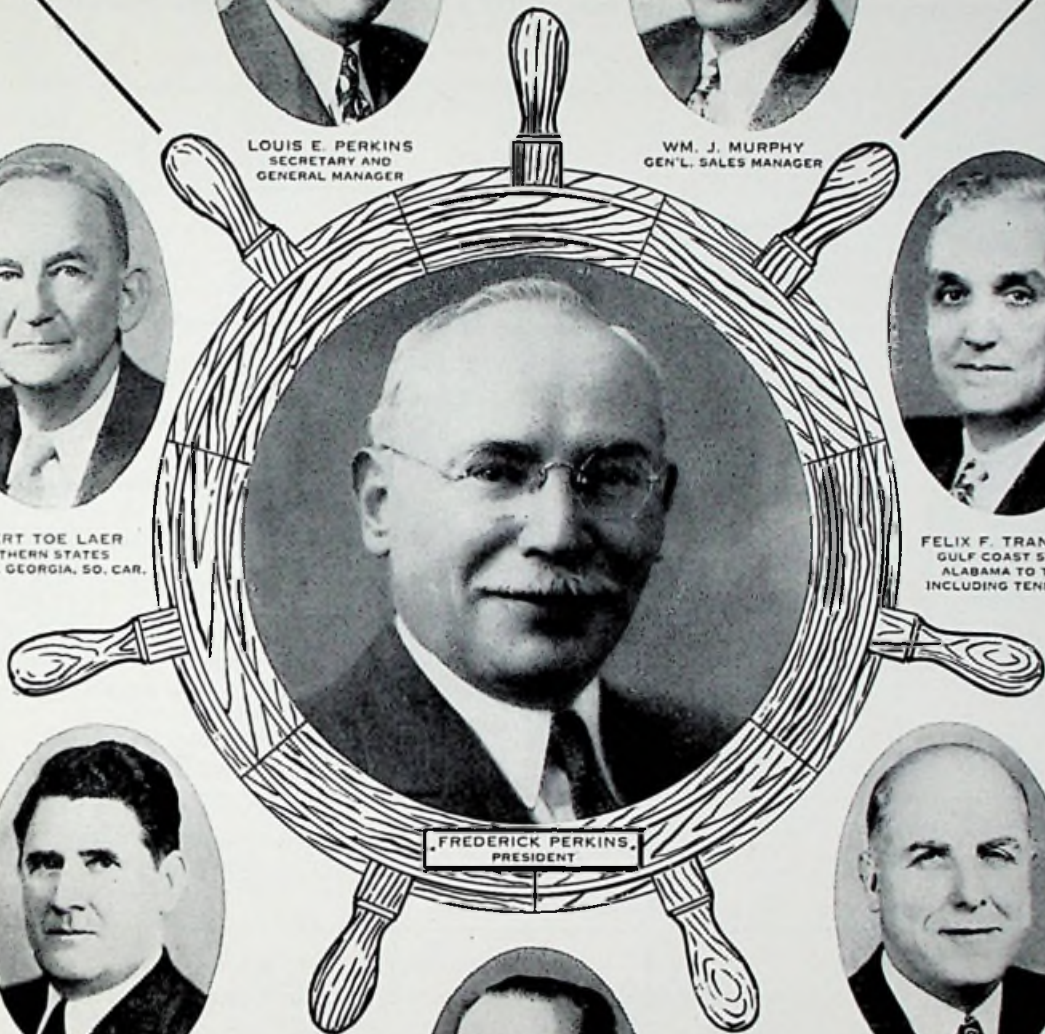
WM. J. MURPHY  
GEN'L. SALES MANAGER



ROBERT TOE LAER  
SOUTHERN STATES  
FLORIDA, GEORGIA, SO. CAR.



FELIX F. TRANCHINA  
GULF COAST STATES  
ALABAMA TO TEXAS  
INCLUDING TENNESSEE



FREDERICK PERKINS,  
PRESIDENT



JOHN B. MERIFIELD  
PACIFIC COAST TERRITORY  
NORTHERN DIVISION  
WASHINGTON, OREGON,  
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BRITISH COLUMBIA,  
ALBERTA



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SOUTHERN DIVISION  
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NEW MEXICO, HAWAII



WM. H. DEVIN  
NEW ENGLAND STATES



**UNITED STATES COAST GUARD**  
**MOTORBOAT REGISTRATIONS & NAVIGATION FINES SECTION**

**Requirements for Motorboats NOT in Commercial Service**

EQUIPMENT	CLASS A 0' to 15' 11"	CLASS 1 16' to 25' 11"	CLASS 2 26' to 39' 11"	CLASS 3 40' to 65'
COMBINATION LIGHT	1—in fore part of boat showing red to port and green to starboard from right ahead to 2 Points abaft the beam. Visible at least 1 mile.			
PORT SIDE LIGHT			1—on port side, properly screened to show red from right ahead to 2 points abaft the beam, visible at least 1 mile.	
STARBOARD SIDE LIGHT			1—on starboard side, properly screened to show green from right ahead to 2 points abaft the beam. Visible at least 1 mile.	
STERN LIGHT	1—bright white light aft showing all around the horizon. Visible at least 2 miles.			
BOW LIGHT			1—bright white light in fore part of boat showing from right ahead to 2 points abaft the beam on both sides. Visible at least 2 miles.	
WHISTLE		1—hand, mouth, or power-operated. Audible at least 1/2 mile.	1—hand or power-operated. Audible at least 1 mile.	1—power-operated. Audible at least 1 mile.
BELL			1—which produces, when struck, a clear bell-like tone of full round characteristics.	
LIFESAVING DEVICES	1—life preserver or ring buoy or buoyant cushion for each person on board. (Approved.)			1—life preserver or ring buoy for each person on board. (Approv'd).
FLAME ARRESTORS	1—on each carburetor of all gasoline engines installed after April 25, 1940.			
VENTILATION	At least 2 ventilators with cowls or equivalent capable of removing gases from the bilges in engine and fuel tank compartments of boats constructed or decked after April 25, 1940, using gasoline or other fuel of a flashpoint less than 110° Fahrenheit.			
FIRE EXTINGUISHERS	(1) 1-qt. carbon tetrachloride or (1) 1 1/4 gallon or (L) 4-lb. CO <sub>2</sub> extinguisher.		(2) 1-qt. carbon tet. or (2) 1 1/4 gal. foam or (2) 4-lb. CO <sub>2</sub> extinguishers.	(3) 1-qt. carbon tet. or (3) 1 1/4 gal. foam or (3) 4-lb. CO <sub>2</sub> extinguishers.



## "Perko" De-Lite Combination Lights

TURRET TOP—FRONT DOOR

FOR CLASS ONE BOATS—16 FEET AND OVER AND LESS THAN 26 FEET IN LENGTH

OIL AND ELECTRIC, DOUBLE CONTACT

Green Lens for Starboard, Red Lens for Port

Height, less ring, 9 3/8 inches

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

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

Weight, 3 3/8 pounds



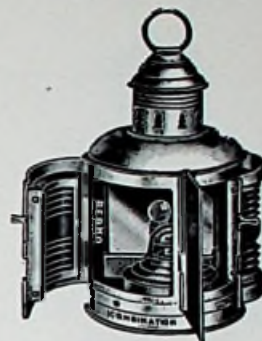
(Closed)

Galvanized  
Each  
\$9.75

Fig. 0-1

Polished  
Brass  
Each  
\$11.00

Chromium  
Plated  
Each  
\$13.75



(Opened)

## De-Lite Combination Lights

FLAT TOP—FRONT DOOR

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

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, 3 pounds



(Closed)

Galvanized  
Each  
\$9.75

Fig. 0-10

Polished  
Brass  
Each  
\$11.00

Chromium  
Plated  
Each  
\$13.75



(Opened)

## Old Style Combination Lights

TURRET TOP—BOTTOM OPENING

FOR CLASS 1 BOATS

WITH RED AND GREEN LENSES

Height less Ring, 9 inches.

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

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

Weight, 2 3/4 pounds.



Fig. 1

	Galvanized Each	Polished Brass Each
Oil or Elec. Only	\$7.50	\$8.75
Oil and Electric	8.25	9.50
Chromium plated finish, add \$2.50 each to Pol. Brass price.		
Electric Socket is Double Contact.		

## Old Style Combination Lights

FLAT TOP—BOTTOM OPENING

FOR CLASS 1 BOATS

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

WITH RED AND GREEN LENSES

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

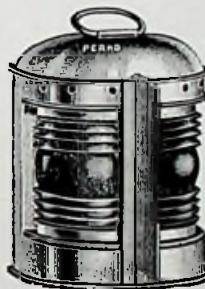


Fig. 3

	Galvanized Each	Polished Brass Each	Chromium Plated Each
	\$7.50	\$8.75	\$11.50

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$1.25 EACH

### SPARE PARTS

	Each
Lenses, fig. 259, Class 1 Combination	\$1.50
Oil Founts, fig. 582, Brass, for fig. 01	1.25
Oil Founts, fig. 733, Brass, for fig. 1	1.25
Oil and Electric Founts, fig. 733, Brass, for fig. 1	3.00
Oil Burners, fig. 246, No. 0, Brass	.25
Oil Wicks, fig. 302 No. 0	.04
Electric Sockets, Double Contact fig. 276	.60
Electric Sockets, Medium Screw fig. 222	.60



**"Perko" De-Lite Anchor Lights**

TURRET TOP—BOLTED GUARDS—FOR CLASSES 1, 2 AND 3 BOATS  
 JUNIOR SENIOR



Fig. 0-2



Fig. 735



Fig. 0-6



Fig. 736

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

OIL OR ELECTRIC ONLY

Galv. Each	Polished Brass Each	Chromium Plated Each
\$6.00	\$7.25	\$10.00

COMB. OIL AND ELECTRIC, WITH FIG. 735 FOUNT

Galv. Each	Polished Brass Each	Chromium Plated Each
\$6.50	\$7.75	\$10.50

With Red, Green, Blue or Amber Lens add \$1.65 each.

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	3

OIL OR ELECTRIC ONLY

Galv. Each	Polished Brass Each	Chromium Plated Each
\$7.50	\$8.75	\$11.50

COMB. OIL AND ELECTRIC, WITH FIG. 736 FOUNT

Galv. Each	Polished Brass Each	Chromium Plated Each
\$8.00	\$9.25	\$12.00

With Red, Green, Blue, or Amber Lens add \$2.00 each.  
 With Hinged Bottom add \$ .65 each.

FLAT TOP—BOLTED GUARDS—FOR CLASSES 1, 2 AND 3 BOATS  
 ELECTRIC ONLY—DOUBLE CONTACT SOCKETS

JUNIOR



Fig. 11

Height Less Ring Inches	Diam. Base Inches	Size of Lens Inches	Weight Each Pounds
6	4 1/2	3 1/8 x 3 1/8	1 1/2

Galv. Each	Polished Brass Each	Chromium Plated Each
\$6.00	\$7.25	\$10.00

With Red, Green, Blue, or Amber Lens add \$1.65 each.

SENIOR



Fig. 12

Height Less Ring Inches	Diam. Base Inches	Size of Lens Inches	Weight Each Pounds
9	5 3/8	4 1/4 x 4	2 1/2

Galv. Each	Polished Brass Each	Chromium Plated Each
\$7.50	\$8.75	\$11.50

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

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$1.25 EACH

SPARE PARTS

	Each
Lenses, fig. 261, Clear, for figs. 02 and 11.....	\$1.50
Lenses, fig. 261, Clear, for figs. 06 and 12.....	2.00
Oil Founts, fig. 287, Brass, for fig. 02.....	1.25
Oil Founts, fig. 286, Brass, for fig. 06.....	1.25
Oil Burners, fig. 246, No. 0, Brass, for fig. 02.....	.25
Oil Burners, fig. 246, No. 1, Brass, for fig. 06.....	.30
Other parts, see page 5	



## "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, DOUBLE CONTACT

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

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

Fig. 0-4

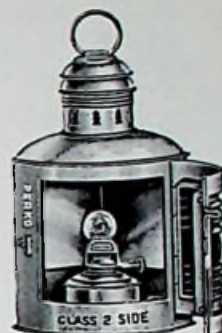


(Closed)

Galvanized  
Per Pair  
**\$17.00**

Polished  
Brass  
Per Pair  
**\$19.50**

Chromium  
Plated  
Per Pair  
**\$25.00**



(Opened)

## "Perko" De-Lite Bow Lights

TURRET TOP

CLASS 2—OIL AND ELECTRIC, DOUBLE CONTACT

Height, less ring, 10½ inches  
Size of lens, 4¼ inches x 6¾ inches  
Measurements of base, 5 inches x 5½ inches  
Weight, each, 3 pounds

Fig. 0-5



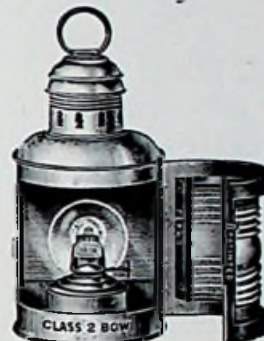
(Closed)

With clear lens  
With colored lens

Galvanized  
Each  
**\$8.50**  
10.00

Polished  
Brass  
Each  
**\$9.75**  
11.25

Chromium  
Plated  
Each  
**\$12.50**  
14.00



(Opened)

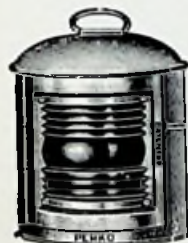
## "Perko" De-Lite Side Lights

FLAT TOP—CLASS 2

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Height, less ring, 7¾ inches  
Measurements of base, 5½ inches x 5½ inches  
Size of lens, 4¼ inches x 4¾ inches  
Weight, per pair, 5½ pounds

Fig. 0-40



(Closed)

Galvanized  
Per Pair  
**\$17.00**

Polished  
Brass  
Per Pair  
**\$19.50**

Chromium  
Plated  
Per Pair  
**\$25.00**



(Opened)

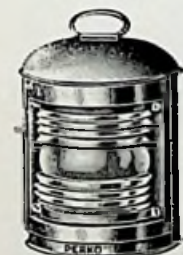
## "Perko" De-Lite Bow Lights

FLAT TOP—CLASS 2

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Height, less ring, 7¾ inches  
Measurements of base, 5 inches x 5½ inches  
Size of lens, 4¼ inches x 6¾ inches  
Weight, each, 2¾ pounds

Fig. 0-50



(Closed)

With clear lens  
With colored lens

Galvanized  
Each  
**\$8.50**  
10.00

Polished  
Brass  
Each  
**\$9.75**  
11.25

Chromium  
Plated  
Each  
**\$12.50**  
14.00



(Opened)

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$1.25 EACH

### SPARE PARTS

Lenses, fig. 259 Class 2, for figs. 04 and 0-40.....	Each	<b>\$2.10</b>
Lenses, fig. 260 Class 2, for figs. 0-5 and 0-50.....	Each	<b>2.10</b>
Oil Founts, fig. 582, Brass, for figs. 0-4 and 0-5.....	Each	<b>1.25</b>
Oil Burners, fig. 246 No. 1, Brass, for figs. 0-4 and 0-5.....	Each	<b>.30</b>
Oil Wicks, fig. 302 No. 1.....	Each	<b>.05</b>
Electric Sockets, Double Contact fig. 276.....	Each	<b>.60</b>
Electric Sockets, Medium Screw fig. 222.....	Each	<b>.60</b>





**“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, DOUBLE CONTACT

Size of lens, 5 7/8 inches x 5 7/8 inches  
Height, less rings, 12 1/4 inches  
Measurements of base, 5 5/8 inches x 5 5/8 inches  
Weight, per pair, 8 pounds

Fig. 0-8

Galvanized Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
\$19.50	\$22.50	\$29.00



(Closed)



(Opened)

**“Perko” De-Lite Bow Lights**

TURRET TOP

CLASS 3—OIL AND ELECTRIC, DOUBLE CONTACT

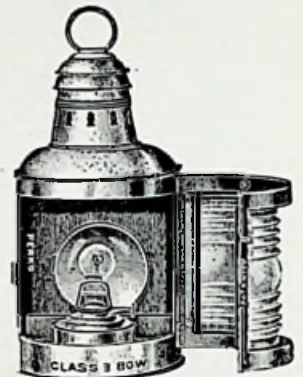
Size of lens, 5 7/8 inches x 7 1/8 inches  
Height, less ring, 12 1/4 inches  
Measurements of base, 5 1/2 inches x 6 1/8 inches  
Weight, each, 4 pounds

Fig. 0-9

	Galvanized Each	Polished Brass Each	Chromium Plated Each
With clear lens	\$9.75	\$11.25	\$14.50
With colored lens	11.75	13.25	16.50



(Closed)



(Opened)

**“Perko” De-Lite Side Lights**

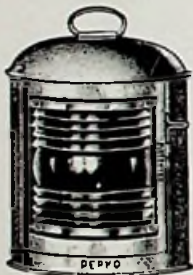
FLAT TOP—CLASS 3

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Size of lens, 5 7/8 inches x 5 7/8 inches  
Height, less ring, 8 3/4 inches  
Measurements of base, 5 5/8 inches x 5 5/8 inches  
Weight, per pair, 7 pounds

Fig. 0-80

Galvanized Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
\$19.50	\$22.50	\$29.00



(Closed)



(Opened)

**“Perko” De-Lite Bow Lights**

FLAT TOP—CLASS 3

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

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

Fig. 0-90

	Galvanized Each	Polished Brass Each	Chromium Plated Each
With clear lens	\$9.75	\$11.25	\$14.50
With colored lens	11.75	13.25	16.50



(Closed)



(Opened)

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$1.25 EACH

SPARE PARTS

Lenses, fig. 259 Class 3, for figs. 0-8 and 0-80.....	Each	\$2.60
Lenses, fig. 260 Class 3, for figs. 0-9 and 0-90.....	Each	2.60
Oil Founts, fig. 582, Brass, for figs. 0-8 and 0-9.....	Each	1.25
Oil Burners, fig. 246 No. 1, Brass, for figs. 0-8 and 0-9.....	Each	.30
Oil Wicks, fig. 302 No. 1.....	Each	.05
Electric Sockets, Double Contact fig. 276.....	Each	.60
Electric Sockets, Medium Screw fig. 222.....	Each	.60



## Old Style Class 2 Side Lights

BOTTOM OPENING—SPRING FOUNT  
FOR BOATS 26 TO 39 FEET LONG INCLUSIVE



Size of Lenses, 4¼x4¼ inches  
Extreme Height, 10½ inches  
Size of Base, 4¾x5½ inches  
Weight, per pair, 5½ lbs.

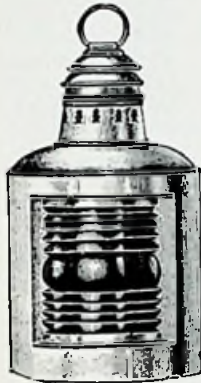
	Galvanized Brass Per Pair	Polished Brass Per Pair
Oil or Elec. only	\$12.00	\$14.00
Oil and Electric	13.00	15.00

Chromium plated finish, add \$6.00 per pair to Polished Brass price.

Fig. 17

## Old Style Class 3 Side Lights

BOTTOM OPENING—SPRING FOUNT  
FOR BOATS 40 TO 65 FEET LONG INCLUSIVE



Size of Lenses, 5⅝x5⅝ inches  
Extreme Height, 12½ inches  
Size of Base, 5x6¼ inches  
Weight, per pair, 7½ lbs.

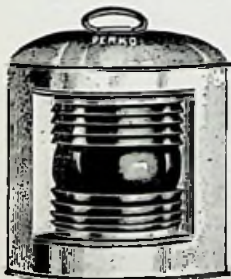
	Galvanized Per Pair	Polished Brass Per Pair
Oil or Elec. Only	\$15.00	\$17.50
Oil and Electric	16.50	19.00

Chromium plated finish, add \$5.50 per pair to Polished Brass price.

Fig. 19

## Old Style Flat Top Side Lights

CLASS 2 AND 3  
BOTTOM OPENING—SPRING FOUNT  
ELECTRIC ONLY—DOUBLE CONTACT SOCKET



CLASS 2  
Size of Lenses, 4¼x4¼ in.  
Extreme Height, 7¼ in.  
Size of Base, 4¾x5½ in.  
Weight, per pair, 5 lbs.

CLASS 3  
Size of Lenses, 5⅝x5⅝ in.  
Extreme Height, 8½ in.  
Size of Base, 5x6¼ in.  
Weight, per pair, 7 lbs.

Fig. 4

Class	Galvanized Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
2	\$12.00	\$14.00	\$20.00
3	15.00	17.50	23.00

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$1.25 EACH.

ALL LIGHTS ON THIS PAGE WITH HINGED BOTTOMS ADD \$ .65 EACH.

### SPARE PARTS

Oil and Electric Founts fig. 736  
Oil Founts, fig. 286  
Lenses, figs. 259 and 260

## Old Style Class 2 Bow Lights

BOTTOM OPENING—SPRING FOUNT  
FOR BOATS 26 TO 39 FEET LONG INCLUSIVE



Size of Lens, 4¼x6⅝ inches  
Extreme Height, 10½ inches  
Size of Base 4¾x5 inches  
Weight, each, 3 lbs.

WITH CLEAR LENS

	Galvanized Each	Polished Brass Each
Oil or Elec. Only	\$6.00	\$7.00
Oil and Electric	6.50	7.50

Chromium plated finish, add \$3.00 each to Polished Brass price.

With Red, Green, or Blue Lens  
Add \$1.65 Each.

Fig. 18

## Old Style Class 3 Bow Lights

BOTTOM OPENING—SPRING FOUNT  
FOR BOATS 40 TO 65 FEET LONG INCLUSIVE



Size of Lens, 5⅝x7⅝ inches  
Extreme Height, 12½ inches  
Size of Base, 5½x6¼ inches  
Weight, each, 3½ lbs.

WITH CLEAR LENS

	Galvanized Each	Polished Brass Each
Oil or Elec. Only	\$7.50	\$8.75
Oil and Electric	8.25	9.50

Chromium plated finish, add \$2.75 each to Polished Brass price.

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

Fig. 20

## Old Style Flat Top Bow Lights

CLASS 2 AND 3  
BOTTOM OPENING—SPRING FOUNT  
ELECTRIC ONLY—DOUBLE CONTACT SOCKET



CLASS 2  
Size of Lens, 4¼x6⅝ inches  
Extreme Height, 7¼ inches  
Size of Base, 4¾x5 inches  
Weight, each, 2½ lbs.

CLASS 3  
Size of Lens, 5⅝x7⅝ inches  
Extreme Height, 8½ inches  
Size of Base, 5½x6¼ inches  
Weight, each, 3¼ lbs.

Fig. 5

Class	Galvanized Each	Polished Brass Each	Chromium Plated Each
2	\$6.00	\$7.00	\$10.00
3	7.50	8.75	11.50

Class 2 with Red, Green, or Blue lens add \$1.65 each.  
Class 3 with Red, Green, or Blue lens add \$2.00 each.

Electric Founts, figs. 291 or 292  
Electric D.C. Adapters fig. 355  
Oil Burners and Wicks figs. 246 and 302 No. 1



### Sail Boat Side Lights SMALL SIZE



Designed for Sail Boats where small oil burning side lights are desirable.

Electric socket is bayonet double contact.

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

Fig. 69

	Galvanized Per Pair	Pol. Brass Per Pair
Oil or Electric Only.....	\$12.00	\$14.50
Oil and Electric.....	13.00	15.50
Electric Only—Flat Top .....	12.00	14.50

Spare Lenses, see Fig. 259, Class 1.

Spare Founts, see Figs. 287, 293 or 735.

Spare Burners and Wicks, see Figs. 246 and 302 No. 0.

### "Sport Kit" Lights FLASHLIGHT BATTERY TYPE ALL BRASS—NICKEL PLATED



Fig. 1142



Fig. 1143

Designed for small craft such as rowboats, canoes, dinghys, etc., when an outboard motor is attached. Lights are required by law in such cases.

Two regular flashlight batteries are used in each light. Clamps are cast bronze, and can be quickly detached or attached to vertical or horizontal mountings up to 1 3/8 inches thick.

The combination bow light head is full size and same as our Fig. 435.

The stern light has clear fresnel ball globe and two piece stem. Height can be reduced by removing one piece.

Height Overall Inches	Height Overall Inches	Diam. Stem Inches	Size Lens Inches	Size Globe Inches	Weight Each Pounds
Fig. 1142	Fig. 1143		Fig. 1142	Fig. 1143	
13 3/4	20	1/8	2 1/8 x 3	1 3/8	1

Fig. 1142 Each \$8.25

Fig. 1143 Each \$7.50

Extra Bulbs Each \$ .20

Price includes one bulb in each light, no batteries.



Fig. 68

### Battery Marker Light

COPPER CASE—WATERTIGHT WITH TURN SWITCH AND BULB

Uses ordinary lantern battery such as Eveready No. 409 or equal. Bulb is Mazda No. 502.

Without Battery Each	With Battery Each	Height Overall Inches	Diameter at Base Inches
\$13.00	\$14.50	9	4 3/8

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

Spare globes, see fig. 250.  
Spare batteries \$1.30 each.  
Spare bulbs \$ .28 each.

### Navy or Life Boat Lantern

OIL BURNING—APPROVED

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

With clear globe..... \$8.50  
With colored globe..... 10.50  
Colored globes are red, green or blue.  
With electric adapter fig. 292, add \$1.25 each.

#### SPARE PARTS

Globe fig. 262.  
Burner fig. 246, size 1.  
Wick fig. 302, size 1.  
Fount fig. 286.



Fig. 49

### Engineer's Hand Lantern

OIL BURNING

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

With clear globe..... \$6.50  
With colored globe..... 8.25

Colored globes are red, green or blue.  
Brass founts only, \$1.25 each.  
Spares Parts — Burner fig. 246, No. 0; Globe fig. 263.



Fig. 50

### Bulkhead Lantern WITH REMOVABLE GLASSES OIL BURNING

Front Inches	Side Inches	Height Overall Inches
9 x 13	7 3/4 x 13	16

Galvanized Each \$23.00  
Polished Brass Each \$31.50  
Glasses Only Each \$1.00

Brass fount only, with burner, wick and chimney, \$6.00 each.

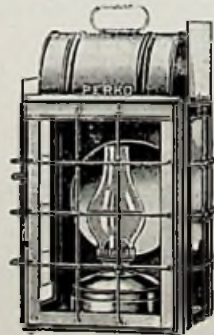


Fig. 46



## Royal Combination Lights

GALVANIZED IRON AND BRASS  
ELECTRIC ONLY  
FOR CLASSES A AND 1 BOATS

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



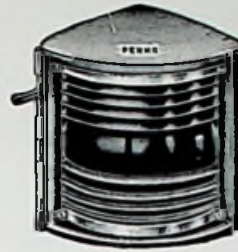
Fig. 89

Height Inches	Width Inches	Size Lens Inches	Weight Lbs.
3 3/4	4 1/4	3 3/8 x 3 5/8	1 1/4
		Polished Brass Each	\$5.50
		Chromium Plated Each	\$6.50
		Chromium Plated Each	\$8.75

Spare Lenses, see Fig. 259, Cl. 1.

## De-Lite Side Lights

WITH FRONT DOORS  
FOR CLASSES 2 AND 3 BOATS  
CAST BRONZE



Closed

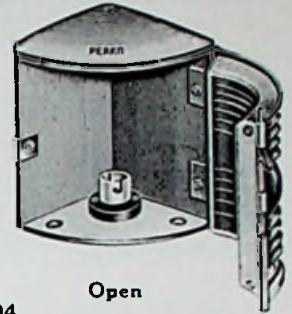


Fig. 504

Open

A quick change of bulb or lens is simple. 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 medium screw sockets.

## Royal Side Lights

ELECTRIC ONLY  
FOR CLASSES 1, 2 AND 3 BOATS

Same construction as above.



Fig. 91

Class	Height Inches	Size Lens Inches	Weight per Pair Lbs.
Class 1	4 1/4	3 3/8 x 3 5/8	1 3/4
Class 2	5	4 1/4 x 4 3/4	2
Class 3	6	5 1/8 x 5 1/8	3
		Pol. Galv. Brass	Chrom. Plated
		Per Pair	Per Pair
Class 1	\$8.00	\$10.00	\$14.50
Class 2	8.50	10.50	15.00
Class 3	10.00	12.00	16.50

Spare Lenses, see Fig. 259.

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 1/8 x 5 1/8	8
		Polished Bronze Per Pair	Chromium Plated Per Pair	Spare Lenses Each
Class 2	\$21.00	\$25.50	\$2.10	\$ .80
Class 3	25.50	30.00	2.60	.80

With medium screw sockets, add \$2.50 per pair.

Double contact sockets furnished unless otherwise specified

With clear lens, Class 2 and 3, add \$1.25 per pair.

## Royal Bow Lights

ELECTRIC ONLY  
FOR CLASSES 1, 2 AND 3 BOATS

Same construction as above.



Fig. 92

Class	Height Inches	Size Lens Inches	Weight Each Lbs.
Class 1	4 1/4	3 3/8 x 5 3/8	1
Class 2	5	4 1/4 x 6 3/8	1 1/2
Class 3	6	5 1/8 x 7 1/8	2
		Pol. Galv. Brass	Chrom. Plated
		Each Each	Each Each
Class 1	\$4.00	\$5.00	\$ 7.25
Class 2	4.25	5.25	7.50
Class 3	5.00	6.00	8.25

Spare Lenses, see Fig. 260.

## De-Lite Bow Lights

WITH FRONT DOORS  
FOR CLASSES 2 AND 3 BOATS  
CAST BRONZE



Fig. 505

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

Class	Height Inches	Width Inches	Lens Inches	Weight Lbs.
2	5 1/2	5 1/2	4 1/4 x 6 3/8	3 1/4
3	6 1/2	6	5 1/8 x 7 1/8	4 1/4
		Polished Bronze Each	Chromium Plated Each	Spare Lenses Each
Class 2	\$10.50	\$12.75	\$2.10	\$ .80
Class 3	12.75	15.00	2.60	.80

With medium screw sockets, add \$1.25 Each.  
Double contact sockets furnished unless otherwise specified

With Red or Green Lens, Class 2, add \$1.65 Each.  
With Red or Green Lens, Class 3, add \$2.00 Each.

## Royal Anchor Lights

ELECTRIC ONLY  
FOR CLASS 1, 2 AND 3 BOATS



Fig. 90

	Height Inches	Size Lens Inches	Weight Each Lbs.
Junior	4 1/2	3 3/8 x 3 3/8	1 1/4
Senior	5 1/2	4 1/4 x 4	2
		Galv. Brass	Chrom. Plated
		Each Each	Each Each
Junior	\$4.00	\$5.25	\$7.50
Senior	5.50	7.00	9.25

Spare Lenses, see Fig. 261.

Above lights cannot be equipped with medium screw sockets

Spare Brackets, see Fig. 25.

Spare Electric Socket Holders complete with socket. \$1.00 each.



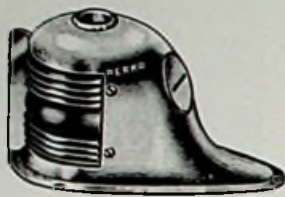


## COMBINATION LIGHTS—ELECTRIC

FOR OUTBOARD MOTOR BOATS AND SMALL RUNABOUTS

### Lightweight Streamline Pattern

WITH REBULBING FEATURE  
HEAVY GAUGE PRESSED BRASS



Rear view showing method of changing bulb

Fig. 1140

Furnished complete with red and green fresnel lenses and double contact socket.

Height Inches	Base Inches	Lens Inches	Flagpole Socket Inches	Weight Pounds
3 1/4	3 3/4 x 6 1/4	2 1/8 x 3	3/4	1
Polished Brass Each	Chromium Plated Each	Spare Lenses Each	Rebulbing Feature Only Each	
\$6.00	\$7.25	\$1.00	\$1.65	

WITHOUT REBULBING FEATURE  
AND FLAG POLE SOCKET

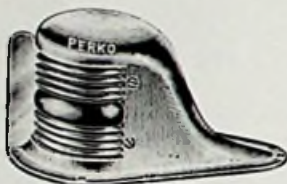


Fig. 1140-A

With red and green fresnel lenses and double contact socket.

Dimensions same as Fig. 1140 above.

Bright dipped brass finish only.

\$4.50 Each

### Streamline Pattern

WITH REBULBING FEATURE  
CAST BRONZE



Rear view showing method of changing bulb

Fig. 598

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.

No.	Height Inches	Base Inches	Lens Inches	Flagpole Socket Inch	Weight Lbs.
1	3 1/8	3 7/8 x 6 1/4	2 1/8 x 3	3/4	2
2	3 3/4	4 1/8 x 8	2 1/8 x 3	3/4	2 1/2
3	4 3/8	5 1/2 x 8 3/4	3 1/8 x 3 3/8	1	4 3/4
No.	Polished Brass Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each	
1	\$10.50	\$12.00	\$1.00	\$ .35	
2	12.50	14.00	1.00	.35	
3	15.75	18.75	1.50	.35	

### Lightweight Type

FOR LARGE CLASS 1 MOTORBOATS  
PRESSED BRASS

### Wrought Brass Type



Fig. 485  
For Permanent Mounting

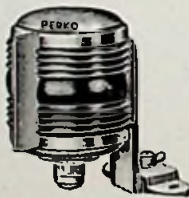


Fig. 486  
For Temporary Mounting

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

Fig.	Height Overall Inches	Diam. Body Inches	Size Lens Inches	Weight Lbs.	
485	4 1/2	2 1/2	2 1/8 x 3	3/4	
486	4	2 1/2	2 1/8 x 3	1	
Fig.	Polished Brass Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each	Spare Brackets Each
485	\$4.25	\$5.50	\$1.00	\$ .70	
486	5.00	6.25	1.00	1.00	\$ .65

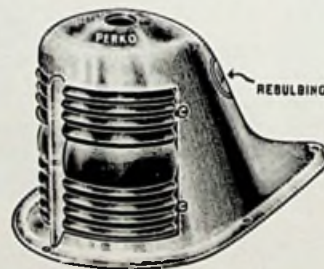


Fig. 1141

Contains our regular watertight rebulbing feature as illustrated with Fig. 598.

Furnished with red and green fresnel lenses and double contact electric socket. With flag pole socket in top.

Height Inches	Base Inches	Lens Inches	Flagpole Socket Inches	Weight Pounds	
5 1/8	5 7/8 x 9 1/2	4 1/4 x 3 1/8	1	2	
	Plain Brass Each	Polished Brass Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each
	\$9.75	\$10.50	\$12.50	\$2.00	\$ .35

Plain brass finish is bright dipped.



## Streamline Side Lights

CAST BRONZE

CLASSES 2 AND 3—ELECTRIC

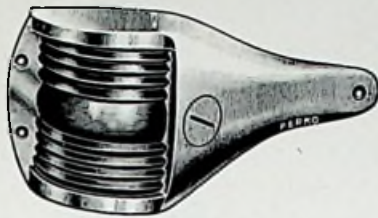


Fig. 563

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

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

Class	Height Inches	Length Inches	Size Lens Inches	Weight Per Pair Lbs.
2	4 3/4	10 1/8	4 1/4 x 4 3/4	5 1/2
3	6	10 1/2	5 3/16 x 5 9/16	7 1/2
	Polished Bronze Per Pair	Chromium Plated Per Pair	Spare Lenses Each	Spare Sockets Each
Class				
2	\$19.00	\$23.00	\$2.10	\$ .35
3	28.00	33.00	2.60	.35

## Lightweight Streamline Side Lights

PRESSED BRASS

CLASS 2—ELECTRIC



Fig. 1138

Design is gracefully streamlined and quality is up to our usual high standard.

Contains our patented swivel type waterproof rebulbing feature, no screws to remove.

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

Extreme Height Inches	Extreme Length Inches	Size Lens Inches	Weight Per Pair Pounds
6 3/8	9 5/8	4 1/4 x 4 3/4	3 1/4
Plain Brass Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair	Spare Lenses Each
\$13.75	\$15.00	\$19.00	\$2.10
Spare Sockets Each \$ .35			

Plain brass finish is bright dipped.

## Streamline Bow Lights

CAST BRONZE

CLASSES 2 AND 3—ELECTRIC

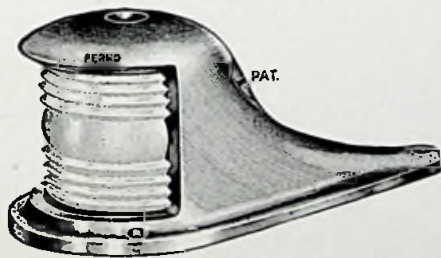


Fig. 561

Furnished with clear fresnel lens and double contact electric socket.

Class	Height Inches	Base Inches	Lens Inches	Weight Pounds	Flagpole Socket Inches
2	5 1/4	5 3/4 x 11 1/2	4 1/4 x 6 3/8	7	1
3	6 3/8	6 5/8 x 13	5 3/16 x 7 1/8	8 3/4	1
	Polished Bronze Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each	
Class					
2	\$17.00	\$21.00	\$2.10	\$ .35	
3	24.00	29.00	2.60	.35	

## Lightweight Streamline Bow Lights

PRESSED BRASS

CLASS 2—ELECTRIC

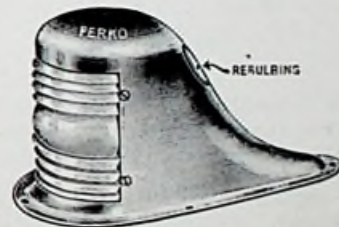


Fig. 1139

A very attractive running mate for Fig. 1138 above. Containing our swivel type waterproof rebulbing feature, no screws to remove.

Furnished with clear fresnel lens and double contact electric socket.

A flag pole socket in top if required.

Height Inches	Base Inches	Lens Inches	Flagpole Socket Inches	Weight Pounds
5 1/8	5 3/4 x 9 1/2	4 1/4 x 6 3/8	1	2
Plain Brass Each	Polished Brass Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each
\$9.00	\$9.75	\$11.75	\$2.10	\$ .35

Plain brass finish is bright dipped.

With Flag Pole Socket add \$ .75 each.

Furnished without Flag Pole Socket unless otherwise specified.





**Improved Pole Light Assembly**

2½ OR 3 INCH GLOBE, FIG. 250 OR 251  
 COMPLETE WITH FLAG POLE SOCKET AND  
 ELECTRIC CONNECTIONS IN POLE AND SOCKET  
 HOLLOW MAHOGANY POLE  
 FOUR COATS VARNISH—HAND RUBBED



Fig. 531

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.

Pole may remain in socket at all times, no switch necessary. Female part of connector in base of pole has four holes, two for on position, two for off position. Male part of connector in flag pole socket has two prongs (no springs). To light, loosen thumb screw, lift pole, give half turn and reset. To disconnect, reverse operation.

Globe will accommodate bulb up to 50 C. P.

Length Pole Inches	Polished Brass Each	Chromium Plated Each	Diam. Base of Pole Inches
24	\$9.75	\$11.50	1¼
30	10.00	11.75	1¼
36	10.25	12.00	1¼
48	11.25	13.00	1¼
Spare clear globes (2½ or 3 inch),			\$1.50 Each
Spare electric bulb sockets fig. 747,			.35 Each
Electric connectors only, (male and female),			\$1.65 per set
Complete except F. P. socket, deduct			1.65 Each
With Red, Green or Blue Globe, add			.50 Each
Furnished with 2½ inch globe unless otherwise specified			

**Junior Pole Light Assembly**  
 1½ INCH FRESNEL BALL GLOBE, FIG. 604  
 COMPLETE WITH SOCKET AND ELECTRIC CONNECTIONS IN POLE AND SOCKET  
 MAHOGANY POLE—CAST BRONZE SOCKET



Fig. 1145

Wired through hollow center of pole. Globe will take a 6 C. P. bulb, double contact. Base of pole is 1 inch. This type is ideal for outboard motor boats and small runabouts.

Length Pole Inches	Polished Brass Each	Chromium Plated Each	Weight Pounds
20	\$8.75	\$10.50	1
24	9.00	10.75	1 1/8
30	9.25	11.00	1 1/4
Complete except F. P. socket—deduct			\$ 1.30 Each
Spare clear globes,			1.00 Each
Spare electric bulb sockets, fig. 747,			.35 Each

**Junior Pole Light Assembly**  
 ELECTRIC CONNECTIONS IN POLE AND SOCKET  
 HOLLOW BRASS POLE—CAST BRONZE SOCKET  
 1½ INCH FRESNEL BALL GLOBE, FIG. 604



Fig. 846

Length Pole Inches	Polished Brass Each	Chromium Plated Each	Diam. Pole Inches
20	\$7.50	\$9.25	3/4
24	7.75	9.50	3/4
30	8.00	9.75	3/4
Complete except F. P. socket, deduct			\$ .80 Each
Spare clear globes,			1.00 Each
Spare electric bulb sockets fig. 747,			.35 Each



## Combination Flag Pole and Light

ELECTRIC—HOLLOW MAHOGANY POLE  
 2½ OR 3 INCH CLEAR GLOBE, FIG. 250 OR 251  
 DOUBLE CONTACT SOCKET—WIRED



Fig. 492

Length Overall Inches	Polished Brass Each	Chromium Plated Each
24	\$6.00	\$7.25
30	6.25	7.50
36	6.50	7.75
48	7.50	8.75

Diameter Base (all lengths) 1¼ inches.

NOTE—Furnished with wire outlet through side of pole instead of bottom if desired. Add \$.35 each.

Globe will accommodate up to 50 C. P. bulb.

2½ inch globes furnished unless 3 inch is specified.

Spare clear globes (2½ or 3 inch) \$1.50 Each  
 Spare electric bulb sockets Fig. 747, .35 Each  
 With Red, Green or Blue Globe, add .50 Each

## Junior Flag Pole Lights

1½ INCH FRESNEL BALL GLOBE  
 HOLLOW BRASS POLE—CAST BRONZE SOCKET



Fig. 603

Wires concealed in pole and passing through socket under deck.

Length Overall Inches	Polished Brass Each	Chromium Plated Each	Diam. Pole Inches	Weight Oz.
20	\$5.50	\$7.25	¾	11
24	5.75	7.50	¾	12
30	6.00	7.75	¾	16

## Mahogany Flag Poles

Turned from solid seasoned mahogany. Natural finish—varnished.

## Junior Flag Pole Lights

ELECTRIC—HOLLOW MAHOGANY POLE  
 1½ INCH FRESNEL BALL GLOBE, FIG. 604  
 DOUBLE CONTACT SOCKET—WIRED



Fig. 602

Length Overall Inches	Diam. Base Inches	Weight Oz.
20	¾	7
24	¾	8
30	¾	9

Height Inches	Polished Brass Each	Chromium Plated Each
20	\$5.00	\$6.00
24	5.25	6.25
30	5.50	6.50

Globe will accommodate 6 C. P. bulb.

Spare clear globes, \$1.00 Each

Spare electric sockets Fig. 747, \$ .35 Ea.



Fig. 496

Length Overall Inches	Each	Diameter Base Inches
18	\$1.25	¾
18	1.50	1¼
24	2.25	1¼
30	3.25	1¼
36	4.25	1¼
48	5.25	1¼

With 1 inch diam. base,  
 With brass ferrule,

add \$ .50 Each  
 add .50 Each





## Pole Lights

BRASS—WITH THREADED FRESNEL GLOBE  
DOUBLE CONTACT SOCKET—NOT WIRED

JUNIOR TYPE  
WITH 1½ INCH GLOBE, FIG. 604  
FOR SMALL BOATS—MAXIMUM BULB 6 C. P.



Fig. 600



Fig. 601

	Polished Brass Each	Chromium Plated Each	Spare Globes Each	Spare Sockets Each	Height Inches	I. D. Neck Inches	Wt. Oz.
	\$3.25	\$4.25	\$1.00	\$ .35	4¼	⅝	7

STANDARD TYPE  
WITH 2½ OR 3 INCH GLOBE FIG. 250 OR 251  
FOR CLASS 1, 2 AND 3 BOATS  
MAXIMUM BULB 50 C. P.



Fig. 491



Fig. 482

No.	Polished Brass Each	Chromium Plated Each	Spare Globes Each	Diam. Globe In.	Height In.	I. D. Neck In.	Wt. Oz.
1	\$4.00	\$5.00	\$1.50	2½	5	¾	12
2	4.00	5.00	1.50	3	5¾	¾	14

HEAVY DUTY TYPE  
WITH 2½ OR 3 INCH GLOBE FIG. 250 OR 251



Fig. 484



Fig. 498

No.	Polished Brass Each	Chromium Plated Each	Spare Globes Each	Diam. Globe In.	Height In.	I. D. Neck In.	Wt. Lbs.
1	\$5.50	\$6.50	\$1.50	2½	5	¾	1
2	5.50	6.50	1.50	3	5¾	¾	1½

### NOTES

Figs. 484, 491 and 600 for wiring through bottom  
Figs. 482, 498 and 601 for wiring through side  
With Red, Green or Blue Globe, add \$ .50 Each

## Stern Lights

BRASS—WITH THREADED FRESNEL GLOBE  
DOUBLE CONTACT SOCKET

JUNIOR TYPE  
WITH 1½ INCH GLOBE, FIG. 604  
FOR SMALL CRUISERS—MAXIMUM BULB 6 C. P.



Fig. 404

	Polished Brass Each	Chromium Plated Each	Spare Globes Each	Spare Sockets Each	Height Overall Inches	Diam. Base Inches	Wt. Oz.
	\$3.75	\$4.75	\$1.00	\$ .35	3½	2¾	7

STANDARD TYPE  
GLOBE HOLDER SPUN FROM SHEET BRASS  
WITH 2½ OR 3 INCH GLOBE FIG. 250 OR 251



Fig. 422

No.	Polished Brass Each	Chromium Plated Each	Diam. Globe Inches	Height Overall Inches	Diam. Base Inches	Weight Ounces
1	\$4.50	\$5.75	2½	5½	2⅜	12
2	4.50	5.75	3	6	2⅜	14
3	5.25	6.75	3	12	2⅜	20

HEAVY DUTY TYPE  
GLOBE HOLDER MILLED FROM BRASS ROD  
WITH 2½ OR 3 INCH GLOBE FIG. 250 OR 251



Fig. 506

No.	Polished Brass Each	Chromium Plated Each	Diam. Globe Inches	Height Overall Inches	Diam. Base Inches	Weight Ounces
1	\$6.25	\$7.50	2½	5½	2⅜	18
2	6.25	7.50	3	6	2⅜	20
3	7.00	8.50	3	12	2⅜	26

### NOTES

Spare clear globes for Figs. 422 and 506, \$1.50 Each  
Spare sockets Fig. 747, \$ .35 Each  
With Red, Green or Blue Globe, add \$ .50 Each





### Stern Lights

CAST BRONZE



Fig. 375

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

Height Inches	Diam. Base Inches	Diam. Body Inches	Size Lens Inches	Weight Lbs.
7	3 1/2	3 1/2	3 1/8 x 3 1/8	2 3/4
Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Spare Lens Fig. 261 Each	Spare Socket Fig. 747 Each
\$9.75	\$10.75	\$12.50	\$1.50	\$ .35

With red, green, blue or amber lens, add \$1.25 each.

With medium screw socket fig. 346 for 15 watt bulb, add \$1.25 each.

### Mast Lights

CAST BRONZE



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 Length Neck Inches	Inside Diam. Neck Inches	Weight Lbs.
6 3/4	3 1/2	3 1/8 x 3 1/8	2 1/2	1 1/4 or 1 1/2	2
Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Spare Lens Fig. 261 Each	Spare Socket Fig. 747 Each	
\$9.25	\$10.00	\$11.25	\$1.50	\$ .35	

With red, green, blue or amber lens, add \$1.25 each.

With medium screw socket fig. 346 for 15 watt bulb add \$1.25 each.

### Stern Lights

CAST BRONZE

WITH FIG. 106 THREADED GLOBE FOR BULB UP TO 75 WATTS



Fig. 112

Equipped with clear fresnel lens and fig. 222 medium screw electric socket.

Height Overall Inches	Diam. Base Inches	Size of Globe Inches	Weight Pounds
8 3/4	3 1/8	5 x 3 1/2	3 3/4
Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	
\$7.00	\$7.50	\$8.75	

Spare globes, \$2.25 each.  
Spare sockets, \$ .60 each.

With red, green, blue or amber globe, add \$1.75 each.

With double contact socket fig. 276, add \$ .60 each.

### Mast Lights

CAST BRONZE

WITH FIG. 106 THREADED GLOBE FOR BULB UP TO 75 WATTS



Fig. 113

Equipped with clear fresnel lens and fig. 222 medium screw electric socket.

Height Overall Inches	Diam. Bottom Opening Inches	Inside Length Neck Inches	Size of Globe Inches	Weight Pounds
9	1 3/4	2 1/2	5 x 3 1/2	4
Plain Bronze Each	Polished Bronze Each	Chromium Plated Each		
\$7.50	\$8.50	\$10.00		

Spare globes, \$2.25 each.

Spare sockets, \$ .60 each.

With red, green, blue or amber globe, add \$1.75 each.  
With double contact socket fig. 276, add \$ .60 each.

### Stern Light

WROUGHT BRASS

With 360 degree fresnel lens and double contact electric socket.

Can be furnished in any height desired.

Height Overall Inches	Diam. Base Inches	Diam. Neck Inches	Size Lens Inches	Weight Pounds
10	3 1/2	3/8	3 1/8 x 3 1/8	1 3/4
Polished Brass Each	Chromium Plated Each			
\$8.00	\$9.50			

For each additional inch above standard height add \$ .15.

With red, green, blue or amber lens, add \$1.25 each.

Spare clear lens fig. 261, \$1.50 each.  
Spare socket fig. 276, .60 each.



Fig. 1119

### Improved Mast Light

CAST BRONZE—WITH THREADED LENS GUARD INTEGRAL CABLE ENTRANCE WITH TERMINAL TUBE



Fig. 83

With Fig. 106 Clear Threaded Globe for bulb up to 75 watts, medium screw base.

Height Overall Inches	Diam. Bottom Opening Inches	Length Inside Neck Inches	Size of Globe Inches	Weight Pounds
10	1 3/4	2 1/2	5 x 3 1/2	5 1/2
Plain Bronze Each	Polished Bronze Each	Chromium Plated Each		
\$12.50	\$13.75	\$15.75		

Spare globes, \$2.25 each.

Spare guards, \$2.50 each.

Spare sockets, \$ .60 each.

With red, green, blue or amber globe, add \$1.75 each.  
With double contact socket fig. 276, add \$ .60 each.





## Pole or Mast Light

HEAVY BRASS—THREADED FRESNEL GLOBE  
DOUBLE CONTACT SOCKET—FOR 1/2 INCH PIPE



Fig. 362

With 2 1/2 or 3 inch globe fig. 250 or 251, will accommodate up to 50 C. P. bulb.

No.	Plain Brass Each	Polished Brass Each	Chromium Plated Each	Diam. Globe In.	Height Overall In.	Diam. Base In.	Wt. Lbs.
1	\$4.25	\$5.00	\$5.75	2 1/2	3 1/2	2 1/4	1
2	4.25	5.00	5.75	3	4	2 1/4	1 1/8

## Mast Light

CAST BRONZE—CLEAR FRESNEL GLOBE  
MEDIUM SCREW SOCKET—FOR 15 WATT BULB



Fig. 103

Will accommodate 15 watt A-17 bulb.

Plain Bronze Each	Polished Bronze Each	Height Overall Inches	Diam. Globe Inches	Threaded I. P. S. Inches	Weight Pounds
\$6.25	\$7.25	6	3	1/2	2

Chromium plated finish, add \$1.25 to polished price.

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

Spare clear globes fig. 249, add \$1.65 each.

Spare sockets fig. 222, \$ .60 each.

With double contact socket fig. 276, add \$ .60 each.

## Mast Lights

BRASS BASE—CLEAR FRESNEL GLOBE  
MEDIUM SCREW SOCKET



Fig. 488

Fig. 488 threaded 1/2 inch I. P. S.

Fig. 489 drilled for mounting on mast truck.

Plain Bronze Each	Polished Bronze Each	Height Overall Inches	Diam. Base Inches	Size Globe Inches	Opening In globe Inches
\$4.25	\$5.00	6	2 3/4	5 1/2 x 2 3/4	1 7/8

Chromium plated finish, add \$1.00 to polished price.

Spare clear globes fig. 77, \$1.50 each.

With red, green or blue globe add \$ .80 each.

Special porcelain electric sockets only fig. 222, \$ .90 each.

Bulbs for above, 120 volt 10 watt, clear \$ .55 each.



Fig. 489

## Mast Light

CAST BRONZE—WITH MEDIUM SCREW SOCKET  
WITH FIG. 106 THREADED GLOBE FOR BULB  
UP TO 75 WATTS



Fig. 309

Height Overall Inches	Size Globe Inches	Opening In globe Inches	Tapped for Pipe Size Inches	Weight Pounds
6 1/2	5 x 3 1/2	2 3/4	1/2	2 1/2

Plain Bronze Each  
\$6.50

Polished Bronze Each  
\$7.25

Chromium Plated Each  
\$8.50

With red, green, blue or amber globe, add \$1.75 each.

Spare clear globes fig. 106, \$2.25 each.

Spare sockets fig. 222, \$ .60 each.

With double contact socket fig. 276, add \$ .60 each.

## Truck and Yardarm Fixture

CAST BRONZE—CLEAR FRESNEL GLOBE  
MEDIUM SCREW SOCKET—FOR 15 WATT BULB



Fig. 104

Will accommodate 15 watt A-17 bulb.

Plain Bronze Each	Polished Bronze Each	Height Overall Inches	Diam. Globe Inches	Extreme Width Inches	Weight Pounds
\$7.00	\$8.25	5 5/8	3	4 1/4	2

Chromium plated finish, add \$1.25 to polished price.

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

Spare clear globes fig. 249, \$1.65 each.

Spare sockets fig. 222, \$ .60 each.

With double contact socket fig. 276, add \$ .60 each.

## Meal and Absent Light

CAST BRONZE—WATERTIGHT

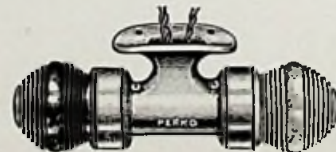


Fig. 329 with Double Contact Socket  
Fig. 330 with Medium Screw Socket

For mounting on yardarm. Supplied with two Fresnel globes, one blue, the other clear.

Fig.	Polished Bronze Each	Chromium Plated Each	Length Overall Inches	Size Base Inches	Diam. Globe Inches	Wt. Lbs.
329	\$13.00	\$16.50	9	3 3/8 x 1 3/4	2 1/2	2
330	15.00	18.50	10	3 3/8 x 1 3/4	3	2 1/2





### Combination Blinker and Loading Light

CAST BRONZE—BLACK FINISH  
WITH RED AND CLEAR FRESNEL LENSES  
MEDIUM SCREW BAKELITE SOCKETS

Four sockets in lower section for 25 watt tubular bulbs. One socket in upper section for bulb up to 75 watt. Bulbs not included. Base threaded 1 inch I. P. S.

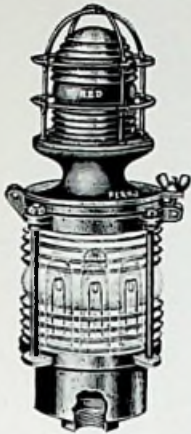


Fig. 1163

Extreme Height Inches	Size Red Lens Inches	Size Clear Lens Inches	Wt. Lbs.
16½	5x3½	5½x5¼	18

Each	Tubular Bulbs Each	Spare Sockets Each
\$63.00	\$ .85	\$ .60

Spare clear lenses fig. 261. \$6.00 each.

Spare red lenses fig. 106, \$4.00 each.

With larger thread in base up to 1½ inch I. P. S., add \$1.30 each.

### Portable Staff Light

ELECTRIC—360° FRESNEL LENS

WITH PACKING GLAND FOR CABLE

MEDIUM SCREW SOCKET



Fig. 16

Size Lens Inches	Height Lens Bails Inches	Diam. Base Inches	Weight Pounds
4¼ x 4	8¼	5⅝	2½

Polished Brass Each	Polished Copper Each
\$19.50	\$25.00

With red, green or blue lens, add \$2.00 each.

Spare lenses, see fig. 261, Senior.

### Globe—Distress or Signal Light

CLEAR GLOBE  
OIL BURNING

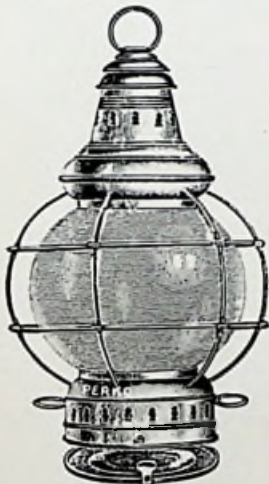


Fig. 44

Diam. Globe Inches	Height Overall Inches	Weight Pounds
6	11	4
8	14½	6
10	22	12

Diam. Globe Inches	Galvanized Steel Each	Polished Brass Each
6	\$12.75	\$18.00
8	14.75	21.50
10	26.50	36.00

With red, green, blue or frosted globe, add \$3.00 each. Electric only, same prices as above.

Comb. oil and electric 6 and 8 inch, add \$1.50 each.

Comb. oil and electric 10 inch, add \$2.25 each.

Hinged bottom furnished with 8 inch size only.

#### SPARE PARTS

Size	Globes	Burners	Oil	Founts	Elec.
6	Fig. 264	Fig. 246 No. 0	Fig. 735	Fig. 735	Fig. 274
8	Fig. 264	Fig. 246 No. 1	Fig. 286	Fig. 286	Fig. 292
10	Fig. 264	Fig. 246 No. 2	Fig. 282	Fig. 282	Fig. 288

### Mast or Blinker Signaling Lights

CAST BRONZE—WATERTIGHT—BLACK FINISH  
WITH 360° FRESNEL LENS



Fig. 403

Size No.	Size Lens Inches	Height Overall Inches	I. P. S. Thread Inches	Weight Pounds	For Vessel Feet
1	3 ⅞ x 3 ⅞	6¾	½	4	up to 65
2	4¼ x 4	8¼	¾	6	65 to 150
3	5½ x 5¼	9¾	1	10	over 150

Size No.	Clear Each	Colored Each	Electrical Equipment
1	\$18.50	\$19.50	1 medium screw socket
1-A	21.50	22.50	2 or 3 candelabra sockets
2	21.50	23.00	1 medium screw socket
2-A	25.00	26.00	2 or 3 candelabra sockets
2-B	29.50	31.00	6 light candelabra unit
2-C	24.00	25.50	1 mogul 3 wire socket
3	30.00	35.50	1 medium screw socket
3-A	34.00	39.25	4 medium screw sockets
3-B	33.50	38.75	3 candelabra sockets
3-C	38.00	43.25	6 light candelabra unit
3-D	32.75	38.00	1 mogul 3 wire socket

All above sockets are Phenolic (Bakelite).

6 Light Candelabra unit, see fig. 845.

For spare lenses, see fig. 261.

Colored lenses are red, green, blue or amber.

#### BULBS FOR ABOVE

- 120 volt 60 watt A-19 clear for nos. 1, 2, 3, \$ .55 each.
- 120 volt 15 watt T-7 clear for nos. 1-A, 2-A, 2-B, 3-B, and 3-C, \$ .95 each.
- 120 volt 25 watt T-10 clear for no. 3-A, \$ .85 each.
- 120 volt 50/50 watt P-25 clear for no. 2-C, 3-D, \$5.50 each.

### Watertight Blinker Key

CAST BRONZE—BLACK FINISH—IMPROVED  
TUNGSTEN POINTS—CONDENSER



Fig. 9

Condenser is metal encased, 400 volts D. C. .25 M. F. D. Ground test 2000 volts.

Cover sealed by 6 screws and rubber gasket. Box has three mounting lugs.

Each	Length Inches	Width Inches	Height Inches	Weight Pounds
\$23.50	4¾	2¾	2¾	4



**ELECTRIC NAVIGATION LIGHTS FOR VESSELS OVER 65 FT. LONG**

**Watertight — Cast Bronze Rebulbing Cap — Terminal Tubes**

**MOGUL 3-WIRE PHENOLIC SOCKETS FIG. 270 FOR DOUBLE FILAMENT BULBS**



Fig. 1150

**Side Lights, Fig. 1150**

112½ DEGREE RED AND GREEN LENSES—10 POINT—IN PAIRS WITH BRACKET FOR MOUNTING

No.	Galvanized Steel Per Pair	Polished Brass Per Pair	Lens Fig. 250 Height Inches	Height Less Handle Inches	Size Base Inches	Weight Per Pair Pounds	For Size Vessel feet
1	\$68.00	\$85.00	6¾	11	7¼ x 7¼	18	65 to 150
2	90.00	107.00	7½	13½	9½ x 9½	30	over 150
3	160.00	186.00	8½	15¼	10¾ x 10¾	36	over 150

**Masthead, Range and Towing Lights, Fig. 1151**

225 DEGREE CLEAR LENS—20 POINT WITH FOUR LUGS FOR MOUNTING

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 250 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of lugs Inches	Weight Each Pounds
1	\$34.00	\$42.50	6¾	11	7⅞ x 7¾	8⅞	10
2	45.00	53.50	7½	13½	9 x 10	10⅞	15
3	80.00	93.00	8½	15¼	10¾ x 11¼	12¾	21

With red or green lens (special purpose) add \$8.00 each.



Fig. 1151



Fig. 1152

**Stern Lights, Fig. 1152**

135 DEGREE CLEAR LENS—12 POINT WITH FOUR LUGS FOR MOUNTING

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 260 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of lugs Inches	Weight Each Pounds
1	\$34.00	\$42.50	6¾	11	7 x 7½	8⅞	9
2	45.00	53.50	7½	13½	9 x 10	10⅞	12
3	80.00	93.00	8½	15¼	10⅞ x 10¾	12¼	15

With red or green lens (special purpose) add \$8.00 each.

With 45 degree red lens (for suction dredges) add \$12.00 each.

**Anchor Lights, Fig. 1153**

360 DEGREE CLEAR LENS—32 POINT WITH FOUR LASHING EYES AND WIRE GUARD

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 201 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Each Pounds
1	\$33.00	\$41.50	6¾	12½	7¾	11
2	44.00	52.50	7½	14¼	9½	16
3	79.00	92.00	8½	15¼	11	22

**Breakdown Lights, Fig. 1154**

360 DEGREE RED LENS—32 POINT WITH FOUR LASHING EYES AND WIRE GUARD

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 201 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Each Pounds
1	\$38.00	\$46.50	6¾	12½	7¾	11
2	49.00	57.50	7½	14¼	9½	16
3	86.50	99.50	8½	15¼	11	22



Fig. 1153  
Fig. 1154

**NOTES**

Above prices do not include bulbs.

Complete with double filament bulb fig. 532, 50 or 100 watt, add \$5.50 each.

With Medium Screw Phenolic Sockets fig. 346, deduct \$1.00 each.

Spare cast bronze watertight caps with gasket, \$5.00 each.

COPPER LIGHTS MADE TO ORDER—PRICE ON APPLICATION



## OIL NAVIGATION LIGHTS FOR VESSELS OVER 65 FT. LONG American Improved Hinged Top — Bottom Opening

SWIVEL FOUNT FIG. 282 — HINGED BURNER FIG. 242

LIP CHIMNEY FIG. 267 — FLAT WICK FIG. 302

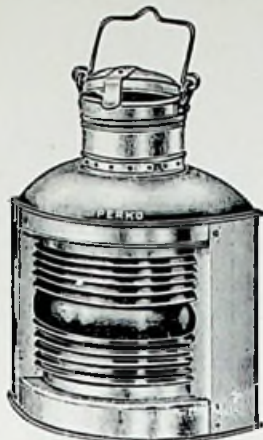


Fig. 1155

**Side Lights, Fig. 1155**  
112½ DEGREE RED AND GREEN LENSES—10 POINT—IN PAIRS  
WITH BRACKET FOR MOUNTING

No.	Galvanized Steel Per Pair	Polished Brass Per Pair	Lens Fig. 250 Height Inches	Height Less Handle Inches	Size Base Inches	Weight Per Pair Pounds	For Size Vessel feet
0	\$65.50	\$82.50	5½	13¾	6¾ x 6¾	14	65 to 90
1	68.00	85.00	6¾	14¾	7¼ x 7¼	18	90 to 150
2	90.00	107.00	7½	18	9½ x 9½	29	over 150
3	160.00	186.00	8½	19¾	10¾ x 10¾	38	over 150

## Masthead, Range and Towing Lights, Fig. 1156

225 DEGREE CLEAR LENS—20 POINT  
WITH FOUR LUGS FOR MOUNTING

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 250 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of Lugs Inches	Weight Each Pounds
0	\$32.75	\$41.25	5½	13¾	7 x 7¼	8½	7
1	34.00	42.50	6¾	14¾	7½ x 7¾	8⅝	9
2	45.00	53.50	7½	18	9 x 10	10⅞	15
3	80.00	93.00	8½	19¾	10¾ x 11¼	12¾	21

With red or green lens, (special purpose) add \$8.00 each.

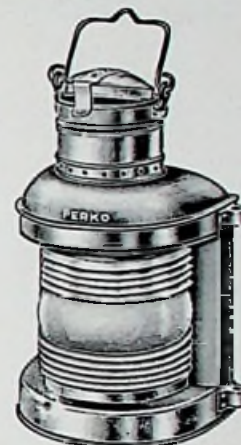


Fig. 1156

## Stern Lights, Fig. 1157

135 DEGREE CLEAR LENS—12 POINT  
WITH FOUR LUGS FOR MOUNTING

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 260 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of Lugs Inches	Weight Each Pounds
0	\$32.75	\$41.25	5½	13¾	7 x 7¼	8½	6
1	34.00	42.50	6¾	14¾	7 x 7½	8⅝	8
2	45.00	53.50	7½	18	9 x 10	10⅞	13
3	80.00	93.00	8½	19¾	10⅞ x 10¾	12¼	16

With red or green lens (special purpose) add \$8.00 each.

With 45 degree red lens (for suction dredges) add \$12.00 each.

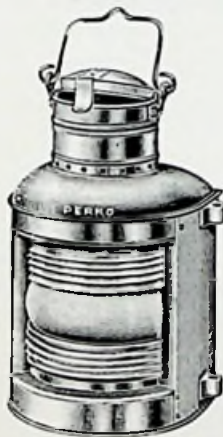


Fig. 1157

## Anchor Lights, Fig. 1158

360 DEGREE CLEAR LENS—32 POINT  
WITH FOUR LASHING EYES AND WIRE GUARD

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 201 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Each Pounds
0	\$31.75	\$40.25	5½	13¾	7⅝	10
1	33.00	41.50	6¾	14¾	7⅝	11
2	44.00	52.50	7½	18	9½	17
3	79.00	92.00	8½	19¾	11	23

## Breakdown Lights, Fig. 1159

360 DEGREE RED LENS—32 POINT  
WITH FOUR LASHING EYES AND WIRE GUARD

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 201 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Each Pounds
0	\$36.75	\$45.25	5½	13¾	7⅝	10
1	38.00	46.50	6¾	14¾	7⅝	11
2	49.00	57.50	7½	18	9½	17
3	86.50	99.50	8½	19¾	11	23

COMBINATION OIL AND ELECTRIC LIGHTS

With single 2 wire medium screw adapter fig. 288 add \$3.00 each.

With double 2 wire medium screw adapter fig. 289 (for sizes 2 and 3 only) add \$5.00 each.

With 3 wire mogul adapter fig. 1082 for double filament bulb, add \$5.25 each.



Complete oil lamp used in all lights on this page.

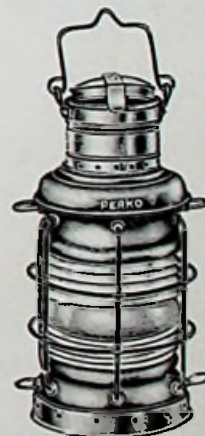


Fig. 1158  
Fig. 1159





## ELECTRIC NAVIGATION LIGHTS FOR VESSELS OVER 65 FT. LONG

### Flat Top Style — Bottom Opening

MEDIUM SCREW 2 WIRE PHENOLIC ADAPTER FIG. 288 FOR SINGLE FILAMENT BULBS



Fig. 30

### Side Lights, Fig. 30

112½ DEGREE RED AND GREEN LENSES—10 POINT—IN PAIRS WITH BRACKET FOR MOUNTING

No.	Galvanized Steel Per Pair	Polished Brass Per Pair	Lens Fig. 250 Height Inches	Height Less Handle Inches	Size Base Inches	Weight Per Pair Pounds	For Size Vessel feet
0	\$47.00	\$64.00	5½	10½	6½ x 6½	12	65 to 90
1	51.00	68.00	6¾	11	7½ x 7½	14	90 to 150
2	69.00	89.00	7½	13½	9½ x 9½	24	over 150

### Masthead, Range and Towing Lights, Fig. 983

225 DEGREE CLEAR LENS—20 POINT WITH FOUR LUGS FOR MOUNTING

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 250 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of lugs Inches	Weight Each Pounds
0	\$23.50	\$32.00	5½	10½	7 x 7	8½	6
1	25.50	34.00	6¾	11	7 x 7	8¾	8
2	34.50	44.50	7½	13½	9 x 9½	10¾	12½

With red or green lens (special purpose) add \$8.00 each.



Fig. 983

### Stern Lights, Fig. 986

135 DEGREE CLEAR LENS—12 POINT WITH FOUR LUGS FOR MOUNTING

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 269 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of lugs Inches	Weight Each Pounds
0	\$23.50	\$32.00	5½	10½	7 x 7	8½	5½
1	25.50	34.00	6¾	11	7 x 7	8¾	7
2	34.50	44.50	7½	13½	9 x 9½	10¾	9½

With red or green lens (special purpose) add \$8.00 each.

With 45 degree red lens (for suction dredges) add \$12.00 each.



Fig. 986

### Anchor Lights, Fig. 32

360 DEGREE CLEAR LENS—32 POINT WITH FOUR LASHING EYES AND WIRE GUARD

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Each Pounds
0	\$22.00	\$30.50	5½	11	7½	8
1	24.00	32.50	6¾	12	7½	9
2	33.00	42.50	7½	14½	9½	13

### Breakdown Lights, Fig. 84

360 DEGREE RED LENS—32 POINT WITH FOUR LASHING EYES AND WIRE GUARD

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Each Pounds
0	\$27.00	\$36.00	5½	11	7½	8
1	29.00	38.00	6¾	12	7½	9
2	38.00	48.00	7½	14½	9½	13



Fig. 32  
Fig. 84

#### NOTES

Above prices do not include bulbs.

With double 2 wire medium screw adapter fig. 289 (Size 2 only) add \$2.00 each.

With 3 wire mogul adapter fig. 1082 for double filament bulb, add \$2.60 each.

COPPER LIGHTS MADE TO ORDER—PRICE ON APPLICATION



## OIL NAVIGATION LIGHTS FOR VESSELS OVER 65 FT. LONG

### Turret Top — Bottom Opening

SWIVEL FOUNT FIG. 282 — HINGED BURNER FIG. 242

LIP CHIMNEY FIG. 267 — FLAT WICK FIG. 302



Fig. 21

### Side Lights, Fig. 21

112½ DEGREE RED AND GREEN LENSES—10 POINT—IN PAIRS  
WITH BRACKET FOR MOUNTING

No.	Galvanized Steel Per Pair	Polished Brass Per Pair	Lens Fig. 259 Height Inches	Height Less Ring Inches	Size Base Inches	Weight Per Pair Pounds	For Size Vessel Feet
9	\$47.00	\$64.00	5½	14	6½ x 6½	13	65 to 90
10	51.00	68.00	6¾	15	7½ x 7½	15	90 to 150
11	69.00	89.00	7½	18¾	9½ x 9½	26	over 150

### Masthead, Range and Towing Lights, Fig. 982

225 DEGREE CLEAR LENS—20 POINT  
WITH FOUR LUGS FOR MOUNTING

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 256 Height Inches	Height Less Ring Inches	Size Base Inches	C to C of lugs Inches	Weight Each Pounds
0	\$23.50	\$32.00	5½	14	7 x 7	8½	7½
1	25.50	34.00	6¾	15	7 x 7	8⅝	9½
2	34.50	44.50	7½	18¾	9 x 9½	10⅞	14

With red or green lens (special purpose) add \$8.00 each.



Fig. 982

### Stern Lights, Fig. 985

135 DEGREE CLEAR LENS—12 POINT  
WITH FOUR LUGS FOR MOUNTING



Fig. 985

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 269 Height Inches	Height Less Ring Inches	Size Base Inches	C to C of lugs Inches	Weight Each Pounds
0	\$23.50	\$32.00	5½	14	7 x 7	8½	6
1	25.50	34.00	6¾	15	7 x 7	8⅝	7½
2	34.50	44.50	7½	18¾	9 x 9½	10⅞	10½

With red or green lens (special purpose) add \$8.00 each.

With 45 degree red lens (for suction dredges) add \$12.00 each.

### Anchor Lights, Fig. 23

360 DEGREE CLEAR LENS—32 POINT  
WITH FOUR LASHING EYES AND WIRE GUARD

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Ring Inches	Diam. Base Inches	Weight Each Pounds
22	\$22.00	\$30.50	5½	14½	7½	8½
22½	24.00	32.50	6¾	16	7½	10
23	33.00	42.50	7½	18¾	9½	14

### Breakdown Lights, Fig. 129

360 DEGREE RED LENS—32 POINT  
WITH FOUR LASHING EYES AND WIRE GUARDS

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Ring Inches	Diam. Base Inches	Weight Each Pounds
22	\$27.00	\$36.00	5½	14½	7½	8½
22½	29.00	38.00	6¾	16	7½	10
23	38.00	48.00	7½	18¾	9½	14



Fig. 23  
Fig. 129

### COMBINATION OIL AND ELECTRIC LIGHTS

With single 2 wire medium screw adapter fig. 288, add \$3.00 each.

With double 2 wire medium screw adapter fig. 289, for sizes 2-11-23 only, add \$5.00 each.

With 3 wire mogul adapter fig. 1082 for double filament bulb, add \$5.25 each.

COPPER LIGHTS MADE TO ORDER—PRICE ON APPLICATION





## 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.



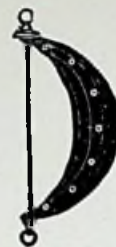
Fig. 169



Fig. 170



Fig. 171



Ball Folded

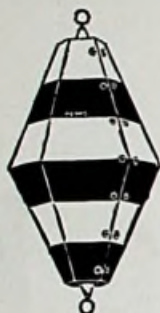


Fig. 172



Fig. 173



Frustum Folded



Fig. 175



Fig. 176

Fig. No.	Diam. Inches	Height Inches	Weight Lbs.	Each
169 5	24	24	2½	\$10.00
170 3	24	24	2½	14.50
171 4	24	24	2½	17.50
172 1	24	48	5	49.00
173 2	24	48	5	49.00
175 6	7½	14½	9	22.00
176 7	7½	14½	9	27.00

SPECIAL COLORS MADE TO ORDER—PRICE ON APPLICATION

### RULES IN EFFECT ON DAY SIGNALS

The following signals we guarantee to cover law in confirmation with pilot rules of November 10, 1936. 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 several 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. See Figs. 982 and 985.

**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.

**RULE NO. 6**—Vessels of more than 300 gross tons propelled by machinery when moored or anchored in a fairway or channel shall display one No. 5 shape.

### OTHER USES AND REGULATIONS FOR DAY SIGNALS

**ARTICLE 4-A INTERNATIONAL RULES**—A vessel which from any accident is not under command shall carry by day two No. 5 shapes.

**ARTICLE 4-B INTERNATIONAL RULES**—A vessel employed in laying or in picking up telegraph cable shall carry by day two No. 3 Red shapes and one No. 1 shape all White in color.

**ARTICLE 14 INTERNATIONAL RULES**—A steam vessel proceeding under sail only but having her funnel up shall carry by day one No. 5 shape.



## Battery Side Lights For Oil Carriers

112½ DEGREE RED AND GREEN LENSES  
TWO MILE VISIBILITY—WITH SWITCH  
175 HOURS CONTINUOUS LIGHT

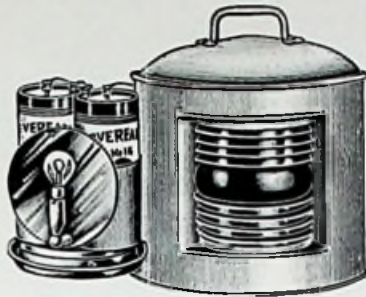


Fig. 1008

Designed for use with two ordinary 1½ volt dry cells such as Eveready No. 6, readily obtainable.

The battery, bulb, switch, socket and reflector are mounted on swivel type platform inserted in light through bottom opening and locked by a slight turn.

Galvanized Per Pair	Spare Bulbs Each	Lens Fig. 259 Each	Height Lens Inches	Height Lens Handle Inches	Size Base Inches
\$55.00	\$1.40	\$8.50	6¾	11½	7½x7½

Above price includes bulbs, no batteries.

With batteries, add \$4.00 per pair.

Bulb is double contact 2.7 volts .15 amp. S-11.

Battery containers as illustrated, complete with reflector, socket, bulb and switch. Without batteries, \$23.60 per pair.

Masthead and stern lights of above design made to order—Price on application.

## 10 Day Oil Anchor Light

360 DEGREE CLEAR FRESNEL LENS  
LATCHED SWIVEL FOUNT



Fig. 596

Fig. 596A

At least 10 days of continuous light on one filling of good grade Kerosene. Wick is non-carbonizing type.

Polished Brass Each	Size Lens Inches	Height Overall Inches	Diam. Fount Inches	Capacity Fount Pints	Weight Pounds
\$23.50	4¼ x 4	14	7	3½	4½

With red, green or blue lens, add \$2.00 each.

Fig. 596-A Fount complete, \$12.00 each.

Light only, less Fount, \$14.00 each.

Spare burners, wicks and chimneys, see figs. 245 and 272.

Spare lenses, see fig. 261.

## 30 Day Battery Anchor Or Loading Light

360 DEGREE CLEAR FRESNEL LENS  
WATERTIGHT—WITH SWITCH



Fig. 470

For use with four ordinary 1½ volt dry cells such as Eveready No. 6, readily obtainable.

720 continuous hours of light on one set of batteries.

No.	Galv. Steel Each	Polished Copper Each	Size Lens Inches	Height Overall Inches	Diam. Base Inches	Wt. Lbs.
1	\$25.00	\$29.00	4¼ x 4	16½	6½	5½
2	39.00	43.00	5½ x 5¼	18	6½	8½

No. 1 with red, green or blue lens, add \$2.00 each.

No. 2 with red, green or blue lens, add \$4.50 each.

Above prices include bulb, no batteries.

With batteries, add \$4.00 per set.

Spare bulbs, 6 volt .04 amp. miniature base, \$ .45 each.

Spare lenses, see fig. 261

Spare switches, see fig. 745.

Spare sockets, \$ .45 each.

Spare battery containers, galv., \$9.00 each. Copper, \$11.00 each.

## 8 Day Western Trap Light

360 DEGREE CLEAR FRESNEL LENS  
OIL BURNING—LATCHED FOUNT



Fig. 14

With special Zenith burner and gear arrangement for control of wick from exterior of light.

Eight days of continuous light on one filling.

Galvanized Steel Each	Height Lens Inches	Height Overall Inches	Diam. Bottom Inches	Capacity Fount Pints	Weight Pounds
\$75.00	7½	22	10	6	20

With red, green or blue lens, add \$5.25 each.

Fount complete with burner and gears, \$32.75 each.

Light only, without Fount, \$50.00 each.

Zenith burner only, \$1.75 each.

Zenith burner with gears, \$5.00 each.

Spare lenses, see fig. 261.





Fig. 59

## Regulation Pier Lights, Fig. 59

OIL—180 DEGREE RED FRESNEL LENS  
WITH FOUR FIG. 131 BRACKETS FOR MOUNTING  
BOTTOM OPENING—SWIVEL FOUNT

Galvanized Steel Each	Spare Lens Each	Height Lens Inches	Height Overall Inches	Size Base Inches	Width Overall Inches	Weight Pounds
\$51.00	\$14.50	7 $\frac{3}{8}$	21	9 x 10	14 $\frac{1}{2}$	13

With flat top for electric only, \$48.50 each.  
Combination Oil and Electric, \$54.00 each.  
With green or clear lens, same prices as above.



Fig. 80

## Regulation Mid Channel Span Lights, Fig. 80

OIL—360 DEGREE GREEN FRESNEL LENS  
FOUR LASHING EYES AND WIRE GUARD  
BOTTOM OPENING—SWIVEL FOUNT

Galvanized Steel Each	Polished Brass Each	Spare Lens Each	Height Lens Inches	Height Less Handle Inches	Diam. Base Inches	Weight Pounds
\$49.00	\$57.50	\$14.40	7 $\frac{1}{2}$	18	9 $\frac{1}{2}$	17

With flat top for electric only, deduct \$2.50 each.  
Combination Oil and Electric, add \$3.00 each.  
With red or blue lens, same prices as above.

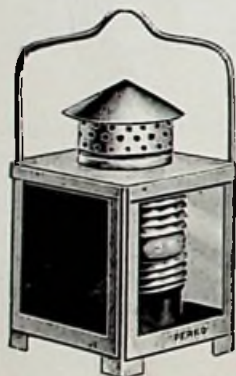


Fig. 63

## Regulation Draw Bridge Lights, Fig. 63

OIL—360 DEGREE CLEAR FRESNEL LENS  
TWO RED AND TWO GREEN FLAT GLASS PANELS  
BOTTOM OPENING—SWIVEL FOUNT

Galvanized Steel Each	Spare Lens Each	Spare Founts Each	Height Lens Inches	Height Less Handle Inches	Width Overall Inches	Size Panels Inches	Weight Pounds
\$72.00	\$10.50	\$7.00	7 $\frac{1}{2}$	18	11 $\frac{1}{4}$	9 $\frac{1}{2}$ x 10 $\frac{1}{2}$	18

Electric only, same price as above.  
Combination Oil and Electric, add \$5.00 each.  
Spare glass Panels, \$3.25 each.

## Tri-Color Trawler Lights

FOR STEAM TRAWLERS

45 DEGREE CLEAR FRESNEL LENS—4 POINT  
90 DEGREE RED AND GREEN FRESNEL LENSES—8 POINT  
WITH FOUR LUGS FOR MOUNTING  
BOTTOM OPENING—SWIVEL FOUNT

No.	Galv. Steel Each	Pol. Brass Each	Spare Lenses Each	Height Lenses Each	Height Fig. 407 Inches	C to C of lugs Inches	Wt. l.b.s.
1	\$54.50	\$72.00	\$4.90	6 $\frac{3}{4}$	15	8 $\frac{5}{8}$	10
2	61.50	78.50	7.20	7 $\frac{1}{2}$	17 $\frac{1}{2}$	10 $\frac{7}{8}$	14

With Flat Top fig. 408 for Electric only, Deduct \$2.50 each.  
Combination Oil and Electric, add \$3.00 each.

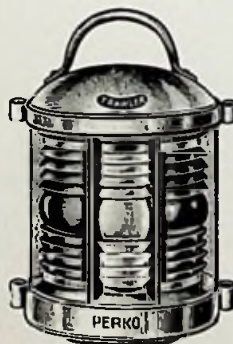


Fig. 408  
Electric



Fig. 407  
Oil

### SPARE PARTS FOR ALL LIGHTS ABOVE

Oil Founts fig. 282 No. 1 for fig. 407 No. 1.  
Oil Founts fig. 282 No. 2 for figs. 59, 80 and 407 No. 2.  
Elec. Adapters fig. 288 No. 1 for fig. 408 No. 1.  
Elec. Adapters fig. 288 No. 2 for figs. 59, 80 and 408 No. 2.

Oil Burners fig. 242 No. 2.  
Chimneys fig. 267 No. 2.  
Wicks fig. 302 No. 2.  
Electric Sockets only fig. 346.



## CAST BRONZE BRIDGE AND PIER LIGHTS

Made in accordance with specification of U. S. Department of Commerce regulations for lighting of bridges and piers. Electric only with threaded cap for replacement of bulbs—waterproof. Medium screw sockets.

### Pier Light

180 DEGREE RED LENS

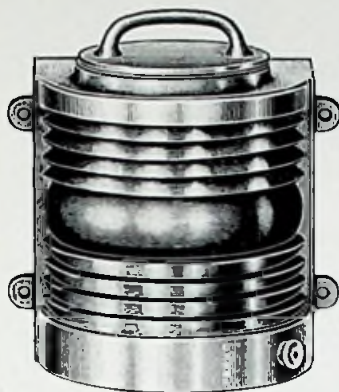


Fig. 1005

Height, less handle	9 7/8 in.
Width, centers of holes	9 3/8 in.
Height, centers of holes	5 5/8 in.
Width base	8 1/4 in.
Depth base	7 1/2 in.
Opening in top	5 in.
Height lens	7 3/8 in.
Circum. lens at bull's eye	12 1/2 in.
Weight	19 1/2 lbs.

Each **\$69.50**  
 Black nickel finish  
 Furnished with green lens when desired at same price.  
 Spare lenses, see fig. 260.

### Mid-Channel Light

360 DEGREE GREEN LENS

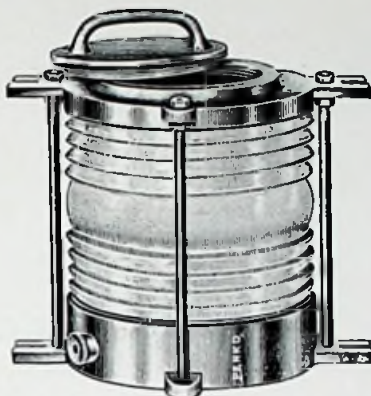


Fig. 1006

Height, less handle	9 1/2 in.
Diameter body	8 in.
Width, ends of guides	11 3/8 in.
Size slot in guides	7/8 x 1 in.
Opening in top	5 in.
Height lens	7 1/2 in.
Diameter lens	7 1/2 in.
Weight	22 lbs.

Each **\$69.50**  
 Black nickel finish  
 Spare lenses, see fig. 261.

### Draw Bridge Light

RED AND GREEN PANEL GLASSES  
 360 DEGREE CLEAR LENS

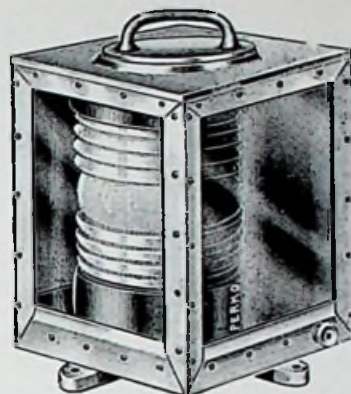


Fig. 1007

Height, less handle	11 1/2 in.
Width of body	10 3/8 in.
Depth of body	10 3/8 in.
Width centers of holes	11 1/2 in.
Height and width panels in clear	8 5/8 in.
Opening in top	5 in.
Height fresnel lens	7 1/2 in.
Diameter fresnel lens	7 1/2 in.
Weight	51 lbs.

Each **\$98.00**  
 Black nickel finish  
 Extra panel glasses 3.25  
 Spare lenses, see fig. 261.

### Pier Light

ON PEDESTAL  
 180 DEGREE RED LENS



Fig. 125

Height overall	19 in.
Diameter pedestal, pipe size	1 in.
Diameter base	5 in.
Other sizes, see Fig. 1005	

Each **\$78.50**  
 Black nickel finish

### Obstruction Light

ON PEDESTAL  
 360 DEGREE RED LENS



Fig. 126

Height overall	19 in.
Diameter pedestal, pipe size	1 in.
Diameter base	5 in.
Other sizes, see Fig. 1006	

Each **\$78.50**  
 Black nickel finish

### Lift Bridge Lights

180 DEGREE RED AND GREEN LENSES



Fig. 127

Height overall	21 1/2 in.
Other sizes, see Fig. 1005	

Each **\$144.00**  
 Black nickel finish

Shorter pedestals furnished if desired, price as above. Longer pedestals than standard add \$ .65 per inch.



### Newport Cabin Lamp

DOUBLE SWING—WEIGHTED BASE  
ALL BRASS



Fig. 141

This lamp is of very sturdy construction, refined appearance and minimum practical extension from wall. Diameter of wall plate 2½ inches.

No.	Polished Brass Each	Chrome Plated Each	Height Inches	Extension Inches	Capacity Fount Pints	Burner Number
1	\$10.00	\$13.75	10½	5½	1	1
2	11.50	15.00	12½	6	1¼	2

No.	Each
1	Spare burners (special).....\$ .70
1	Spare Chimneys (special)..... .60
2	Spare Burners Fig. 242..... 1.20
2	Spare Chimneys Fig. 267 No. 2..... .90

NOTE — Size No. 1 chimneys are not the lipped type, they resemble Fig. 268. Height 4½ inches, diameter base 1¼ inches.

### Universal Wall Lamp

HEAVY TIN PLATE



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.

Complete Each	Height of Back Inches	Diam. of Fount Inches	Weight Each Lbs.
\$4.25	3	5	1½

### Philadelphia Cabin Lamp

DOUBLE SWING—WEIGHTED BASE  
REMOVABLE FOUNT—ALL BRASS



Fig. 137

With 2½ inch diameter wall plate, hinge burner fig. 242 No. 2 and 6 inch chimney fig. 267 No. 2.

No.	Polished Each	Chrome Plated Each	Height Inches	Extension Inches	Capacity Fount Pints
4	\$14.25	\$18.00	14	8½	1½

### Maine Cabin Lamp

STIFF BRACKET—NON SWING  
REMOVABLE FOUNT—ALL BRASS



Fig. 136

With cast bronze bracket, hinge burner fig. 242 No. 2 and 6 inch chimney fig. 267 No. 2.

No.	Polished Each	Chrome Plated Each	Height Inches	Extension Inches	Capacity Fount Pints	Wall Plate Inches
3	\$11.75	\$15.00	12	8	1½	3x1¾

### Smoke Bell and Arm

ALL BRASS



Fig. 128

No.	Polished Brass Each	Chromium Plated Each	Diam. Bell Inches	Extension to Center Inches	Weight Ounces
1	\$2.25	\$3.50	4	3¾	4
2	2.25	3.50	4	4	4
3	2.25	3.50	6¼	5¾	6½
4	2.25	3.50	6¼	6½	7

No. 1 and 2 sizes are for lamp Fig. 141.

No. 3 size is for lamp Fig. 136.

No. 4 size is for lamp Fig. 137.



## ELECTRIC CABIN FIXTURES

WITH MEDIUM SCREW SOCKETS  
FOR 6-12-32 OR 110 VOLTS

### Round Base Pattern

WITH PUSH BUTTON SWITCH—SPUN BRASS



Fig. 308

Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Drop less Lamp Inches	Projection less Lamp Inches	Weight Ounces
\$2.50	\$3.50	2½	2½	3	6

### Double Ceiling Fixture

CAST BRONZE—STANDARD SCREW SOCKETS  
WITH TOGGLE SWITCH



Fig. 451

Polished Bronze Each	Chromium Plated Each	Size Base Inches	Extension from Ceiling Inches
\$7.50	\$9.00	3½x2	2¾

### Upright Pattern

WITH TOGGLE SWITCH—CAST BRONZE



Fig. 304

Polished Bronze Each	Chromium Plated Each	Size Plate Inches	Projection less Lamp Inches
\$6.25	\$8.00	4½x2¾	2¾

### Square Base Pattern

WITH TOGGLE SWITCH—CAST BRONZE



Fig. 450

Polished Bronze Each	Chromium Plated Each	Size Base Inches	Drop less Lamp Inches	Projection less Lamp Inches	Weight Ounces
\$4.00	\$5.00	2x2	2	2¾	12

### Junior Fixtures

WITH DOUBLE CONTACT SOCKET  
TOGGLE SWITCH—CAST BRONZE



Fig. 605

Polished Bronze Each	Chromium Plated Each	Size Base Inches	Drop less Lamp Inches	Projection less Lamp Inches
\$3.75	\$4.75	1¾x1¾	2	2

### New Streamline Pattern

CHROMIUM PLATED  
BAKELITE MEDIUM SCREW SOCKET—  
TURN SWITCH



Fig. 217

Each	Size Base Inches	Drop Less Lamp Inches	Depth Less Lamp Inches	Weight Ounces
\$2.75	2½ x 2¼	2¼	2½	8

### Molded Plastic Shades

For all fixtures on this page, stock color is White but can be supplied in Ivory or Tan to order.

Suitable for 25 to 40 watt bulbs.



Fig. 174

Each	Height Inches	Diameter Inches	Weight Ounces
\$5.00	3½	4¼	2½

PRICES ON THIS PAGE DO NOT INCLUDE BULBS. WHEN ORDERING BULBS, SPECIFY VOLTAGE AND CANDLEPOWER, FROSTED OR CLEAR. ABOVE FIXTURES ARE SUPPLIED, NOT WIRED.





## "Brightlite" Dome Lights

OPEN SIDES FOR BETTER ILLUMINATION  
HOLOPHANE OR FROSTED GLOBE  
BRASS—CHROMIUM PLATED



Shallow—Fig. 1147



Deep—Fig. 1148

Globe is held in place by three bronze springs and is easily removed for cleaning or replacement of bulb.

Furnished complete with double contact socket. Toggle switch and holophane or frosted globe.

No.	Chromium Plated Each	Diam. Globe Inches	Depth Inches	Diam. Base Inches	Type Globe
1	\$6.25	4	Shallow	1 3/4	Holophane
2	6.25	4	Shallow	1 3/4	Frosted
3	6.25	4	Deep	3	Holophane
4	7.25	5	Shallow	2	Frosted
5	7.25	5	Deep	3	Holophane

Above prices do not include bulb.

For spare globes see figs. 132, 257 and 258.

Spare sockets fig. 276, \$ .60 each.

## Watertight Dome Light

CAST BRONZE—DOUBLE CONTACT SOCKET  
WITH THREADED DIFFUSING GLOBE

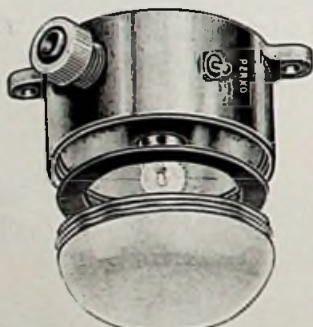


Fig. 1266

For small boats. Will accommodate a 6 C. P. low voltage bulb. With Nickel Plated Reflector, toggle switch and one packing gland for cable.

Plain Bronze Each	Polished Bronze Each	Extreme Diameter Inches	Globe Diameter Inches	Extreme Depth Inches	Weight Pounds
\$9.00	\$10.25	3 1/2	3 1/4	2 3/4	1 3/4

Chromium plated finish, add \$1.65 to polished price.

Spare Sockets fig. 472 No. 20, \$ .80 each.

Spare Globes, \$1.20 each.

## 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 Fig. 276 double contact socket.

Nos. 2, 4 and 6 fitted with Fig. 222 medium screw socket.

WITH DEEP HOLOPHANE GLOBE

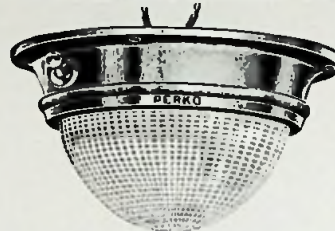


Fig. 454

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

No.	Polished Bronze Each	Chromium Plated Each	Spare Globes Each	Spare Sockets Each
1	\$10.50	\$12.50	\$1.25	\$ .60
2	16.00	18.50	4.50	.60

WITH SHALLOW HOLOPHANE GLOBE



Fig. 555

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

No.	Polished Bronze Each	Chromium Plated Each	Spare Globes Each	Spare Sockets Each
3	\$10.50	\$12.50	\$1.25	\$ .60
4	14.50	17.00	2.50	.60

WITH SHALLOW FROSTED GLOBE



Fig. 460

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

No.	Polished Bronze Each	Chromium Plated Each	Spare Globes Each	Spare Sockets Each
5	\$10.50	\$12.50	\$1.25	\$ .60
6	14.50	17.00	2.50	.60

Dome Lights No. 2 and 4 will accommodate a 50 watt A-19 bulb. No. 6 a 15 watt A-17 bulb.

Above prices do not include bulb.





**Dome Lights**

WITH FIG. 257 HOLOPHANE GLOBES  
TOGGLE SWITCH—DOUBLE CONTACT SOCKET



Fig. 294

Wrought Brass with Nickel Plated Reflector.

Diam. Glass Inches	Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Depth Overall Inches
3	\$4.50	\$6.25	4 1/4	1 3/4
4	5.50	7.25	5 1/2	1 7/8
5	6.25	8.25	6 5/8	2 3/4
6	8.00	10.00	7 1/2	2 3/4

Spare sockets, see fig. 747.

**Dome Lights**

WITH FIG. 132 FROSTED GLOBES  
TOGGLE SWITCH—DOUBLE CONTACT SOCKET



Fig. 296

Diam. Glass Inches	Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Depth Overall Inches
3	\$4.50	\$6.25	4 1/4	1 3/4
4	5.50	7.25	5 1/2	1 7/8
5	6.25	8.25	6 5/8	2 3/4
6	8.00	10.00	7 1/2	2 3/4

Spare sockets, see fig.

**Dome Lights**

WITH OPAL GLOBES—TOGGLE SWITCH  
DOUBLE CONTACT OR STANDARD  
SCREW SOCKET



Fig. 385

With fig. 276 Double Contact Socket

No.	Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Diam. Globe Inches	Depth Inches
7	\$5.50	\$7.25	6	4 1/4	2 1/4
8	7.50	9.50	7	5 1/2	2 3/4

With fig. 346 Standard Screw Socket

No.	Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Diam. Globe Inches	Depth Inches
9	8.00	10.00	7	5 1/2	2 3/4

Bulb with standard screw base for this light, see Fig. 8. Spare globes, see Fig. 133.

SPARE TOGGLE SWITCHES FOR ALL ABOVE LIGHTS, SEE FIG. 745

**Dome Lights**

WITH FIG. 132 FROSTED GLOBES  
TOGGLE SWITCH—STANDARD SCREW SOCKETS

Wrought brass without flange for installation in narrow places or with flange where desired.

Nickel plated reflectors wired ready for installing.

Will allow use of single 75 watt bulb.

WITH FLANGE



Fig. 753

With Single fig. 346 Socket

Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Diam. Glass Inches	Depth Overall Inches
\$16.00	\$18.50	9 5/8	8	3

WITHOUT FLANGE



Fig. 754

With Single fig. 346 Socket

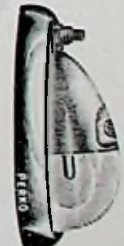
Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Diam. Glass Inches	Depth Overall Inches
\$13.75	\$16.00	7 1/2	8	3

**"Tear-Drop" Fixture**

CHROMIUM PLATED  
DOUBLE CONTACT SOCKET—TURN SWITCH



Front View



Side View

Fig. 301

An attractive fixture for cabin or berth. Has streamlined thick glass globe and supplied with 6 volt 21 C.P. bulb.

Complete Each	Spare Globe Each	Spare Socket Each	Spare Bulb Each	Overall Size Inches	Depth Inches	Weight Ounces
\$4.75	\$0.75	\$0.70	\$0.45	5 x 3	1 7/8	11





## Cargo Reflectors

HEAVY GAUGE STEEL—ENAMELED  
HINGED GUARDS WITH LOCKING DEVICE

Heavy duty portable lights for lighting holds, docks, piers, decks, etc.

The guard ring encircles the beaded rim of the reflector acting as a bumper protecting reflector and lamps from damage.

The single lamp reflector has an exclusive feature in a spring suspended socket providing a shock absorbing action to protect lamp filaments and prolong lamp life.

The cluster type permits continuous operation in event of individual lamp failure. Clusters are easily removable for wiring. Approved waterproof glands and gasketed clusters make these units weatherproof.

Reflectors are finished in enamel, black outside, glossy white inside. Guards are plated.

### SINGLE LAMP TYPE MOGUL SOCKET



Fig. 36

No.	Each	Diam. Reflector Inches	Watts	Weight Pounds
1	\$18.50	15½	300-500	9
2	22.00	17½	750-1000	15

### CLUSTER TYPE PHENOLIC MEDIUM SCREW SOCKETS



Fig. 37

No.	Each	No. Lamps	Diam. Reflector Inches	Watts	Weight Pounds
3	\$20.00	4	18	60-150	14
4	22.00	5	18	60-150	14

## Watertight Hand Portables

CAST BRONZE—WOOD HANDLE  
D. C. SOCKET—NAVY GLOBE 9-S-3129-L

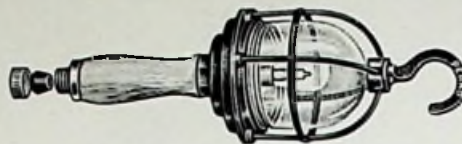


Fig. 1256

Complete Each	Spare Globes Each	Extreme Length Inches	Extreme Diameter Inches	Weight Pounds
\$8.50	\$1.30	13	4¼	2¾

Spare sockets, see fig. 472 No. 20, \$ .80 each.

## Watertight Hand Portables

CAST BRONZE—WOOD HANDLE  
MEDIUM SCREW SOCKET—THREADED GLOBE



Fig. 1180

No.	Complete Each	Spare Globes Each	Wattage	Overall Length Inches	Length Globe Inches
1	\$8.50	\$1.00	25	13½	4
2	8.85	1.30	60	15½	6

## Hand Portable

WOOD HANDLE—NICKEL PLATED PARTS  
DOUBLE CONTACT SOCKET—N. W. T.

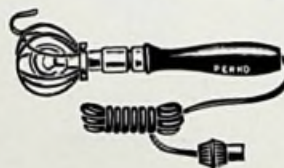


Fig. 1181

Furnished with 10 feet of rubber covered wire and double contact plug.

Each	Overall Length Inches	Length Handle Inches	Weight Ounces
\$3.75	8	4	7

## Dashboard Lamp

BRASS—NICKEL PLATED  
DOUBLE CONTACT SOCKET—WITH SWITCH

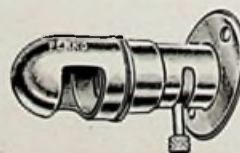


Fig. 184

Each	Height Overall Inches	Size Base Inches	Weight Ounces
\$1.25	2 7/8	1 1/8 x 1 1/2	1 1/2



## Mazda Lighting Bulbs

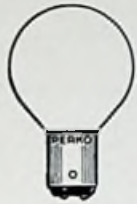


Fig. 337

Bulb No.	Diam. Inches	Length Overall Inches
1483	$\frac{1}{8}$	1
G-6	$\frac{3}{4}$	$1\frac{1}{4}$
S-6	$\frac{3}{4}$	$1\frac{3}{4}$
T-7	$\frac{7}{8}$	$2\frac{1}{2}$
S-8	1	2
S-11	$1\frac{3}{8}$	$2\frac{3}{8}$
PR-11	$1\frac{3}{8}$	$2\frac{1}{8}$



Fig. 340

Bulb No.	Diam. Inches	Length Overall Inches
T-10	$1\frac{1}{4}$	$5\frac{3}{8}$
S-14	$1\frac{3}{4}$	$3\frac{1}{4}$
A-17	$2\frac{1}{8}$	$3\frac{3}{4}$
A-19	$2\frac{3}{8}$	$3\frac{1}{4}$
A-21	$2\frac{3}{8}$	$4\frac{1}{4}$

Volts	Candle Power	No.	Base	Clear Each
2.7	.15 amp.	S-11	D. C.	\$1.40
4	.06 amp.	T-3 1/4	Miniature	.55
6	.04 amp.	1483	Miniature	.45
6-8	3	G-6	D. C.	.22
6-8	6	G-6	D. C.	.28
6-8	15	S-8	D. C.	.40
6-8	21	S-8	D. C.	.45
12-16	3	G-6	D. C.	.28
12-16	6	G-6	D. C.	.33
12-16	15	S-8	D. C.	.50
12-16	21	S-8	D. C.	.66
32	3	G-6	D. C.	1.05
32	6	G-8	D. C.	1.10
32	15	S-8	D. C.	1.25
32	21	PR-11	D. C.	1.25
110	6 watt	S-6	D. C.	.72
110	10 watt	S-8	D. C.	1.40
120	6 watt	S-6	Candelabra	.85
120	15 watt	T-7	Candelabra	.95

Packed, 10 bulbs to a box.

FOR DOME AND BERTH LIGHTS



Fig. 8

Bulb No.	Diam. Inches	Length Overall Inches	C. P. or Watts	Base	Clear Each
S-11	$1\frac{3}{8}$	$2\frac{3}{8}$			
6-8	S-11	21	Medium		\$1.40
12-16	S-11	21	Medium		1.50
32	S-11	15	Medium		2.50
120	S-11	15	Medium		2.00

Packed, 20 bulbs to a box.



Fig. 532

Eliminates the method of using two separate bulbs in two light electric installations. Lamps are always properly focused.

Should one filament burn out it will be indicated on the telltale panel, the other filament can be immediately switched into use.

Watts	Each	Height Overall Inches	Diam. Inches
50-50	\$5.50	5	$3\frac{1}{8}$
100-100	\$5.80	5	$3\frac{1}{8}$

Packed, 6 bulbs to a package.

## Mazda Searchlight Bulbs Fig. 24

Volts	Watts	Candle Power	No.	Base	Diameter Inches	Length Overall Inches	Each
6-8		32	PR-11	D. C.	$1\frac{1}{4}$	$2\frac{1}{8}$	\$ .60
6-8		50	PR-11	D. C.	$1\frac{3}{8}$	$2\frac{3}{8}$	.60
6-8		100	G-16 1/2	D. C.	$2\frac{1}{8}$	3	2.25
6-8	108	18 amp.	P-25	Medium	$3\frac{1}{8}$	$4\frac{3}{4}$	5.00
12-16		32	PR-11	D. C.	$1\frac{1}{4}$	$2\frac{1}{8}$	.75
12-16		50	PR-11	D. C.	$1\frac{3}{8}$	$2\frac{3}{8}$	.90
12-16		100	G-16 1/2	D. C.	$2\frac{1}{8}$	3	2.50
12-16	216	18 amp.	P-25	Medium	$3\frac{1}{8}$	$4\frac{3}{4}$	6.00
32		32	PR-11	D. C.	$1\frac{1}{4}$	$2\frac{1}{8}$	1.75
32		50	PR-11	D. C.	$1\frac{3}{8}$	$2\frac{3}{8}$	2.25
32	2.5 amp.	100	G-16 1/2	D. C.	$2\frac{1}{8}$	3	3.25
32	3.5 amp.	150	G-16 1/2	D. C.	$2\frac{1}{8}$	3	3.75
32	256	8 amp.	P-25	Medium	$3\frac{1}{8}$	$4\frac{3}{4}$	6.00
32	400		G-30	Medium	$3\frac{3}{4}$	$5\frac{1}{8}$	8.00
120	100		G-16 1/2	D. C.	$2\frac{1}{8}$	3	2.50
120	250		T-10	Medium	$1\frac{1}{4}$	$5\frac{1}{2}$	7.00
120	400		T-10	Medium	$1\frac{1}{4}$	$5\frac{1}{2}$	8.00
120	500		T-20	Medium	$2\frac{1}{2}$	$5\frac{1}{2}$	6.00
120	1000		T-20	Medium	$2\frac{1}{2}$	$5\frac{1}{2}$	9.00





## OIL FOUNTS AND ELECTRIC ADAPTERS ALL BRASS—FOR LIGHTS CLASS 3 AND SMALLER



Fig. 582



Fig. 588

### Delite Type

Fig.	Each	Diameter Inches	Weight Ounces	For Lights Figs.
582	\$1.25	2 3/4	4	01-04-05-08-09
588	2.00	2 3/4	4	01-010-04-05-040-050-08 09-080-090

Price of Fig. 582 does not include holder illustrated.

### Spring Type



Fig. 286



Fig. 736



Fig. 291



Fig. 292



Fig. 733

Fig.	Each	Diameter Overall Inches	Opening In Light Inches	Weight Per Dozen Pounds	For Lights Figs.
286	\$1.25	3 5/8	3 1/8	2 1/2	06-17-18-19-20-49 and 44, 8 inch size
291	2.00	3 5/8	3 1/8	3	06-12-17-18-19-20
292	2.00	3 5/8	3 1/8	3 1/2	06-12-17-18-19-20-49 and 44, 8 inch size
733 oil only	1.25	3 1/2	2 5/8	2	1
733 O. and E.	3.00	3 1/2	2 5/8	3 3/4	1
736	3.00	3 5/8	3 1/8	4 1/2	06-17-18-19-20

### Swivel Type



Fig. 287



Fig. 293



Fig. 274

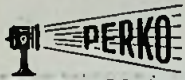


Fig. 735

Fig.	Each	Diameter Overall Inches	Opening In Light Inches	Weight Per Dozen Pounds	For Lights Figs.
274	\$2.00	4 1/2	4	4	02-11 and 44, 6 inch size
287	1.25	4 1/2	4	3	02 and 44, 6 inch size
293	2.00	4 1/2	4	4	02-11 and 44, 6 inch size
735	3.00	4 1/2	4	4 1/2	02

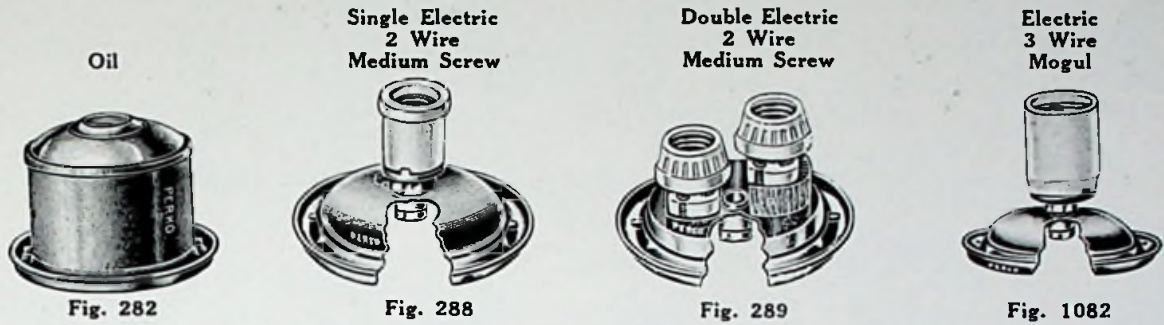
#### NOTES

- Oil burners and wicks, see Figs. 246 and 302.
- D. C. Electric sockets for Figs. 291 and 293, see Fig. 355.
- D. C. Electric sockets for Figs. 733, 735 and 736, see Fig. 276.
- D. C. Electric sockets and holders for Figs. 733, 735 and 736, see Fig. 458.
- Medium screw sockets for Figs. 274, 292 and 588, see Fig. 222.



**OIL FOUNTS AND ELECTRIC ADAPTERS**  
ALL BRASS—LIGHTS FOR VESSELS OVER 65 FEET LONG

**Swivel Type**



Size No.	Diameter Overall Inches	Diameter Opening In Light Inches	Fig. 282 Each	Fig. 288 Each	Fig. 289 Each	Fig. 1082 Each
1	4 3/4	3 3/4	\$2.00	\$3.00	\$3.00	\$5.25
2	5 3/4	4 3/4	3.00	3.00	\$5.00	5.25

Above are for the following lights.

Fount No.	SIDE LIGHTS		MASTHEAD LIGHTS		STERN LIGHTS		ANCHOR LIGHTS		BREAKDOWN LIGHTS	
	Light Fig.	Light Size	Light Fig.	Light Size	Light Fig.	Light Size	Light Fig.	Light Size	Light Fig.	Light Size
1	21	9-10	982	0-1	985	0-1	23	22-22 1/2	84	0-1
2	21	11	982	2	985	2	23	23	84	2
1	30	0-1	983	0-1	986	0-1	32	0-1	129	22-22 1/2
2	30	2	983	2	986	2	32	2	129	23
1	1155	0-1	1156	0-1	1157	0-1	1158	0-1	1159	0-1
2	1155	2-3	1156	2-3	1157	2-3	1158	2-3	1159	2-3

1 Also used in Fig. 44, 10 inch size; Figs. 407 and 408, No. 1.  
2 Also used in Figs. 59 - 80 - 407, No. 2; and 408, No. 2.

Spare Terminal Tubes for above adapters, \$ .65 each.

**Mounting Brackets**

FOR NAVIGATION LIGHTS  
GALVANIZED SHEET IRON AND BRASS



Fig. 131

No.	Galvanized Each	Brass Each	Width Inches	Height Inches
1	\$ .65	\$1.00	1 1/2	4 7/8
2	1.00		2	6 3/8

No. 1—For motor boat side and bow lights, Classes 1, 2 and 3.  
No. 2—For larger side lights, sizes 0, 1, 9 and 10.

**Mounting Brackets**

GALVANIZED SHEET IRON AND BRASS



Fig. 25

Galv. Each	Height Inches	Inside Width Inches
\$ .50	1 1/4	1 1/4

For mounting Royal Lights Fig. 89 to 92, inc.

**Mounting Brackets**

FOR NAVIGATION LIGHTS  
GALVANIZED CAST IRON



Fig. 135

Each	Height Overall Inches	Width Overall Inches	Width Bracket Inches
\$2.00	7 1/2	5 3/8	2 1/2

For large side lights, sizes 2, 3 and 11.

**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
\$1.00	\$1.25





## Fresnel Ball Globes

1 1/2 INCH DIAMETER

For pole lights, Figs. 600, 601, 602, 603, 846, 1145.



Fig. 604

Outside diameter 1 1/2 in.  
Height overall 1 7/8 in.  
Diameter of opening 1 1/4 in.  
Net weight, each 1 1/4 oz.

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

2 1/2 INCH DIAMETER

With threaded base, as illustrated, for pole lights, Figs. 362, 422, 482, 484, 491, 492, 498, 506, 531.



Fig. 250

Outside diameter 2 1/2 in.  
Height overall 2 3/8 in.  
Diameter of opening 1 1/2 in.  
Diameter of thread 2 in.  
Net weight, each 6 ozs.

Clear Each	Red Each	Green Each	Blue Each
\$1.50	\$2.00	\$2.00	\$2.00

3 INCH DIAMETER

With threaded base, as illustrated, for pole lights, Figs. 362, 422, 482, 484, 491, 492, 498, 506, 531.



Fig. 251

Outside diameter 3 in.  
Height overall 3 in.  
Diameter of opening 1 1/2 in.  
Diameter of thread 2 in.  
Net weight, each 7 oz.

Clear Each	Red Each	Green Each	Blue Each
\$1.50	\$2.00	\$2.00	\$2.00

3 INCH DIAMETER

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



Fig. 249

Outside diameter 3 in.  
Height overall 3 3/8 in.  
Diameter of opening 2 1/4 in.  
Diameter of thread 2 3/4 in.  
Net weight, each 10 ozs.

Clear Each	Red Each	Green Each	Blue Each
\$1.65	\$2.60	\$2.60	\$2.60

4 1/4 INCH DIAMETER

With threaded base, as illustrated.



Fig. 252

Outside diameter 4 1/4 in.  
Height overall 3 3/8 in.  
Diameter of opening 2 7/8 in.  
Diameter of thread 3 in.  
Net weight, each 10 ozs.

Clear Each	Red Each	Green Each	Blue Each
\$2.00	\$3.00	\$3.00	\$3.00

3 1/2 INCH DIAMETER

With threaded base for mast and stern lights, Figs. 112-113-309.



Fig. 106

Outside diameter 3 1/2 in.  
Height overall 5 in.  
Diameter of opening 2 3/4 in.  
Diameter of thread 3 1/4 in.  
Net weight, each 1 1/4 lbs.

Clear Each	Red Each	Green Each	Blue Each	Amber Each
\$2.25	\$4.00	\$4.00	\$4.00	\$4.00

## Special Mast Light Globe

2 1/4 INCH DIAMETER

With threaded base as illustrated for mast lights Figs. 488-489.



Fig. 77

Outside diameter 2 1/4 in.  
Height overall 5 1/2 in.  
Diameter of opening 1 1/2 in.  
Diameter of Thread 2 1/2 in.  
Net Weight Each 13 oz.

Clear Each	Red Each	Green Each	Blue Each
\$1.50	\$2.30	\$2.30	\$2.30

## Holophane Dome Glasses

SHALLOW

DEEP



Fig. 257



Fig. 258

Fig. 257 for Dome Lights Figs. 294-555-1147.  
Fig. 258 for Dome Lights Figs. 454-1158.

Trade Size Inches	Fig. 257 Each	Fig. 258 Each	Diam. Overall Inches	Fig. 257 Depth Inches	Fig. 258 Depth Inches
3	\$1.00		2 7/8	5/8	
4	1.25	\$1.25	4	5/8	1 3/4
5	1.65		5	1 1/2	
6	2.50	4.50	6	1 3/8	2 3/4

## Frosted Dome Glasses

SHALLOW



Fig. 132

For Dome Lights Figs. 296-460-753-754.

Trade Size Inches	Each	Diam. Overall Inches	Depth Inches
3	\$1.00	2 7/8	5/8
4	1.25	4	5/8
5	1.65	5	1 1/2
6	2.50	6	1 3/8
8	3.25	7 3/4	2 3/8

## Ribbed Opal Dome Glasses



Fig. 133

For Dome Lights, Fig. 385.

Outside Diam. Inches	Each	Extreme Depth Inches
4 1/4	\$2.25	1 1/8
5 3/8	3.50	1 3/8

## Opal Globe WITH FLANGE



Fig. 31

Diameter Overall Inches	Each	Extreme Depth Inches
2 3/4	\$ .75	1 1/2





### Fresnel Lenses

FOR SIDE AND COMBINATION LIGHTS  
112½ DEGREES

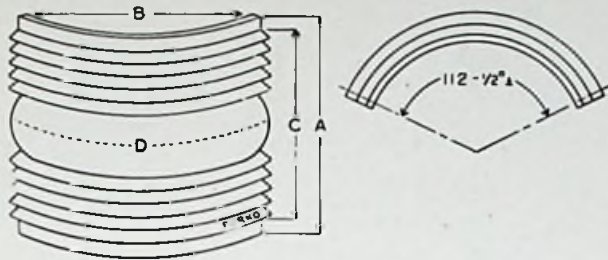


Fig. 259

For Motor Boats	A Inches	B Inches	C Inches	D Inches	Red or Green Each
Class A	2 1/8	1 3/4	2 1/8	3	\$1.00
Class 1	3 1/8	2 1/8	2 7/8	3 5/8	1.50
Class 2	4 1/4	3 1/8	3 1/4	4 3/4	2.10
Class 3	5 1/8	3 1/4	4 3/8	5 1/8	2.60

For Vessels over 65 ft.

No. 8	5 1/2	4 1/8	4 1/4	5 7/8	4.25
No. 0 or 9	5 1/2	5 3/4	5	8 1/8	6.00
No. 1 or 10	6 3/4	6	6	8 5/8	8.50
No. 2 or 11	7 1/2	8 1/2	6 3/8	11 3/8	11.75
No. 3	8 1/2	9 3/4	7 3/4	13	13.00

FOR BOW LIGHTS—180 DEGREES

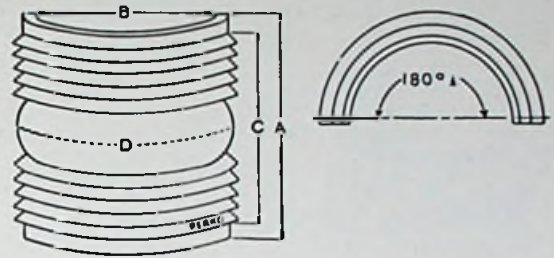


Fig. 260

For Motor Boats	A In.	B In.	C In.	D In.	Clear Each	Red or Green Each
Class 1	3 1/8	2 1/8	2 1/4	5 3/8	\$2.00	\$3.30
Class 2	4 1/4	3 1/4	3 5/8	6 3/8	2.10	3.30
Class 3	5 1/8	3 7/8	4 1/4	7 1/4	2.60	4.25
No. 16	7 3/8	6 3/8	6 3/8	12 3/8	10.50	14.50

No. 16 lens used in pier lights figs. 59, 125, 1005.

FOR MASTHEAD LIGHTS—225 DEGREES

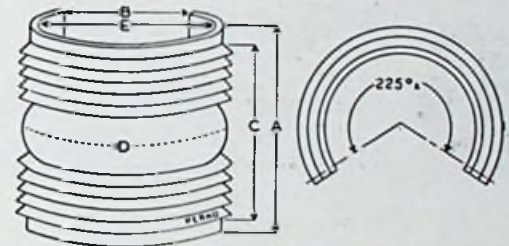


Fig. 256

For Vessels Over 65 ft.	A In.	B In.	C In.	D In.	E In.	Clear Each	Red or Green Each
No. 0	5 1/2	4	5	12 1/8	4 3/8	\$7.25	\$15.00
No. 1	6 3/4	4	6	12 1/8	4 1/2	9.25	17.00
No. 2	7 1/2	5 7/8	6 3/4	16 3/8	6 1/2	11.50	19.50
No. 3	8 1/2	6 1/8	7 3/8	18 3/8	7 3/4	13.75	22.50

FOR ANCHOR LIGHTS—360 DEGREES

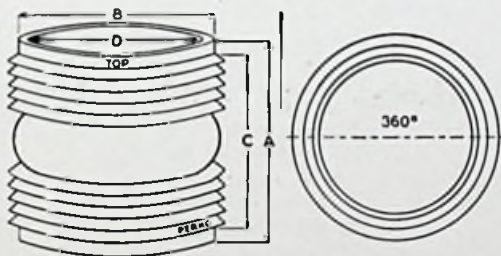


Fig. 261

For Motor Boats	A In.	B In.	C In.	D In.	Clear Each	Colored Each
Junior	3 1/8	3 1/8	2 7/8	2 3/4	\$1.50	\$2.00
Senior	4 1/4	4	3 1/8	3 1/8	2.00	3.00

For Vessels over 65 ft.

No. 0 or 22	5 1/2	5 1/4	5	4 3/8	6.00	10.50
No. 1 or 22 1/2	6 3/4	5 1/4	6 1/8	4 1/2	8.50	13.00
No. 2 or 23	7 1/2	7 1/2	6 1/4	6 1/2	10.50	15.75
No. 3	8 1/2	8 1/2	7 3/4	7 3/4	13.00	21.00

Colors are red, green, blue or amber.

FOR STERN LIGHTS—135 DEGREES

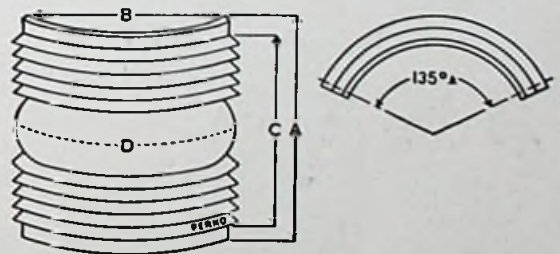


Fig. 269

For Vessels Over 65 ft.	A In.	B In.	C In.	D In.	Clear Each	Colored Each
No. 0	5 1/2	4 3/8	4 7/8	7 1/2	\$6.00	\$8.00
No. 1	6 3/4	4 3/8	6 1/8	7 1/2	6.50	8.50
No. 2	7 1/2	6 3/8	6 3/4	10	8.00	10.00
No. 3	8 1/2	7 1/2	7 3/4	11 1/4	10.00	12.00

Colors are red, green or blue.

DIMENSIONS SUBJECT TO GOVERNMENT STANDARD TOLERANCES—PLUS OR MINUS



### Marcy Hinge Burners

ALL BRASS—HEAVY PATTERN



Fig. 242

Used in all cabin lamps, large running lights, bulk-head lamps, etc.

No.	Per Dozen	Diam. Thread Inch	Wick Inch
2	\$14.40	1/4	3/8

### Marcy Lip or Dual Chimneys



Fig. 267

No.	Per Dozen	Height Inches	Diam. Bottom Inches
1	\$9.60	4 1/2	1 3/8
1	9.60	5	1 3/8
1	9.60	6	1 3/8
2	10.80	5	2 1/8
2	10.80	6	2 1/8

Specify height of chimney when ordering.

### Brass Burners



Fig. 246

No.	Per Dozen	Diam. Thread Inch	Wick Inch
0	\$3.00	7/8	1/2
1	3.50	7/8	5/8
2	5.20	1 1/4	7/8

No. 0 used in Class 1 lights.  
No. 1 used in Class 2 and 3 lights.

No. 2 used in larger lights.

### Eagle Chimney and Burner



Fig. 268

Used on Wall Lamp  
Fig. 312



Fig. 248

No.	Chimneys Per Dozen	Burners Per Dozen	Chimney Size Inches	Burner Thread Inches
2	\$10.80	\$7.80	2 1/8 x 7 1/2	1 1/4

### Wicks

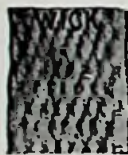


Fig. 302

Flat Wicks, No.	Width	Per Dozen
0	1/2 inch wide	\$ .48
1	5/8 inch wide	.60
2	3/4 inch wide	.84

### Long Time Burner and Chimney

HEAVY BRASS

Used in 10 Day Anchor Lights, Fig. 596

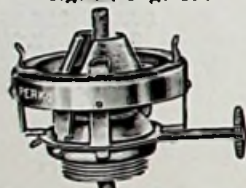


Fig. 245

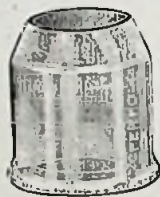


Fig. 272

Burners Per Dozen	Chimneys Per Dozen	Wicks Per Dozen	Height Chimney Inches	Diameter Chimney Inches
\$22.00	\$9.00	\$2.20	1 3/4	1 1/2

### Engineer's Lantern Globes

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

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



Fig. 263

Clear Per Doz.	Red Per Doz.	Green Per Doz.	Blue Per Doz.
\$6.00	\$12.00	\$12.00	\$12.00

Colored globes are solid colors, not painted.

### Navy Lantern Globes



Fig. 262

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

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

Clear Per Doz.	Red Per Doz.	Green Per Doz.	Blue Per Doz.
\$9.50	\$23.50	\$23.50	\$23.50

Colored globes are solid colors, not painted.

### Globe Light Globes

Used in Globe Lights Fig. 44.

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



Fig. 264

Size	Clear Each	Colored Each	Diameter		Height Overall Inches
			Top	Bottom	
6	\$2.50	\$5.50	3 1/8	3 1/8	6 3/8
8	4.50	7.50	4	4	7 1/2
10	7.00	10.50	5 3/8	5 3/8	10 1/8



## Lighting Switches

FOR ALL VOLTAGES FROM 6 TO 120

### TOGGLE TYPE BRASS—BAKELITE INSULATION



Fig. 745

With 2 lock nuts and 6" wire leads.

Each	Length Neck Inches	Diam. Neck Inches
\$ .60	1 1/8	1 1/8
Maximum	between lock nuts 1 1/8"	

With watertight cap and chain, add \$ .90 each.

Chromium plated, add \$ .25 each.

### TOGGLE TYPE WITH FACE PLATE BRASS—BAKELITE INSULATION

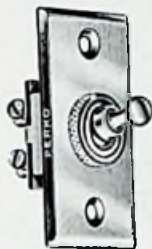


Fig. 718

Polished Brass Each	Chromium Plated Each	Size Face Plate Inches
\$ .80	\$ .95	1 x 1 1/8

## Push and Pull Switch

HEAVY DUTY—WITH IVORY KNOB

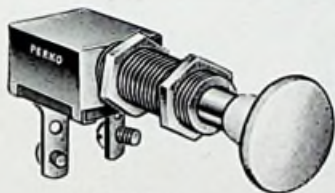


Fig. 94

Heavy duty 2 point 2 terminal with ivory tenite knob.

Neck for 7/8 inch wood, 5/8 inch hole.

Each ..... \$ .90

## Push and Pull Switch

WITH FUSE HOLDER—ALL BRASS

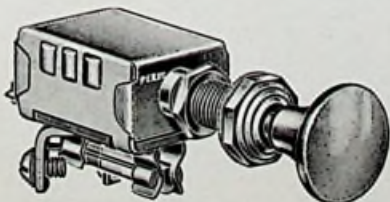


Fig. 254

With chromium plated knob.

Neck for 5/8 in. wood, 3/8 in. hole.

Each ..... \$1.50

## Momentary Starter Switch

OR DASHBOARD HORN BUTTON

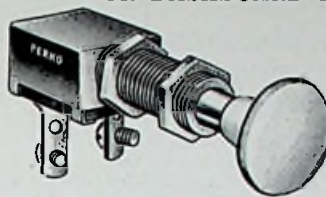


Fig. 255

2 point 2 terminal spring action switch with chromium plated button.

Neck for 7/8 in. wood, 5/8 in. hole.

Each ..... \$1.30

## Ignition Lock Switch

BRASS

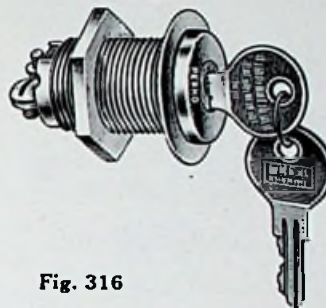


Fig. 316

2 terminal lock switch with two keys.

Neck for 1 inch wood, 7/8 inch hole.

Each ..... \$1.40

## Knife or Battery Switches

FIBRE BASE—SINGLE POLE—30 AMP.



Fig. 70

Single Throw Each	Double Throw Each	Size Base Inches
\$ .60	\$ .90	2 1/8 x 1 1/4

### FLAT TYPE



Fig. 74

Single Throw Each	Double Throw Each	Size Base Inches
\$ .60	\$ .90	2 1/8 x 1 1/8

## Fuse Panel

BAKELITE—BRASS METAL PARTS  
FOR GLASS FUSES UP TO 30 AMP.



Fig. 694

No. 1 for one active fuse and one spare.  
No. 2 for two active fuses and one spare.

No.	Each	Length Inches	Width Inches	Thickness Inches	Length Fuse Inches
1	\$ .60	2 1/4	1	1/8	1 1/4
2	.80	2 1/4	1 3/8	1/8	1 1/4





**STANDARD MARINE RECEPTACLES AND PLUGS**  
**WATERTIGHT — CAST BRONZE BOXES — POLARIZED — 10 AMP. 125 VOLTS**

**Plugs for Receptacles**  
**BAKELITE BODY—BRASS FITTINGS**



Fig. 1260

Type	Each	Overall Length Inches	Diam. Body Inches	Weight Ounces
2 wire	\$1.50	2 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	4
3 wire	2.40	2 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	4

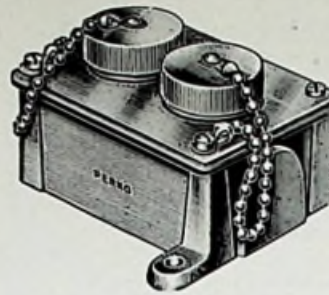


Fig. 1265

GANG TYPE		Each
2 wire only		
2 gang		\$7.25
3 gang		9.75
4 gang		14.50

Gang	Size Inches	Weight Pounds
2	4 <sup>1</sup> / <sub>8</sub> x 3 x 2	3
3	6 <sup>1</sup> / <sub>4</sub> x 3 x 2	3 <sup>3</sup> / <sub>4</sub>
4	8 x 3 x 2	5 <sup>1</sup> / <sub>4</sub>

**Receptacles**

FURNISHED UNTAPPED UNLESS SPECIFIED  
 MAXIMUM I. P. S. THREAD <sup>1</sup>/<sub>8</sub> INCH

**SURFACE TYPE**

2 wire only



Fig. 1262

Each	Diam. Inches	Height Inches	Weight Pounds
\$4.50	3	1 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>

**FLUSH TYPE**

2 wire only

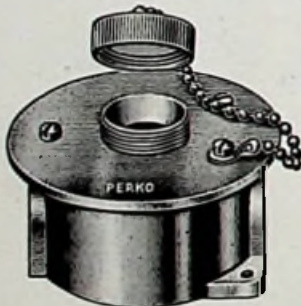


Fig. 1263

Each	Diam. Box Inches	Diam. Flange Inches	Depth Inches	Weight Pounds
\$6.75	3	4	1 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>

**RECTANGULAR TYPE**

2 and 3 wire

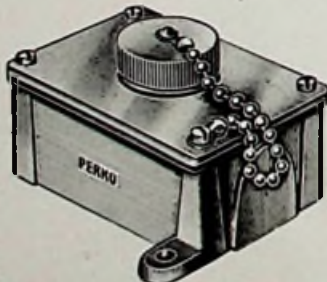


Fig. 1264

	Each	Size Box Inches	Weight Pounds
2 wire	\$5.25	4 <sup>1</sup> / <sub>8</sub> x 3 x 2	3
3 wire	7.25		

**Watertight Junction Boxes**  
**CAST BRONZE—SURFACE TYPE**

With rubber gasket.  
 For 4 way tapping.

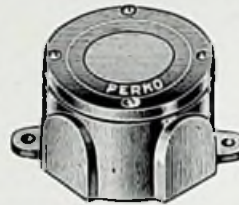


Fig. 1257

No.	Each	Inside Diam. Inches	Weight Pounds
1	\$3.25	2 <sup>1</sup> / <sub>4</sub>	
2	3.00	3	

No.	Inside Depth Inches	Weight Pounds
1	1 <sup>3</sup> / <sub>8</sub>	1
2	1 <sup>3</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>

**Watertight Connection Box**  
**CAST BRONZE—SURFACE TYPE**

With 4 wire phenolic connection block and rubber gasket.

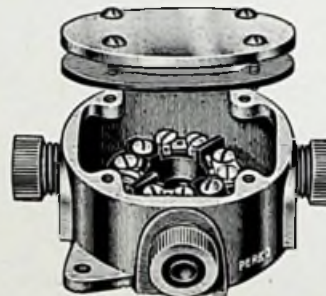


Fig. 1252

Complete Each	Spare Blocks Each	Inside Diam. Inches	Inside Depth Inches	Weight Pounds
\$5.25	\$1.50	3	1 <sup>3</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>

Price does not include packing glands in illustration.

**Watertight Fuse Box**  
**CAST BRONZE—SURFACE TYPE**

With fuse block for 2 glass fuses up to 30 amp., and rubber gasket.

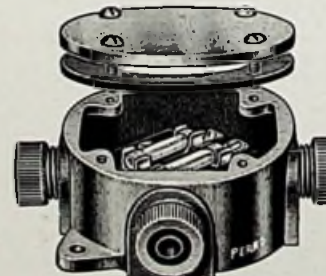


Fig. 1255

Complete Each	Spare Fuse Blocks Each	Inside Diam. Inches	Inside Depth Inches	Weight Pounds
\$5.25	\$1.50	3	1 <sup>3</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>

Price does not include fuses or packing glands in illustration.

ALL BOXES ABOVE CAN BE FURNISHED WITH PACKING GLANDS FOR CABLE ENTRANCE AS ILLUSTRATED ON FIG. 1255. ADD \$.90 FOR EACH GLAND. STATE NUMBER AND POSITION.



## YACHT SIZE RECEPTACLES AND PLUGS

WATERTIGHT — CAST BRONZE BOXES — VOLTAGE 6 TO 125

SMALL AND COMPACT AS PRACTICABLE FOR INSTALLATION WHERE SPACE IS LIMITED

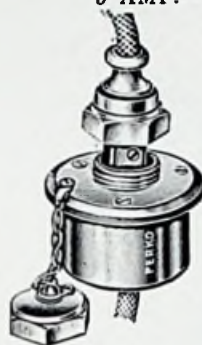
FLUSH TYPE WITHOUT BOX  
5 AMP.—2 WIRE



Complete With Plug Each	Plug Only Each	Diam. Plate Inches	Depth Inches
\$6.80	\$2.75	2 1/4	3/4

Fig. 968

FLUSH TYPE WITH BOX  
5 AMP.—BOTTOM INLET—2 WIRE

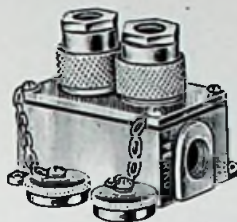


Complete With Plug Each	Plug Only Each	Diam. Plate Inches	Diam. Box Inches	Depth Box Inches
\$8.00	\$2.75	2 1/4	1 1/2	1 1/8

Fig. 969

HEAVY DUTY TYPE—10 AMP.—2 WIRE

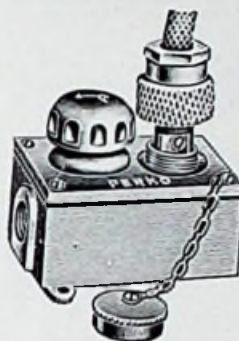
HEAVY DUTY TYPE—10 AMP.—2 WIRE  
DOUBLE



Complete With Plug Each	Plugs Only Each	Length Inches	Width Inches	Depth Inches
\$13.25	\$3.00	3 1/4	2 1/4	1 3/8

Fig. 972

HEAVY DUTY TYPE—10 AMP.—2 WIRE  
WITH TURN SWITCH



Complete With Plug Each	Plug Only Each	Length Inches	Width Inches	Depth Inches
\$13.25	\$3.00	3 1/4	2 1/4	1 3/8

Fig. 973

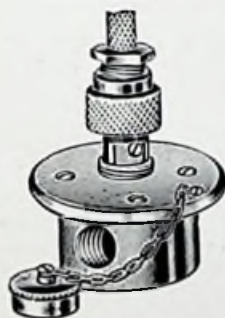


Fig. 970  
Flush Type



Fig. 971  
Surface Type

Fig. 970 Complete Each	Fig. 971 Complete Each	Plug Only Each	Diam. Plate Fig. 970 Inches	Diam. Box Fig. 971 Inches
\$9.50	\$9.00	\$3.00	3 1/2	2 3/4

Figs. 970 and 971 can be supplied for 3 wire circuit, add \$8.50 each.  
3 wire plugs only, \$3.65 each.

### Watertight Snap Switch

FLUSH TYPE OR SURFACE TYPE—10 AMP.  
2 WIRE

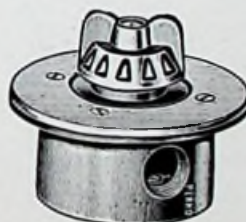


Fig. 974

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

	Flush Type	Surface Type
Single Pole Switch	\$9.75	\$8.00
Double Pole Switch	10.25	

### Watertight Push Buttons

CAST BRONZE



Fig. 978

With nickel silver springs, platinum contacts, rubber gaskets and pig skin cap over button. With screws.

Polished Bronze Each	Chromium Plated Each	Diam. Base Inches
\$4.80	\$6.00	2 3/8

### Watertight Push Buttons

CAST BRONZE

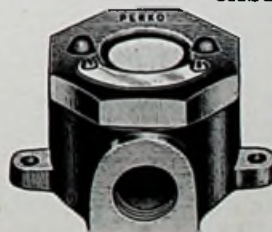


Fig. 975

Tapped one way for 1/2 inch conduit.

Each	Height Inches	Weight Pounds
\$5.25	1 3/4	1 1/4

Width Inches
2 1/4





**Watertight Connection**  
DOUBLE CONTACT

Deck Socket

All Metal Plug



Fig. 423



Fig. 425

**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.

	Polished Brass Each	Chromium Plated Each	Dimensions Inches
Socket Only	\$1.65	\$2.60	1 1/2 x 1 3/8
Plug Only	1.65	2.60	1 1/2 x 1

Spare electric sockets only, see fig. 747.

**Medium Screw Sockets**

PHENOLIC—250 VOLTS—660 WATTS  
APPROVED BY J. S. C. G. AND U. S. M. C.



Fig. 346

With 1/8 or 3/8 inch I. P. S. thread.

No.	Each	Size Thread Inches	Height Inches	Extreme Diameter Inches	Weight Dozen Pounds
1	\$ .50	1/8	1 1/8	1 3/8	1
2	.50	3/8	1 7/8	1 3/8	1

**Medium Screw Socket**

PHENOLIC—NAVY DRAWING 9-S-4836-L



Fig. 565

Each	Height Inches	Diameter Overall Inches	Mounting Slots Inches	C to C of Slots Inches	Weight Dozen Pounds
\$ .60	1 3/8	2 1/4	3/8	1 3/8	1 1/2

**Watertight Connection**  
BRASS—DOUBLE CONTACT



Fig. 477

Complete as illustrated, with rubber cork inside cap for cable.

Polished Brass Each	Chromium Plated Each	Composition Interiors Only Per Set	Size Inches
\$3.00	\$4.00	\$1.00	1 1/2 x 1 1/4

**Medium Screw Sockets**

PORCELAIN—250 VOLTS—660 WATTS



Fig. 222

No.	Complete Each	Rings Only Each	Gaskets Only Each	Height Inches	Size Base Inches	C to C of Slots Inches
1	\$ .60	\$.18	\$.10	1 5/8	2 x 1 1/4	1 1/2
2	.90	.18	.10	1 5/8	1 3/4 x 1 1/4	1 1/2

No. 1 size is standard.

No. 2 size has special small size base for Figs. 488 and 489 mast lights.

**Watertight Cable Outlet**  
BRASS—FOR 1/4 INCH CABLE



Fig. 424

Has rubber cork for watertight passage of cable through deck or bulkhead, also prevents chafing of cable insulation.

Polished Brass Each	Chromium Plated Each	Extreme Diameter Inches
\$1.00	\$2.00	1 1/4



## Mogul 3 Wire Socket

PHENOLIC—NAVY DRAWING 9-S-4779-L  
600 VOLTS—1500 WATTS



Fig. 270

For use with double filament bulb Fig. 532.

Each	Height Inches	Outside Diam. Inches	C to C of Mounting Holes Inches	Weight Ounces
\$2.25	2 $\frac{1}{16}$	2 $\frac{1}{8}$	1 $\frac{3}{8}$	6

With white metal mounting cap tapped  $\frac{3}{8}$  inch I. P. S. add \$ .30 each.

## Socket Supports

BRASS— $\frac{3}{8}$  INCH I. P. S. THREAD



Fig. 341

Used in Fig. 1150 series Navigation Lights for sockets Fig. 270 and 346.

No. 1 for Lights Sizes No. 1 and 2.  
No. 2 for Lights Size No. 3.

No.	Each	Height Inches	Size Base Inches	C to C of Holes Inches	Weight Ounces
1	\$ .90	1	$\frac{7}{8} \times 2 \frac{3}{4}$	2 $\frac{1}{8}$	1 $\frac{1}{2}$
2	1.20	2 $\frac{1}{4}$	$\frac{7}{8} \times 2 \frac{3}{4}$	2 $\frac{1}{8}$	3

## 6 Light Candelabra Unit

TYPE A-D—SIMILAR TO NAVY TYPE  
USED IN BLINKER SIGNAL LIGHTS  
BRASS—PHENOLIC INSULATION

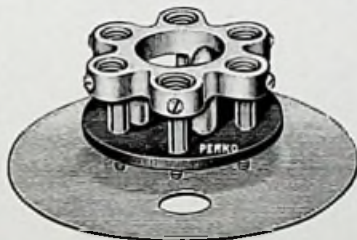


Fig. 845

For high speed signalling, used in our Fig. 403 blinker lights sizes 2-B and 3-C. In combination with 15 watt tubular bulbs, candelabra base, Navy No. TS-11 commercial No. T-7.

Each	Height Inches	Diam. Top Inches	Weight Pounds
\$4.50	1 $\frac{7}{8}$	3	1

## Candelabra Screw Socket

PHENOLIC—125 VOLTS—75 WATTS



Fig. 13

With brass base tapped  $\frac{3}{8}$  inch 24 S. A. E. thread.

Each	Height Inches	Diameter Inches	Weight Dozen Ounces
\$ .70	1 $\frac{3}{8}$	$\frac{1}{4}$	8

## Candelabra Screw Socket

PHENOLIC—NAVY DRAWING 9-S-2036-L



Fig. 15

Each	Height Inches	Weight Dozen Ounces
\$ .60	1 $\frac{1}{8}$	12

Size Base Inches: 1 x  $\frac{1}{2}$

## Bayonet Double Contact Socket

PHENOLIC—NAVY DRAWING 9-S-4634-L



Fig. 76

Each	Height Inches	Weight Dozen Ounces
\$ .85	1 $\frac{1}{8}$	16

Size Base Inches: 1 x  $\frac{1}{2}$

## Bayonet Sockets

PHENOLIC—SINGLE AND DOUBLE CONTACT

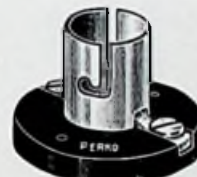


Fig. 472

No.	Each	Type	Height Inches	Diam. Base Inches	Weight Dozen Ounces
20	\$ .80	Double contact	1	1 $\frac{3}{8}$	9
21	.80	Single contact			

## Bayonet Double Contact Socket

BRASS CASE—TAPPED  $\frac{1}{8}$  INCH I. P. S.



Fig. 276

Used in our de-lite motor boat lights, classes 1, 2 and 3.

Each ..... \$ .60

## Socket Support

BRASS—FOR FIG. 276 SOCKET



Fig. 277

Threaded  $\frac{1}{8}$  inch I. P. S.  
Complete with screws for installing.

Each	Height Inches	Size Base Inches	Weight Dozen Ounces
\$ .60	$\frac{7}{8}$	$\frac{5}{8} \times 1 \frac{1}{2}$	6



**Bayonet Double Contact Socket**  
BRASS CASE—HARD RUBBER INSULATION



Each	Length Inches	Diam. Inches	Weight Dozen Ounces
\$ .35	1 1/4	1 1/8	6

Fig. 747

**Bayonet Double Contact Socket**  
FLANGED TYPE—BRASS AND HARD RUBBER



Each	Length Inches	Diam. Inches	Weight Dozen Ounces
\$ .50	1 1/4	1 1/8	9

Size Flange Inches: 1 1/8 x 1 1/2  
C to C of Holes Inches: 1 1/8

Fig. 377

**Bayonet Double Contact Adapter**  
ALL BRASS



Fig. 458

For adapting oil lights to combination oil and electric. Just remove burner from fount, place collar around threaded portion of burner and replace assembly in oil fount. Consists of double contact bayonet socket, collar and hollow nut.

Per Set, Complete.....\$1.45

**Bayonet Double Contact Adapter**  
BRASS AND HARD RUBBER



Fig. 355

For adapting oil fount to electricity. Screw adapter in place of oil burner and punch hole in bottom of fount for cable entrance.

Each	Overall Length Inches	Diam. Thread Inches	Weight Dozen Ounces
\$ .70	1 1/4	7/8	8

**Electric Adapters**



Fig. 405

No. 670 Medium screw to bayonet double contact, each	\$ .90
680 Medium screw to bayonet single contact, each	\$ .90
830 Medium screw to foreign bayonet double contact, each	\$ .90
X12 Mogul to medium screw, ea.	\$ .95

**Brass Dagger Connectors**



Fig. 283

These are furnished with Fig. 603 Pole Lights, and are very handy "pull apart" connectors for many other uses. Dimensions 1 1/2 x 1/8 inches.

Each .....\$ .25

**Double Contact Connectors**  
HARD RUBBER—BRASS CONTACTS



Fig. 749

Each	Size Inches	Weight Dozen Ounces
\$ .75	1 1/8 x 2 1/2	10

**Double Contact Plug and Socket**



Fig. 399

Plug and socket insulation is hard rubber.

All metal parts are brass.

Per Set	Size Flange In.	Outside Diam. Socket In.	Length Socket In.	Wt. Doz. Oz.
\$1.00	1 1/8 x 1 1/2	1 1/8	1 3/8	14

**Bayonet Double Contact Plugs**  
ALL METAL OR HARD RUBBER



All Metal  
Fig. 383



Hard Rubber  
Fig. 746

With flush type contact screws, used with sockets Figs. 76, 276, 377, 472, 747.

Fig. 383 all metal plug has large opening for 1/2 inch cable.

Fig. 383 Each	Fig. 746 Each	Length Inches	Diam. Fig. 383 Inches	Diam. Fig. 746 Inches	Weight Dozen Ounces
\$ .50	\$ .30	1 1/2	3/4	1 1/8	8

**Brass Cable Straps**

FOR CABLE, TUBING, CONTROL WIRE, ETC.



Fig. 121

Inside Diam. Inches	Per 100	Length Inches	Width Inches
1/8	\$1.65	1 1/8	1/2
1/4	1.85	1 1/4	1/2
3/8	2.00	1 3/8	1/2
1/2	2.00	1 5/8	1/2
5/8	2.10	1 3/4	1/2
3/4	2.30	1 7/8	1/2
7/8	2.50	1 7/8	1/2
1	3.00	1 3/4	1/2
1 1/8	3.30	1 7/8	1/2

FOR LEAD COVERED CABLE



Fig. 1076

Per 100	Size Inside Inches	Length Inches	Width Inches
\$3.25	1 1/2 x 1 1/8	1 1/8	1/2



## Life Preserver Light

APPROVED BY U.S.C.G.  
WITH RED LENS—NO BATTERY

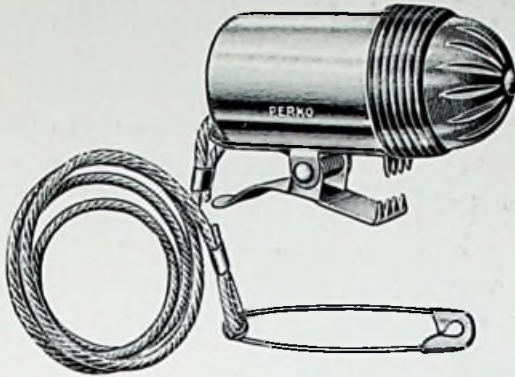


Fig. 10

Case is solid zinc, red lens is plastic and practically unbreakable.

Uses Mazda No. 131 bulb and operates on single type D 1 1/4 inch flashlight cell giving more than 12 hours of continuous light.

Supplied complete except battery.

Each	Length Inches	Weight With Battery Ounces
\$1.30	3 3/4	7

## Calcium Water Light

SELF LIGHTING—COPPER CASE



Fig. 843

Lights automatically and immediately on striking the water, gives a 250 candle power white light and burns for 45 minutes.

Each	Size Overall Inches	Weight Pounds
\$12.00	5x8	3

## Hand Flares

MOISTURE PROOF—APPROVED



Fig. 281

Will burn for not less than 2 minutes giving a brilliant flare of not less than 500 candle-power.

No.	Color	Per Dozen
1	Red	\$5.75
2	Blue	7.25
3	White	7.25
4	Green	7.25

## Bread Breaker Caps

CAST BRONZE



Fig. 72

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

Per Set	Extra Gaskets Each	Outside Diam. Cover Inches	Inside Diam. Opening Inches	Weight Each Pounds
\$5.50	\$ .30	5 3/4	4 3/4	2

## Watertight Distress Outfits

APPROVED—COPPER CASE—BRASS CAP



Fig. 844



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

Per outfit, complete ..... \$13.00  
Cans Only — Each ..... 9.25

Case is 10 1/2 inches high.

## Brass Axe Brackets

18 GAUGE—POLISHED

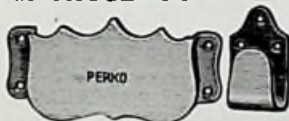


Fig. 325

A set consists of one blade socket and one handle bracket as illustrated.

Complete Sets Per Dozen	Blade Sockets Only Per Dozen	Handle Brackets Only Per Dozen	For Blade Width Inches	Weight Per Set Ounces
\$16.50	\$11.40	\$5.10	6	8

## Midget Distress Outfit

12 RED SIGNALS—FOR PLEASURE CRAFT



Fig. 514

For use in emergency on board motor and sail boats. Consists of 12 moisture proof red flares packed in moisture proof container.

Each ..... \$3.00





## Ditty Bags COMPLETE



Fig. 85

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

Complete, Each .....\$4.80

One box matches sewed in waterproof canvas, add \$.65.

## Steel Boat Bailers GALVANIZED—RIVETED HANDLE



Fig. 180

Each  
\$1.85

Diameter  
Inches  
8 1/4

Weight  
Pounds  
1

## Canvas Sea Anchors

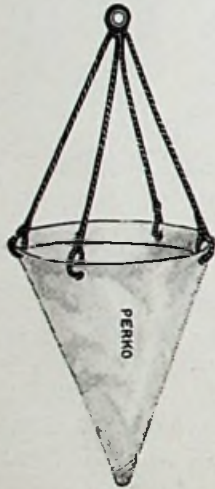


Fig. 517

Diam. Inches	Each	Length Inches
24	\$6.00	36
30	8.50	45
36	47.00	72

36 inch size approved by U. S. C. G. for use on life boats.

## "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.	4 1/2 in.
Length spout	4 in.	6 in.
Wt. per gross	40 lbs.	48 lbs.

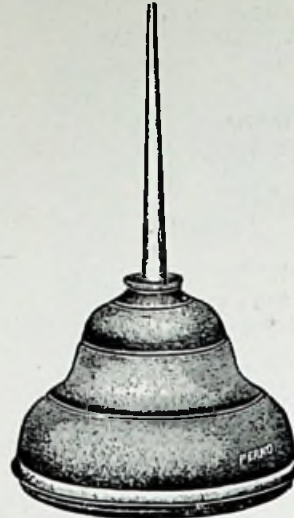


Fig. 326

No.	3	4	Per Gross
			\$118.00
			150.00

### EXTRA SPOUTS

No.	3	4	Per Gross
3	4 inch		\$34.00
4	6 inch		38.50

## Sail Makers Needles

FORGED CAST STEEL—POLISHED LONG SQUARE



Fig. 410

No.	Per 100	Length Inches	No.	Per 100	Length Inches
17	\$6.00	2	12	\$10.75	3 1/4
16	6.00	2 1/4	11	12.50	3 1/2
15	6.00	2 1/4	10	16.25	3 3/4
14 1/2	6.60	2 1/2	9	21.50	4
14	6.60	2 3/4	8	27.50	4 1/4
13	7.20	3	7	42.00	4 1/2

Packed 25 needles per package—only furnished in full packages.

## Storm Oil Container

FOR ATTACHMENT TO SEA ANCHORS GALVANIZED SHEET STEEL



Fig. 179

Complete with attaching ring, two brass pet cocks and filling cap.

Capacity, 1 gallon.

Each	Length Inches	Diam. Inches	Weight Pounds
\$4.60	15	8	1 1/2

## Sail Makers Palms

HIDE MOUNTED



Fig. 411

No.	Right Hand Per Doz.	Left Hand Per Doz.
2 Seaming—Half Hide	\$ 8.25	\$ 8.75
5 Seaming—Half Hide—Adjustable Buckle	11.00	11.50
6 Roping—Half Hide	12.00	12.50
7 Seaming—Heavy Hide—Adjustable Buckle	27.50	28.00
10 Seaming—U. S. Navy Type—Full Hide	28.50	29.00
11 Roping—U. S. Navy Type—Full Hide	30.75	31.25



## "Perko" "Beam" Searchlights

WITH CHROMIUM PLATED REFLECTOR  
6 OR 12 VOLTS—50 CANDLEPOWER  
BAYONET DOUBLE CONTACT SOCKET  
ENCASED WIRING—FOCUSING DEVICE  
WATERTIGHT GLANDS AT CABLE  
AND CONTROL ROD ENTRANCES  
RANGE—ABOUT ½ MILE

For higher power see notes below.

### Sunbeam

WITH PILOT HOUSE CONTROL—NO SWITCH

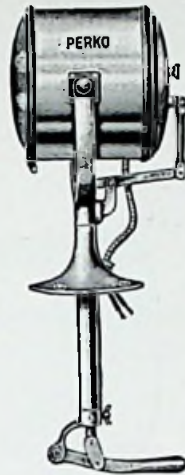


Fig. 306

No.	Polished Brass Each	Chromium Plated Each	Diam. Reflector Inches	Diam. Reflector Inches	Height Above Deck Inches	Diam. Base Inches
2	\$56.00	\$66.00	6	6 1/8	11	3 1/2
3	70.00	84.00	8	7 3/8	14	5 1/2
4	90.00	104.00	8	7	14	5 1/2

Length control rod below base, 10 inches.

No. 2 has knob control similar to Fig. 1022.

No. 4 has magnifying mirror reflector and 100 C. P. bulb, range about 3/4 mile.

### Sunbeam

DECK TYPE—WITH SWITCH

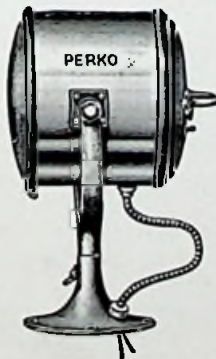


Fig. 305

No.	Polished Brass Each	Chromium Plated Each	Diam. Reflector Inches	Diam. Reflector Inches	Height Above Deck Inches	Diam. Base Inches
2	\$39.00	\$46.00	6	6 1/8	11	3 1/2
3	48.00	58.00	8	7 3/8	14	5 1/2
4	58.00	68.00	8	7	14	5 1/2

No. 4 has magnifying mirror reflector and 100 C. P. bulb.

## "Pathfinder" Searchlights

WITH CHROMIUM PLATED REFLECTOR  
6 OR 12 VOLTS—50 CANDLEPOWER  
BAYONET DOUBLE CONTACT SOCKET  
WATERTIGHT GLAND  
RANGE—ABOUT 1/3 MILE

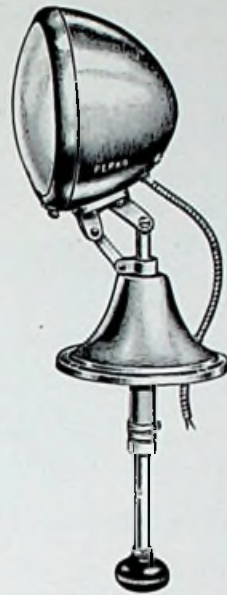


Fig. 1022

Pilot House Type

Fig.	Polished Brass Each	Chromium Plated Each	Diam. Lens Inches	Diam. Base Inches	Diam. Head Inches	Height Above Deck
1022	\$33.75	\$43.00	7	6 1/4	7 1/4	12
1023	26.00	33.50	7	6 1/4	7 1/4	13 1/2

Fig. 1022 length control rod below base 8 1/2 inches.

With Battery Attachment and Switch Swivel Head

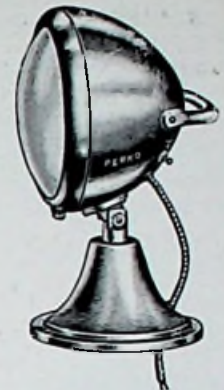


Fig. 1023

Deck Type with Switch



Fig. 1025

Fig. 1025 for Eveready Hot Shot No. 1562.  
Fig. 1027 for Burgess Uniflex No. 4F5H.

	Polished Brass Each	Chromium Plated Each	Diam. Lens Inches	Diam. Head Inches	Width of Attachment Eveready Inches	Burgess Inches
	\$26.00	\$33.75	7	7 1/4	5	4

Prices do not include battery.

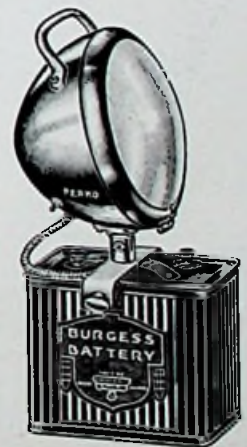


Fig. 1027

### NOTES

All lights on this page with 6 or 12 volt 100 C. P. bulbs, add \$1.75 each. With 32 volt 50 C. P. bulb, add \$1.75 each, 32 volt 100 C. P. bulb, add \$2.50 each. Spare lenses, reflectors, bulbs, etc., see pages 33 and 37. Spare D.C. sockets (give Fig. and size of searchlight) each \$ .70.





**“Perko” High Power Searchlights**

WITH MIRROR REFLECTOR—MEDIUM SCREW SOCKET  
 VOLTAGE—6, 12, 32, AND 120 VOLTS  
 PACKING GLANDS AT CABLE AND CONTROL ROD ENTRANCES

**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 great distance.  
**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.

**BULBS**—Bulbs furnished as standard equipment in various voltages are as follows—6 volts, 18 amps.; 12 volts, 18 amps.; 32 volts, 8 amps.; 120 volts, 500 watt. Can also furnish 32 volt, 400 watt and 120 volts, 250, 400 or 1000 watt bulbs for additional price. See notes below.



Fig. 480

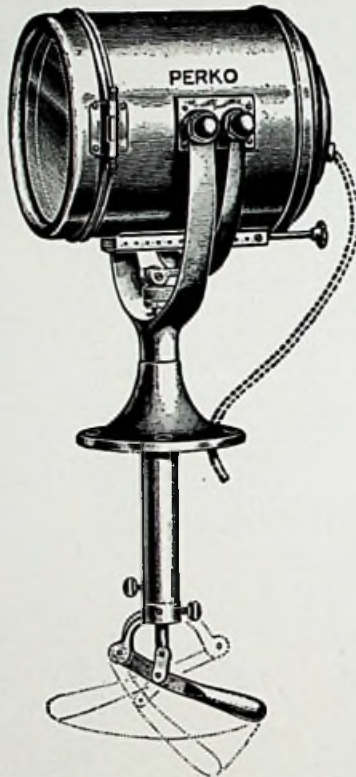


Fig. 297

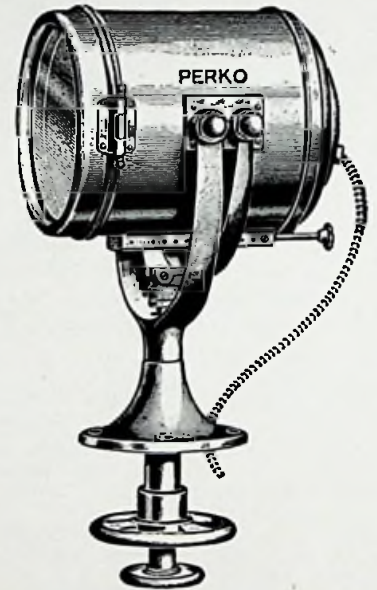


Fig. 529

Size Inches	Diameter Reflector Inches	Range	Beam Candle Power	Length of Body Inches	Clearance of Glass in Door Inches	Height Above Deck Inches	Weight Pilot House Type Pounds	Diameter of Base Inches
8	8	up to 3/4 mile	350,000	12 3/4	7 3/4	19	30	6 7/8
10	10	up to 1 mile	590,000	14 3/4	9 1/2	21	34	6 7/8
12	12	up to 1 1/2 miles	700,000	17	11 3/4	24	41	6 7/8
14	14	up to 2 miles	850,000	19	13 1/2	26	56	8 1/8

Size Inches	Fig. 480		Fig. 297		Fig. 529	
	Polished Brass Each	Chromium Plated Each	Polished Brass Each	Chromium Plated Each	Polished Brass Each	Chromium Plated Each
8	\$145.00	\$165.00	\$165.00	\$195.00	\$185.00	\$215.00
10	165.00	190.00	190.00	220.00	205.00	235.00
12	205.00	235.00	225.00	260.00	240.00	275.00
14	255.00	285.00	275.00	310.00	295.00	330.00

**NOTES**

With 32 volt 400 watt bulb, add \$2.00 each.  
 With 120 volt 250 or 400 watt bulb, add \$1.25 each.  
 With 120 volt 1000 watt bulb (special construction) price on application.  
 Spare bulbs, reflectors, lenses etc. See pages 33 and 37.  
 Special length of pilot house control to order, price on application.  
 Spare medium screw sockets, \$ .80 each.



## Mirror Reflectors FOR SEARCHLIGHTS



Fig. 427

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

Diam. Inches	Each	Style	For Searchlights Fig. and Size
7	\$10.00	Mangin	305-306 No. 4
8	20.00	Parabolic	297-480-529-8 inch
10	22.00	Parabolic	297-480-529-10 inch
12	27.50	Parabolic	297-480-529-12 inch
14	37.50	Parabolic	297-480-529-14 inch

## Metal Reflectors FOR SEARCHLIGHTS BRASS—CHROMIUM PLATED



Fig. 428

Extreme Diam. Inches	Each	For Searchlights Fig. and Size
6 1/8	\$6.25	305-306 No. 2
7	6.50	1022-1023
7 7/8	7.25	305-306 No. 3

Cork Gaskets for Reflectors, \$ .55 each.

## Front Lens FOR SEARCHLIGHTS



Fig. 429

Diam. Inches	Each	Style	For Searchlights Fig. and Size
6	\$1.70	Convex	305-306 No. 2
7	1.85	Convex	1022-1023-1025-1027
7 3/4	2.00	Convex	305-306 Nos. 3 & 4
8 3/8	2.25	Flat	297-480-529-8 inch
10 1/4	2.60	Flat	297-480-529-10 inch
12 1/4	3.25	Flat	297-480-529-12 inch
14 1/4	4.25	Flat	297-480-529-14 inch

## Floodlights

ENCLOSED — WEATHERPROOF  
An economically priced line with choice of types to fill most requirements.

CLAMP TYPE  
with Mogul Socket

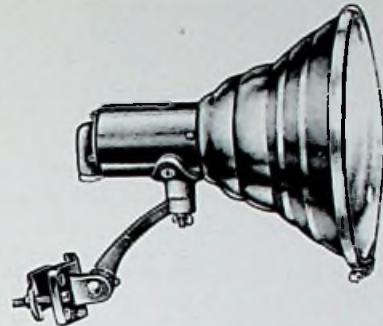


Fig. 227

With polished spun aluminum reflector and heat resisting glass lens. Cast aluminum bracket, spun aluminum housing.

For mounting on wall, cross arm or pipe up to 2 1/2 inches.

Each	Diam. Lens Inches	Length Housing Inches	Maximum Wattage	Weight Pounds
\$22.00	12	14	500	7

Mogul to medium screw adapter, see Fig. 405 No. X-12.

DECK TYPE  
with Medium Screw Socket



Fig. 228

With glossy white enameled reflector and weather-proof sealed lens, gray tone enamel exterior. 6 foot approved cord and plug.

Each	Diam. Lens Inches	Length Base Inches	Diam. Housing Inches	Maximum Wattage	Weight Pounds
\$7.00	7 1/2	8	4 1/4	100	3

UTILITY TYPE  
with Medium Screw Socket



Fig. 229

With ball bearing casters for use in boat yards, shops, docks, etc.

Glossy white enameled reflector, sealed lens, lens guard and 20 feet of service cord with plug.

Each	Diam. Lens Inches	Length Housing Inches	Maximum Wattage	Weight Pounds
\$10.00	7 1/2	8	100	5 1/2



## "Star" Oil Compasses

WITH DIAMOND POLISHED JEWEL BEARING



Fig. 487

Has several exclusive features such as special alloy magnets that hold their magnetic charge indefinitely, hand treated non warping dial, a barometer type diaphragm for expansion and contraction and a hand polished pivot.

A guaranteed trouble and bubble proof compass.

Trade Size Inches	Exact Diam. Card Inches	With Box Each	Size of Box Inches	Diam. Trunions Inches
2	2 $\frac{1}{8}$	\$12.10	4 $\frac{3}{8}$	4 $\frac{1}{4}$
2 $\frac{1}{2}$	2 $\frac{3}{8}$	13.75	5 $\frac{3}{8}$	4 $\frac{3}{4}$
3	3 $\frac{1}{8}$	18.70	6 $\frac{1}{4}$	5 $\frac{1}{4}$
4	4	24.20	7 $\frac{1}{4}$	6 $\frac{3}{8}$
5	4 $\frac{3}{4}$	31.35	8 $\frac{1}{2}$	7 $\frac{1}{8}$
6	5 $\frac{1}{4}$	39.60	9 $\frac{1}{2}$	8 $\frac{1}{8}$

NOTE—2 inch size in round bakelite box. All other sizes in square mahogany box.

## "Star" Semi-Dome Oil Compasses

UNDERLIGHTED — MAGNIFYING



Fig. 823

Trade Size Inches	With Box Each	Diam. Card Inches	Diam. Trunions Inches
3	\$30.00	4	6 $\frac{3}{8}$
4	36.00	4 $\frac{3}{4}$	7 $\frac{1}{8}$
5	43.00	5 $\frac{1}{4}$	8 $\frac{1}{8}$

## "Ritchie" Globe Spirit Compass

UNDERLIGHTED



Fig. 988

The spherical dome magnifies the card and provides unusual stability. Non-glare and non-shadow under-lighting.

Trade Size Inches	Without Box Each	Diameter Gimballed Ring Inches
5	\$125.00	6 $\frac{1}{8}$
6	142.00	8 $\frac{3}{8}$

## "Ritchie" Spirit Compasses

REGULAR FLAT TOP



Fig. 987

Marked to 360 degrees with cardinal and intercardinal points.

"Ritchie" compasses are known throughout the world for dependability.

Trade Size Inches	Exact Diam. Card Inches	Regular Type Each	Under-lighted Type Each	With Mahogany Box Add Each	Diam. Gimballed Ring Inches
4	4	\$46.50	\$68.00	\$ 9.00	6
5	4 $\frac{1}{2}$	52.00	79.00	11.00	6 $\frac{7}{8}$
6	5 $\frac{1}{4}$	62.00	90.00	13.50	8 $\frac{3}{8}$

Price does not include box.

## "Star" Pathfinder Compasses

WITH MAGNETIC COMPENSATOR  
INDIRECT ILLUMINATION  
MAGNIFIED DIAL



Bulkhead Type  
Fig. 33



Shelf Type  
Fig. 34

Fig.	Each	Diam. Face Inches	Depth Inches	Height Overall Inches	Size Base Inches	Weight Ounces
33	\$13.25	2 $\frac{1}{4}$	2 $\frac{1}{4}$	4	3	11
34	13.25	2 $\frac{1}{4}$	2 $\frac{1}{4}$	4 $\frac{1}{2}$	2 $\frac{3}{8}$	12





**Cruiser Binnacle**

WROUGHT BRASS—TWO PIECE

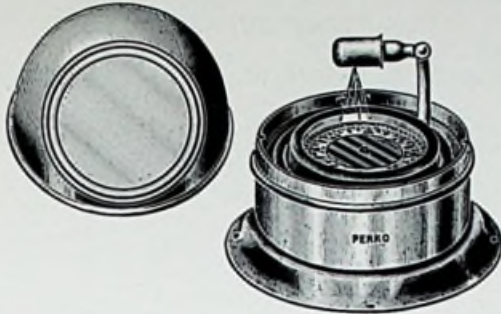


Fig. 401

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 internal catch.

For Size Compass Inches	Height Overall Inches	Inside Diam. Inches	Diam. Base Inches	Between Compass Supports Inches	Weight Less Compass Pounds
3	6 1/2	5 3/8	6 3/4	4 7/8	1
4	7 1/2	6 1/2	9	6	1 1/2
5	8 3/4	7 3/8	10	7 3/8	2 3/4

For Size Compass Inches	Without Compass Polished Brass Each	Compass Chromium Plated Each	With Oil Polished Brass Each	Compass Chromium Plated Each
3	\$28.00	\$32.75	\$45.50	\$50.25
4	31.00	37.00	53.50	59.50
5	34.50	41.75	63.50	70.75

**Improved Course Protractor**

INDICATES COURSE AND REVERSE COURSE TRANSPARENT

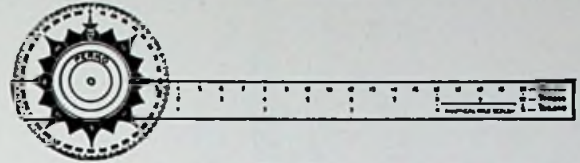


Fig. 706

Arm has various mileages scales used on all coastal and harbor charts.

Arm extended on short end to show reverse course.

A precision instrument, accurate in detail. Positions, depths, etc., are clearly visible when covered by protractor.

Each	Extreme Length Inches	Diam. Compass Card Inches
\$3.00	21 1/2	6 3/8

**String Protractor**

TRANSPARENT

For use where space is limited.

Size, 4x4 inches.

Each .....\$1.00



Fig. 697

**Skylight Binnacle**

BRASS

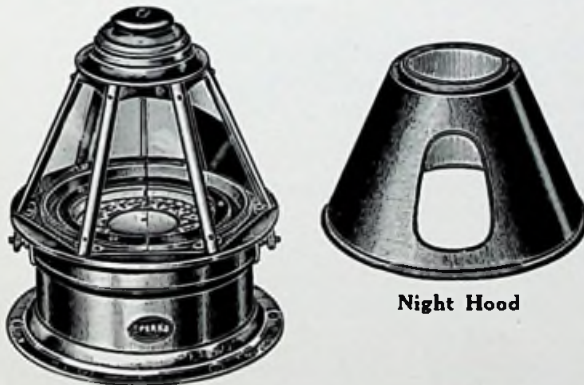


Fig. 534

Extra heavy brass throughout. Complete with night hood and electric lamp.

No.	For Size Compass Inches	Height Overall Inches	Inside Diam. Inches	Diam. Base Inches	Between Compass Supports Inches
1	4	11	6 1/2	10	6
2	5	11 3/4	7 1/2	10	7 3/8

No.	Without Compass Polished Brass Each	Compass Chromium Plated Each	With Oil Polished Brass Each	Compass Chromium Plated Each
1	\$57.50	\$69.50	\$80.00	\$92.00
2	62.00	74.50	91.00	103.50

**Parallel Rules**

NATURAL EBONY FINISH



Fig. 686

Furnished in natural ebony finish with brass bars and finger grips.

Length Closed Inches	Each
12	\$4.00
15	4.75
18	5.75

**Dividers**

BRASS—NICKEL-PLATED



Fig. 693

Length, 6 inches, each.....\$2.25

ALL ABOVE BINNACLES REGULARLY FURNISHED WITH OIL COMPASS FIG. 487. IF OTHER TYPES OF COMPASSES ARE DESIRED, ADD DIFFERENCE IN PRICE BETWEEN FIG. 487 AND OTHERS.



### Electric Compass Light

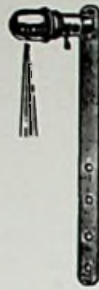


Fig. 707

To be mounted on compass box for illuminating compass at night, a shield is furnished over the bulb to eliminate glare, shield has small hole sufficient to illuminate proper portion of compass card.

Polished Brass Each	Chromium Plated Each	Height Overall Inches
\$3.25	\$3.90	8

### Yacht Log Books

100 PAGES—NEAT PRINTING



Fig. 708

In addition to pages for log data, these books contain useful information such as extracts from Bowditch Practical Navigator on symbols for weather, state of sea, cloud formations, force of wind, etc.

No. 1 Binding: Imitation leather, pebble finish, star-board green color, gold letters, without gold border. Each .....\$3.00

No. 2. Binding: Imitation leather, pebble finish, pilot blue color, gold letters and gold border. Each .....\$4.00

### 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	\$6.50	\$12.00
4	36	8.00	13.75

### "Perko" Wing Pumps

DOUBLE ACTION—ALL BRONZE

FOR MARINE, INDUSTRIAL AND DOMESTIC USE

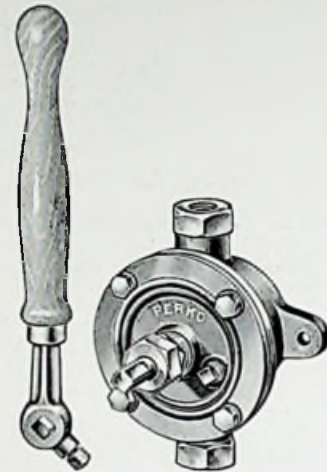


Fig. 681

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.

EFFORTLESS OPERATION—HARDWOOD HANDLE

No.	Each	Size Pipe Connection Inches	Overall Diameter of Body Inches	Capacity Per Minute Gallons	Approx. Weight Each
0	\$38.00	1/2	5 1/8	5	11 1/2
1	42.00	3/4	5 3/4	7	14
2	49.00	1	6 5/8	9 3/4	19 1/2

Manufactured in U. S. A. by "Perko."



## "Perko" Ford Gear Pumps

ALL BRONZE  
FOR MODEL A FORD MOTOR CONVERSIONS

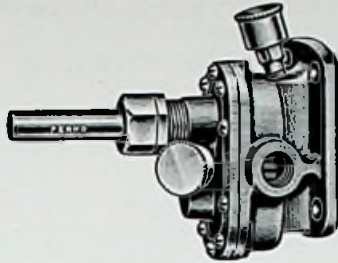


Fig. 530

Has a special mounting flange of the proper dimensions and exact drilling to permit installation in the same place and on the same mounting as the automobile water pump.

Furnished complete as illustrated.

With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Diam. Shaft Inches	Weight Pounds
\$19.00	\$23.00	3/8	1/2	4 1/2

## "Perko" Star Gear Pump

ALL BRONZE  
FOR STAR MARINE MOTOR CONVERSIONS

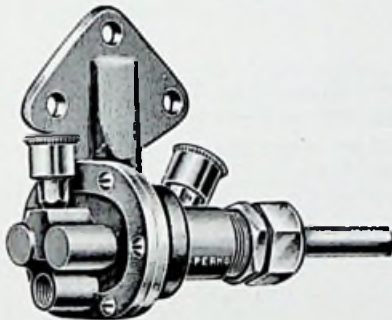


Fig. 804

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.

With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Diameter Drive Shaft Inches	Weight Pounds
\$18.50	\$22.50	3/8	1/2	4

## "Perko Rotoflex" Pump

SYNTHETIC NEOPRENE COMPOUND ROTOR  
ALL BRONZE BODY AND SHAFT  
BRASS GREASE CUPS

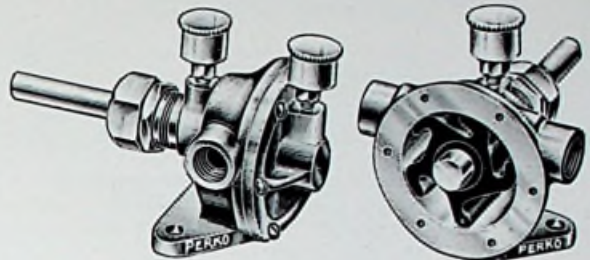


Fig. 696

Quiet operation — long continuous service — large capacity at low speed — for use with salt water, oil and tars. — Self priming. — Will pump in either direction.

The rotor is a synthetic compound of neoprene and other chemicals resulting in high resistance to abrasion or wear, is impervious to oil and other impurities. The vanes of the rotor are highly flexible yet tough enough to resist the wear encountered by the passage of sand and other foreign matter, produce the necessary high vacuum and stand the continuous flexing as the rotor revolves.

Lift in feet, 25 to 30.

Head in feet, 30 to 40.

Not to be used with synthetic solvents such as gasoline, naphtha, etc.

No.	Each	Spare Rotors Each	Size Pipe Connection Inches	Diam. Shaft Inches	Extreme Height Inches	Extreme Width Inches
2	\$12.00	\$1.50	3/8	1/2	3 3/8	3 1/2
3	\$15.75	\$2.25	1/2	3/8	3 3/4	4

Note — Several additional sizes will soon be in production.

No.	Extreme Length Inches	Dimensions Base Inches	Capacity G.P.M.			Weight Pounds
			600 R.P.M.	*1000 R.P.M.	1500 R.P.M.	
2	6 3/4	3 x 1 3/4	4.1	4.9	6.4	2 1/2
3	6 3/4	3 1/2 x 2	7.1	8.5	11.0	4

\*Recommended maximum for continuous duty. Capacity shown based on 0 lbs. pressure. with special length of shaft, price on application. Motor recommended 1/4 H.P.

## "Perko" Bronze Gear Pump Parts

Pump No.	Size Pipe Connection Inches	Cover Each	Spur Gear Each	Herringbone Gear Each	Body Each	Drive Shaft Each	Metal Pack Gland Each	Lock Nut Each	Pack Nut Each	Idle Gear Shaft Each
2	1/4	\$2.90	\$1.80	\$4.15	\$4.85	\$1.40	\$ .95	\$ .50	\$ .95	\$ .90
3	3/8	3.15	2.10	4.65	4.95	1.40	1.20	.65	1.05	.90
4	1/2	3.75	2.60	5.25	5.85	1.65	1.20	.65	1.05	1.35
7	3/4	4.35	3.45	8.25	7.20	1.65	1.20	.65	1.05	1.35
9	1	5.85	3.95	9.30	7.70	1.65	1.20	.65	1.05	1.35



## “PERKO” BRONZE GEAR TYPE PUMPS

NON CORROSIVE BRONZE THROUGHOUT WITH TOBIN BRONZE SHAFTS AND GEARS

The entire interior, including bearings, is tool machined, insuring perfect alignment and absolutely tight joints, blank bearing ends are solid (not soldered), all bearings are fully lubricated by brass grease cups. The drive shaft is in perfect alignment with the pump body. Pipe connections are Briggs standard pipe tap.

### Single Lower Drive Shaft

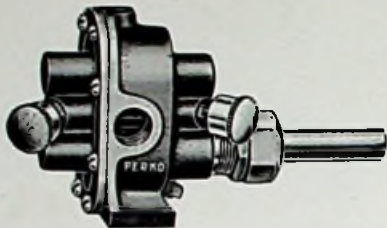


Fig. 684

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$11.00	\$13.20	1/4	1/2	3 3/4
3	12.65	15.65	3/8	5/8	5 1/2
4	13.75	17.00	1/2	3/4	6
7	16.50	21.50	3/4	3/8	9
9	18.15	23.00	1	3/8	9 1/2

### Single Upper Drive Shaft

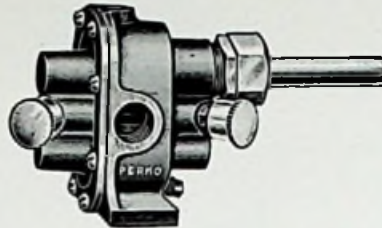


Fig. 682

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$11.00	\$13.20	1/4	1/2	3 3/4
3	12.65	15.65	3/8	5/8	5 1/2
4	13.75	17.00	1/2	3/4	6
7	16.50	21.50	3/4	3/8	9
9	18.15	23.00	1	3/8	9 1/2

PLEASE NOTE THAT WE ARE NOW SUPPLYING OUR GEAR TYPE PUMPS WITH HERRINGBONE GEARS WHEN DESIRED.



Pumps with herringbone gears are more quiet in operation than spur gear pumps. Are also more efficient in power consumption.

Herringbone gears operate in only one direction which must be specified, either clockwise or counter clockwise.

### Double Lower Drive Shaft

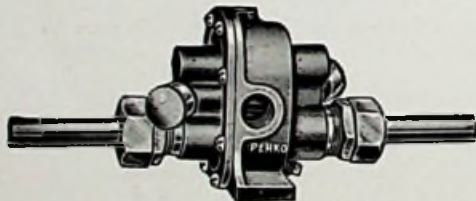


Fig. 685

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$12.65	\$15.00	1/4	1/2	4 1/2
3	13.75	17.00	3/8	3/8	6 1/4
4	15.00	18.70	1/2	3/8	6 3/4
7	18.15	23.00	3/4	3/8	9 1/2
9	19.25	24.75	1	3/8	9 3/4

### Double Upper Drive Shaft

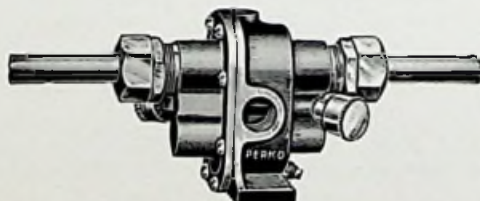


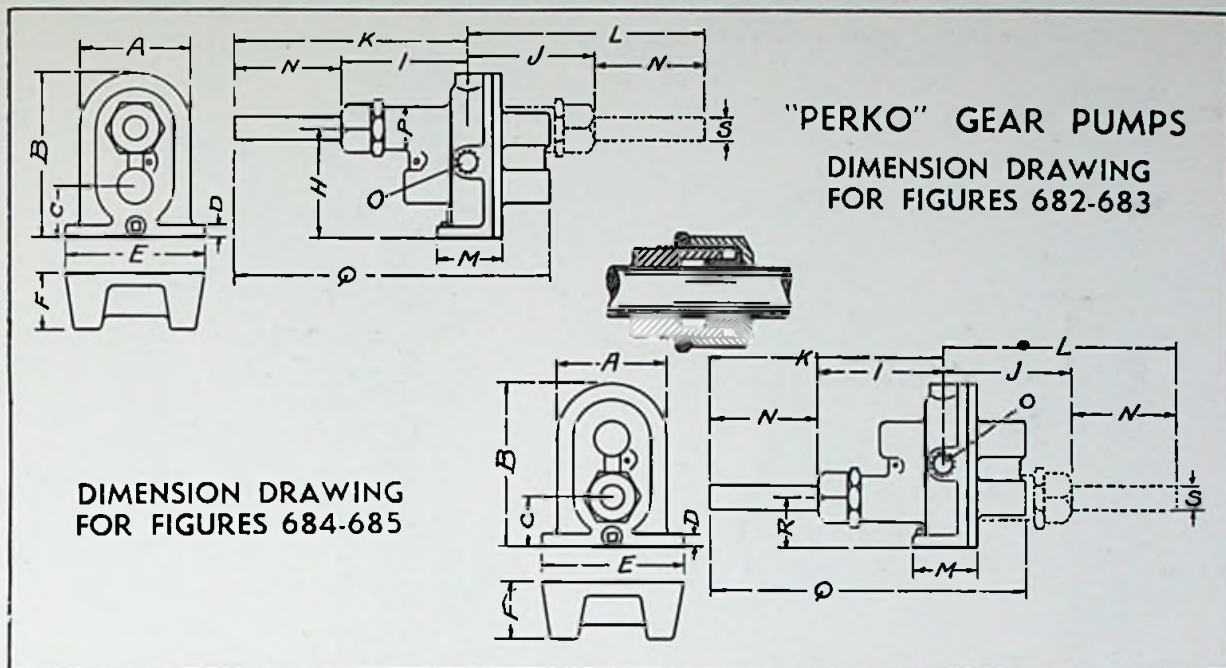
Fig. 683

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$12.65	\$15.00	1/4	1/2	4 1/2
3	13.75	17.00	3/8	3/8	6 1/4
4	15.00	18.70	1/2	3/8	6 3/4
7	18.15	23.00	3/4	3/8	9 1/2
9	19.25	24.75	1	3/8	9 3/4

For special lengths of shafts add \$.65 each, and then \$.60 for every six inches or fraction thereof beyond standard length.

NOTE—Don't fail to state figure number and pump number desired, also direction when herringbone gears are ordered





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

DIMENSION DRAWING  
FOR FIGURES 684-685

DIMENSION TABLE FOR "PERKO" GEAR PUMPS

Pump No.	A	B	C	D	E	F	H	I*	J*	K*	L*	M	N	O†	P	Q	R	S
2	2 $\frac{3}{8}$	3 $\frac{1}{2}$	1 $\frac{3}{8}$	$\frac{3}{8}$	2 $\frac{1}{8}$	1 $\frac{1}{4}$	2 $\frac{3}{8}$	2 $\frac{3}{8}$	2 $\frac{3}{8}$	4 $\frac{1}{8}$	4 $\frac{1}{8}$	1 $\frac{1}{4}$	2 $\frac{1}{8}$	$\frac{1}{4}$	1	6 $\frac{1}{8}$	1 $\frac{1}{8}$	$\frac{1}{2}$
3	2 $\frac{1}{4}$	4	1 $\frac{7}{8}$	$\frac{1}{4}$	3 $\frac{1}{2}$	1 $\frac{1}{4}$	2 $\frac{5}{8}$	2 $\frac{7}{8}$	2 $\frac{7}{8}$	5 $\frac{3}{8}$	5 $\frac{3}{8}$	1 $\frac{1}{4}$	2 $\frac{1}{2}$	$\frac{3}{8}$	1 $\frac{1}{8}$	6 $\frac{5}{8}$	1 $\frac{1}{8}$	$\frac{5}{8}$
4	2 $\frac{3}{4}$	4	1 $\frac{7}{8}$	$\frac{1}{4}$	3 $\frac{3}{8}$	1 $\frac{3}{8}$	2 $\frac{3}{8}$	3 $\frac{1}{8}$	3 $\frac{1}{8}$	5 $\frac{1}{8}$	5 $\frac{1}{8}$	1 $\frac{3}{8}$	2 $\frac{1}{2}$	$\frac{1}{2}$	1 $\frac{1}{8}$	7 $\frac{3}{8}$	1 $\frac{1}{8}$	$\frac{3}{8}$
7	3 $\frac{1}{4}$	5 $\frac{3}{8}$	2 $\frac{1}{8}$	$\frac{1}{4}$	4	1 $\frac{1}{2}$	3 $\frac{1}{8}$	3 $\frac{1}{8}$	3 $\frac{1}{8}$	5 $\frac{1}{8}$	5 $\frac{1}{8}$	1 $\frac{1}{8}$	2 $\frac{1}{2}$	$\frac{3}{4}$	1 $\frac{1}{8}$	7 $\frac{3}{8}$	1 $\frac{1}{8}$	$\frac{5}{8}$
9	3 $\frac{1}{4}$	5 $\frac{3}{8}$	2 $\frac{1}{8}$	$\frac{1}{4}$	4	1 $\frac{3}{8}$	3 $\frac{1}{8}$	3 $\frac{3}{8}$	3 $\frac{3}{8}$	5 $\frac{1}{8}$	5 $\frac{1}{8}$	1 $\frac{1}{8}$	2 $\frac{1}{2}$	1	1 $\frac{1}{8}$	7 $\frac{3}{8}$	1 $\frac{1}{8}$	$\frac{5}{8}$

Dimensions in inches—Standard Pumps. \*From center line of gear. †Briggs standard pipe tap.

CAPACITY TABLE FOR "PERKO" GEAR PUMPS

1200 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
2	3.	$\frac{1}{8}$	2.62	$\frac{1}{8}$	2.25	$\frac{1}{4}$	1.8	$\frac{1}{4}$	1.45	$\frac{1}{8}$
3	5.	$\frac{1}{8}$	4.25	$\frac{1}{4}$	3.7	$\frac{1}{8}$	3.2	$\frac{1}{2}$	2.8	$\frac{3}{4}$
4	7.5	$\frac{1}{4}$	6.3	$\frac{1}{8}$	5.4	$\frac{1}{2}$	4.6	$\frac{3}{4}$	3.8	1
7	13.5	$\frac{1}{8}$	11.5	$\frac{1}{2}$	9.9	$\frac{3}{4}$	8.75	1	7.7	1 $\frac{1}{2}$
9	17.	$\frac{1}{2}$	15.5	$\frac{3}{4}$	14.1	1 $\frac{1}{4}$	12.7	1 $\frac{1}{4}$	11.2	1 $\frac{1}{2}$

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
2	4.5	$\frac{1}{4}$	4.2	$\frac{1}{4}$	3.85	$\frac{1}{8}$	3.45	$\frac{1}{2}$	3.1	$\frac{1}{2}$
3	7.5	$\frac{1}{8}$	6.75	$\frac{1}{2}$	6.1	$\frac{3}{4}$	5.6	1	5.25	1
4	11.	$\frac{1}{2}$	10.	$\frac{3}{4}$	9.	$\frac{3}{4}$	8.2	1	7.3	1 $\frac{1}{2}$
7	16.*	* $\frac{1}{2}$	15.*	1*	13.3*	*1	12.*	1 $\frac{1}{2}$ *	10.8*	*1 $\frac{1}{2}$
9	20.*	* $\frac{3}{4}$	18.75*	1*	17.7*	*1 $\frac{1}{2}$	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.

**"Champion" Navy Bilge Pump**

BRASS CYLINDER—CAST BRONZE PARTS  
WITH WEIGHTED LEATHER VALVE

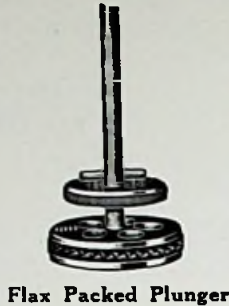


Fig. 1016

CAPACITY—13 STROKES—5 GALLONS

Each	Extreme Length Inches	Diameter Cylinder Inches	Inlet Pipe Thread Inches	Outlet Pipe Thread Inches	Diameter Plunger Rod Inches
\$17.00	24	2 3/4	1 1/4	1 1/2	1/2

Fig. 147—Weighted leather valve only, each \$1.00



Flax Packed Plunger



Fig. 147  
Weighted Leather Valve

**"Super" Navy Bilge Pump**

FOR HOSE OR PIPE  
WITH WEIGHTED LEATHER VALVE

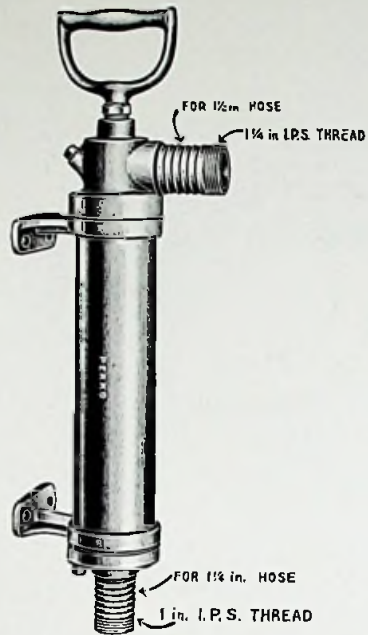


Fig. 701

This is our very popular "Champion" Pump improved by cast bronze integral fittings at inlet and outlet ends for connecting hose or pipe.

Each	Extreme Length Inches	Inlet Sizes		Outlet Sizes	
		Pipe Inches	Hose Inches	Pipe Inches	Hose Inches
\$19.50	27	1	1 1/4	1 1/4	1 1/2

**"Improved" Navy Bilge Pump**

BRASS CYLINDER—CAST BRONZE PARTS  
WITH ALL BRONZE POPPET VALVE

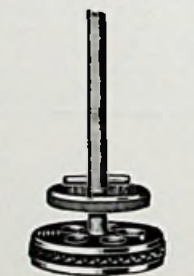


Fig. 497

CAPACITY—13 STROKES—5 GALLONS

Each	Extreme Length Inches	Diameter Cylinder Inches	Inlet Pipe Thread Inches	Outlet Pipe Thread Inches	Diameter Plunger Rod Inches
\$17.50	24	2 3/4	1 1/4	1 1/2	1/2

Fig. 158—Poppet type valve only, each \$5.00



Improved Plunger



Fig. 158  
All Bronze Poppet Type Valve

**"Midget" Navy Bilge Pumps**

FOR HOSE OR PIPE  
WITH WEIGHTED LEATHER VALVE

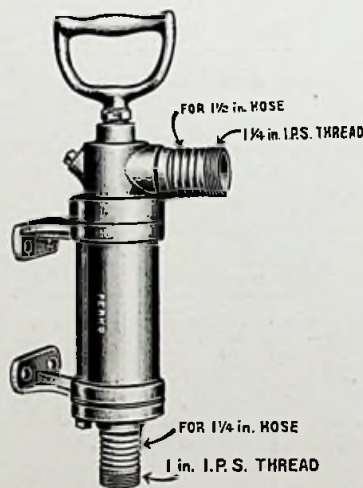


Fig. 702

Our Fig. 701 pump reduced in length for boats requiring a large capacity pump to be installed where space is limited.

Each	Extreme Length Inches	Diam. Cylinder Inches	Inlet Sizes		Outlet Sizes	
			Pipe Inches	Hose Inches	Pipe Inches	Hose Inches
\$18.00	18 1/4	2 3/4	1	1 1/4	1 1/4	1 1/2

Fig. 108—Plunger Assembly Only, Each \$6.75



Fig. 108





**Brass Bilge Pumps**  
DOUBLE ACTION

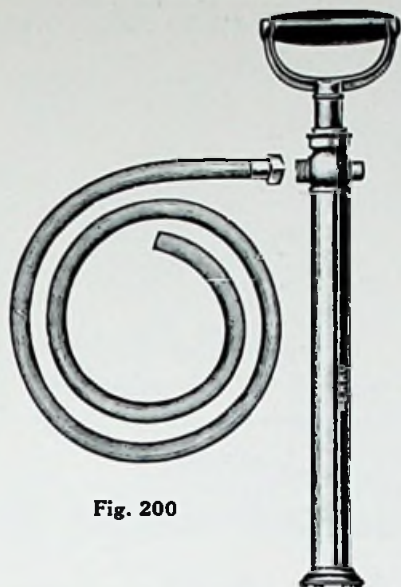


Fig. 200

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.

Nos.	With Hose Each	Height Inches	Diam. Inches	Capacity Per Min. Gallons	Weight Pounds
1	\$7.75	17 3/8	1 1/8	6	2 1/4
2	9.00	20	1 1/2	12	3 1/4
4	11.50	29	1 1/2	16 1/2	4

Without hose, deduct \$. 50 each.

**Brass Bilge Pumps**  
WITH SUCTION HOSE AND STRAINER

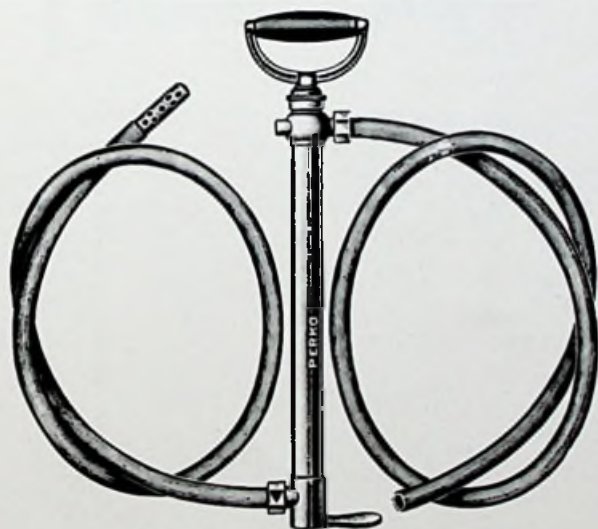


Fig. 202

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

Nos.	With Each Hose	Height Inches	Diam. Inches	Capacity Per Min. Gallons	Weight Pounds
5	\$10.25	18 3/8	1 1/8	6	3
6	12.00	21	1 1/2	12	4
8	16.00	30	1 1/2	16 1/2	5

Without hose, deduct \$1.00 each.

**Brass Bilge Pump**  
SINGLE ACTION—WITH 5 FT. RUBBER HOSE

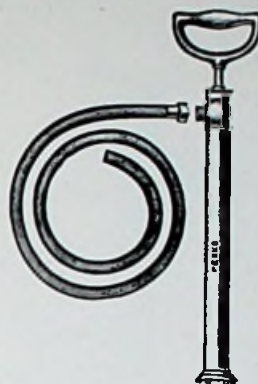


Fig. 723

CAPACITY—15 STROKES 1 GALLON

No.	With Hose Each	Without Hose Each	Diameter Inches	Extreme Length Inches	Weight Pounds
0	\$6.75	\$6.25	1 1/8	17 3/8	2

**Electric Bilge Pumps**

AUTOMATIC AND NON-AUTOMATIC  
BRONZE



Non-Automatic  
Fig. 801



Automatic  
Fig. 802

Large capacity, steady flow, low amperage consumption, enclosed motor, outlet for both 1/2 inch pipe and 1 inch hose, brass strainer at intake.

The automatic pump has a large copper float 4 1/4 inch diameter, 2 1/2 inches high, adjustable for operating the switch as desired.

Volts	No. 1		No. 2		Amperes	
	801 Each	802 Each	801 Each	802 Each	No. 1	No. 2
6	\$20.00	\$28.00	\$21.00	\$29.00	6.0	7.5
12	21.00	29.00	22.00	30.00	3.2	4.5
32	24.00	32.00	25.00	33.00	1.0	1.8
110 D.C.	29.00	37.00	30.00	38.00	.30	.32

Copper Floats only for Fig. 802, each \$4.50

No.	Height Overall Inches	Weight Each In Pounds	
		S01	S02
1	9	3	5 1/2
2	10	4 1/2	7

Pump No. 2 has larger and heavier duty motor than No. 1 and is recommended where frequent pumping of long duration is necessary.



**Galvanized Steel Bilge Pumps**  
WITH LEATHER PLUNGER AND VALVE  
WOOD ROD AND T HANDLE  
FUNNEL TOP

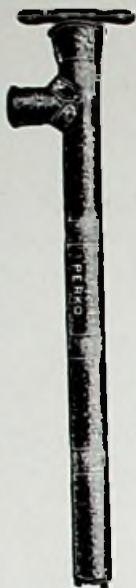


Fig. 156

Diameter, inches	2	3	4
Price per foot	\$1.25	\$1.45	\$1.75

Pumps shorter than 5 feet long charged as 5 feet.  
Length measured overall.  
Crating Charge — \$2.50 net per crate regardless of quantity of pumps it contains.

**Galvanized Steel Bilge Pumps**  
WITH LEATHER PLUNGER AND VALVE  
WOOD ROD AND STRAIGHT HANDLE  
STRAIGHT TOP



Fig. 344

Diameter, inches	2	3	4
Price per foot	\$1.15	\$1.35	\$1.65

Pumps shorter than 5 feet long charged as 5 feet.  
Length measured overall.  
Crating Charge — \$2.50 net per crate regardless of quantity of pumps it contains.

**SPARE PARTS**

Plungers, see Fig. 239. Valves, see Fig. 237.

**Brass Bilge Pump**  
WITH BULKHEAD BRACKETS  
THREADED FOR 1/4 INCH PIPE



Fig. 345

No.	Diam. Barrel Inches	Length Overall Inches	Weight Pounds
2	1 1/2	21	3
4	1 1/2	31	4
No.	Without Tail Pieces Each	With Tail Pieces Each	
2	\$12.00	\$13.50	
4	14.00	15.50	

**Crank Case Pump**  
DOUBLE ACTION—ALL BRASS  
Capacity per minute—2 Gallons

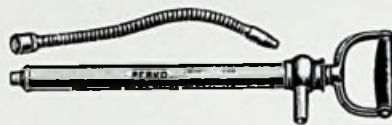


Fig. 146

For draining the crank case through filler opening, with outlet spout for attaching rubber hose. Intake is brass flexible metal hose.

Complete Each	Spare Intake Hose Each	Length Overall Inches	Length Intake Hose Inches	Diam. Pump Inches	Weight Pounds
\$8.25	\$2.75	17 1/2	12 1/2	1 1/8	2 1/2

**Crank Case Pump**

DOUBLE ACTION—ALL BRASS



Fig. 1029

This pump is equipped with a cast bronze intake tube for rubber hose. 12 inches of 3/8 inch hose is included.

This type is especially useful for Gray motors permitting the oil to be drawn off through the oil dagger tube.

Complete Each	Spare Intake Tube Each	Length Overall Inches	Diam. Pump Inches	Weight Pounds
\$7.75	\$1.40	20	1 1/8	2 1/2

**Crank Case Pump**

SINGLE ACTION—ALL BRASS  
WITH FLEXIBLE METAL HOSE INTAKE



Fig. 388

Complete Each	Spare Intake Hose Each	Diam. Barrel Inches	Length Overall Inches	Length Intake Hose Inches	Weight Pounds
\$6.00	\$2.00	1 1/2	12	15 1/2	2










### Parts for Brass Bilge Pumps

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 for numbers 0-1 and 5 bilge pumps. / Page  
No. 2 for numbers 2, 4, 6 and 8 bilge pumps.} 57

		Outsides Diam. Inches	Each
	Flange Washer {No. 1 Fig. 203 {No. 2	1 1/8 1 1/8	\$ .35 .40
	Cup Washer {No. 1 Fig. 204 {No. 2	1 1 3/8	\$ .35 .40
	Split Washer {No. 1 Fig. 205 {No. 2	1 1/8 1 1/8	\$ .10 .15
	Hollow Ball {No. 1 Fig. 206 {No. 2	1/2 3/8	\$ .50 .65
	Valve Fitting For Plunger {No. 1 Fig. 456 {No. 2		\$ .90 1.00
	Packing Nut {No. 1 Fig. 457 {No. 2		\$1.00 1.25

### Bottom Valves

FOR BRASS BILGE PUMPS—CAST BRONZE



Fig. 549  
For Fig. 200  
Single Hose Pump



Fig. 550  
For Fig. 202  
Double Hose Pump

Furnished complete with hollow brass ball and strainer.

For Pump Size No.	Each
0	\$1.85
1	2.00
2	2.80
4	2.80

For Pump Size No.	Each
5	\$2.80
6	3.50
8	3.50

Fig. 549 for pump size No. 0 fits special bilge pump, Fig. 723.

### Rubber Hose and Strainer

FOR FIGS. 200, 202 and 723 BRASS BILGE PUMPS

Heavy moulded rubber hose. durable and lasting. 3/8 inch inside diameter.



Fig. 208 Fig. 209

Standard 5 ft. lengths Each \$1.30  
Cast Bronze Strainer .65

Other lengths of hose can be furnished. Price on application.

### Pump Valves



Fig. 237

Galvanized iron with oak leather clapper, galvanized iron weights on both sides of leather riveted together and screwed to casting.

Diameter, in.	1 1/2	2	2 1/2	3	4
Wgt., per dz. lbs.	3/4	4	6	7	11
Per doz.	\$4.85	\$4.85	\$6.00	\$6.50	\$8.50

### Leather Plungers

OAK LEATHER

Riveted together, strong and durable.



Fig. 239

For Diam. Pump Inches	Per Dozen	Weight Per Dozen Lbs.
2	\$4.70	2
2 1/2	5.25	2 1/2
3	5.50	3
4	7.00	4

### Bronze Navy Pump Strainers

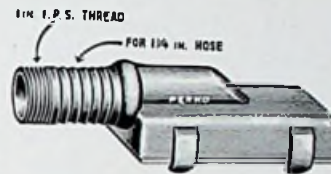


Fig. 704

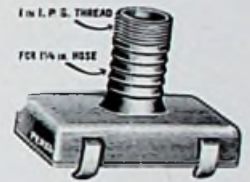


Fig. 705



Fig. 721



Fig. 722

Fig.	Each	Pipe Thread Inches	For Hose Inches	Length Inches	Width Inches	Weight Pounds
704	\$2.40	1	1 1/4	7	2 3/4	2
705	2.40	1	1 1/4	4 3/4	2 3/4	1 1/2
721	2.40	1 1/4		5	2 3/4	1 1/2
722	2.40	1 1/4		4 3/4	2 3/4	1 3/8

### New "Ezy-Flo" Galley Pump

ALL BRASS—CHROMIUM PLATED

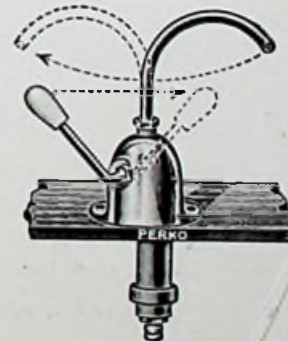


Fig. 177

Finger tip control, easy operation, self priming.

Handle operates with short rocking strokes so effortless a child can work it.

Spout swivels to any direction desired.

Inlet fits 3/8" rubber hose or 3/8" metal tubing.

Capacity—20 strokes per quart.

Each	Extreme height Above Drain Board Inches	Dimensions Mounting Base Inches	Weight Pounds
\$14.00	8	4 x 1 7/8	2 1/4

## GALLEY OR LAVATORY PUMPS

**CAST BRONZE, POLISHED OR CHROMIUM PLATED  
BRASS BALL CHECKS IN PLUNGER AND INLET VALVE**

WITH ADJUSTABLE MAHOGANY HANDLE  
HIGH OR LOW SPOUT  
STRAIGHT OR FLARED BASE

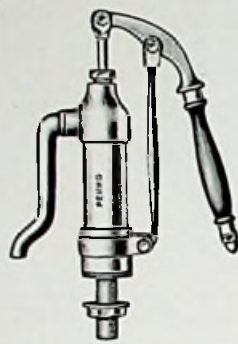
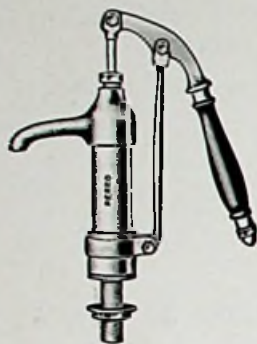


Fig. 473 Straight Base  
Fig. 478 Flared Base

Fig. 474 Flared Base  
Fig. 479 Straight Base

Fig.	Diam. Barrel Inches	Length Barrel Inches	Length Neck Inches	Threaded For Pipe Inches	Spread Handle Up Inches	Weight Pounds	Polished Bronze Each	Chromium Plated Each	Mahogany Handle Only Each
473-478	1 5/8	6	2 1/2	1/2	14	3 1/2	\$18.25	\$21.00	\$ .60
474-479							21.00	24.00	.60

WITH BRONZE T HANDLE  
LOW OR GOOSENECK SPOUT  
FLARED FLANGE

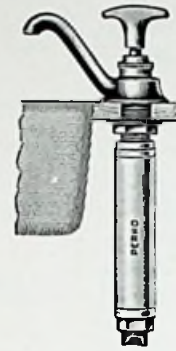


Fig. 144

Fig. 1040

Length of stroke is 5 1/4 inches.  
Inlet is threaded for 3/8 inch pipe.

Capacity per minute, Low Speed Stroke—3 Gallons.

Fig.	Diam. Barrel Inches	Length Overall Inches	Projection Spout Inches	Height Spout Inches	Weight Pounds	Polished Bronze Each	Chromium Plated Each
144	1 1/2	13 1/2	3	0	3		
1040	1 1/2	14 1/2	4 1/2	3	3 1/2		
						Exposed Parts Only	
Fig.						Polished Bronze Each	Chromium Plated Each
144						\$12.00	\$14.00
1040						13.00	15.00

WITH ADJUSTABLE ALL METAL HANDLE  
HIGH SPOUT—FLARED BASE

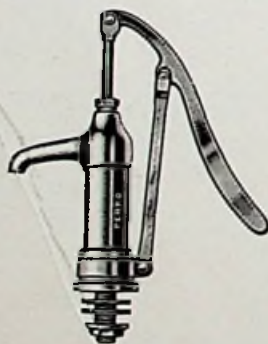


Fig. 467

Fig.	Diam. Barrel Inches	Length Barrel Inches	Length Neck Inches	Threaded For Pipe Inches	Spread Handle Up Inches	Weight Pounds	Polished Bronze Each	Chromium Plated Each	Bronze Handle Only Each	Chromium Plated Handle Only Each
467	1 3/8	6 1/2	2	1/2	13 1/2	4	\$16.00	\$19.00	\$2.00	\$3.00

ANGLE TYPE  
DOUBLE ACTION—SWIVEL SPOUT  
EFFORTLESS OPERATION

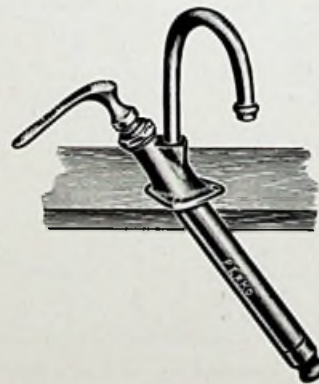


Fig. 677

Angle toward user when installed permits easy effortless operation.

Spout swivels to various positions.

Bottom valve is an improved type to hold prime.

Capacity, 10 strokes per quart.

Fig.	Polished Bronze Each	Chromium Plated Each	Inlet Pipe Size Inches	Spout Projection Inches	Height Flange to Spout Inches	Weight Pounds
677	\$11.25	\$14.00	3/8	4	4 1/4	2 1/4



## Corner Lavatory

WHITE VITREOUS CHINA

With chromium plated low spout pump, Fig. 479



Fig. 830

With integral back and round basin with overflow, fitted with chromium plated waste plug, chainstay, chain and stopper. Size of outlet  $1\frac{1}{4}$  inches outside diameter. Inlet to pump  $\frac{1}{2}$  inch inside diameter.

No.	Without Pump Each	Complete With Pump Each	Complete With Faucet Each	Size of Sides Inches	Diam. of Basin Inches	Height Back Inches
1	\$23.00	\$42.50	\$27.00	12x12	10	2½
2	29.75	49.25	33.75	14x14	11	2½

## Flat Back Lavatories

WHITE VITREOUS CHINA

With Compression Faucet

With Chromium Plated Pump Fig. 473



Fig. 831



Fig. 832

With integral back and round basin. Complete with chromium plated waste plug, chainstay, chain, and stopper. Size of outlet  $1\frac{1}{4}$  inch outside diameter.

Fig.	Without Pump or Faucet Each	Complete with Faucet Each	Complete with Pump Each	Size Inches	Diam. Basin Inches	Height Back Inches
831	\$20.00	\$24.00	\$37.00	12x12	10	2½
832	23.00	27.00	40.00	14x14	11	2½

For drainage, the lavatory bowl is tilted back, and the water runs down the drain.

Automatically locks in closed or open position.

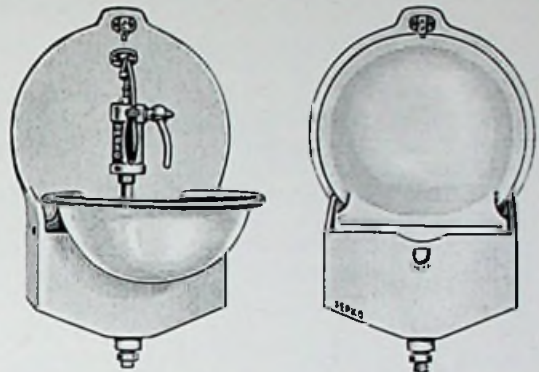
Drain tapped for  $\frac{3}{8}$  inch pipe, tailpiece for  $\frac{3}{4}$  inch hose.

Each	Diam. Bowl Inches	Width Mounting Plate Inches	Height Closed Inches	Extension Open Inches
\$10.00	11	8¾	15	13¾

ALL ABOVE FURNISHED WITHOUT PUMP OR FAUCET UNLESS OTHERWISE SPECIFIED.

## Folding Lavatories

VITREOUS ENAMELED ENTIRELY  
CHROMIUM PLATED PUMP AND FITTINGS



Open

Closed

Fig. 732

Basin is held in closed position by a spring catch. Inlet and outlet fittings are threaded for  $\frac{3}{4}$  inch pipe.

With Pump Each	Height Inches	Width Inches	Projection When Open Inches	Diam. Basin Inches	Depth Basin Inches	Weight Pounds
\$58.00	20	13¾	14	10	4½	42

## Galley Sink

PRESSED STEEL—PORCELAIN ENAMELED WHITE



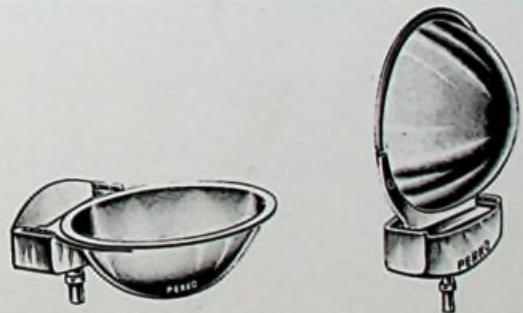
Fig. 402

With flat rim and chromium plated combination sink drain and stopper in one unit,  $1\frac{1}{2}$  inch tail piece.

No.	Each	Size Inside Inches	Size Outside Inches	Depth Inches	Wt. Lbs.
2	\$6.75	10½x16	12¾x18	4¾	4

## Folding Lavatories

WITH DRAIN—COMPACT  
BLUE PORCELAIN ENAMEL AND ALUMINUM



Open

Closed

Fig. 342





**"PERKO" MARINE CLOSETS**

FOR ABOVE OR BELOW WATERLINE  
 WHITE VITREOUS CHINA BOWLS—ALL BRONZE PUMPS AND FITTINGS, WHITE FINISH  
 BIRCH SEATS AND COVERS — WHITE FINISH

BOWL is of rim flushing type and of latest design to eliminate loose pipe connections where supply pipe is connected to it.

PUMP for supply and discharge is 2½ inch with felt packed piston. Length of stroke 3½ inches.

VALVES, waste valve contains leather clack washers. A combination supply and check valve.

WASTE ARM has ¾ inch pipe size clean out opening in both ends ample to allow cleaning out of foreign matter or quick draining when hauling out.

OUTLET is 1½ inch I. P. S. with tail piece for lead pipe or hose connection.

INLET is ¾ inch I. P. S. with tail piece for lead pipe or hose connection.

SEAT AND COVER in two styles, closed front as illustrated or open front.

DIMENSIONS OVERALL, side to side, 19 inches; front to back, 16 inches; height, 14½ inches, base 11 x 5 inches.

**The Boatman**

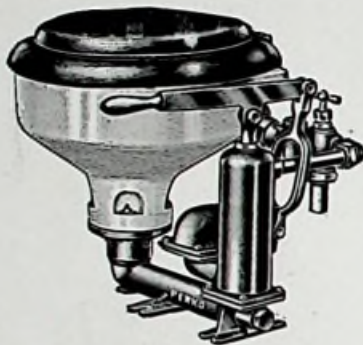


Fig. 828

With Horizontal Handle and Hand Valve

No.	Each
1 With White Seat and Cover, Closed Front	\$65.00
2 With White Seat and Cover, Open Front	66.00

**The Cruiserman**

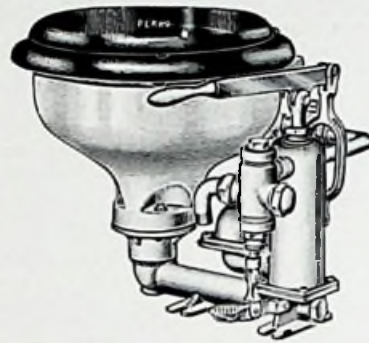


Fig. 1121

With Horizontal Handle and Foot Valve

No.	Each
1 With White Seat and Cover, Closed Front	\$67.50
2 With White Seat and Cover, Open Front	68.50

**The Seaman**

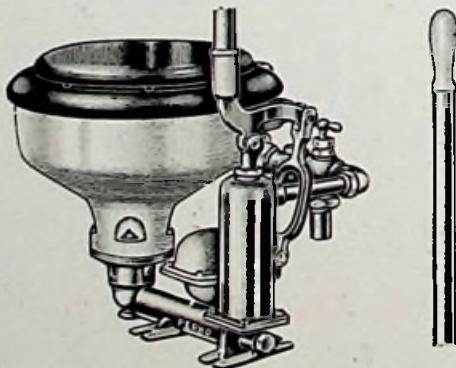


Fig. 1026

With Vertical Handle and Hand Valve

No.	Each
1 With White Seat and Cover, Closed Front	\$67.50
2 With White Seat and Cover, Open Front	68.50

**The Yachtsman**

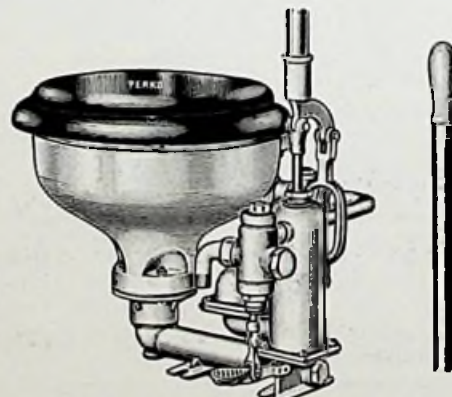


Fig. 829

With Vertical Handle and Foot Valve

No.	Each
1 With White Seat and Cover, Closed Front	\$70.00
2 With White Seat and Cover, Open Front	71.00

NOTE --All furnished with pump on right or left hand side. Right hand facing furnished unless otherwise specified.



## The Guardsman

3 1/2 INCH PUMP—CAST BRONZE—WHITE FINISH  
FELT PACKED PISTON  
VERTICAL HANDLE AND FOOT VALVE

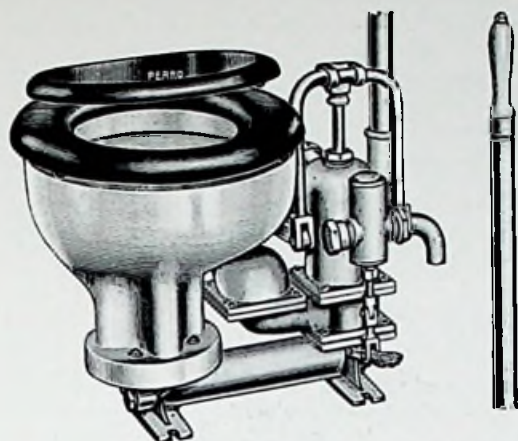


Fig. 1122

No.	Each
1 With White Seat and Cover, Closed Front	\$125.00
2 With White Seat and Cover, Open Front	126.00

REPAIR KITS for above consisting of all necessary gaskets, washers, packing, clack valves, etc. Ea. \$6.75.

DIMENSIONS OVERALL—Side to side, 20 1/4 inches; front to back, 16 1/2 inches; height, 17 inches; base, 16x7 inches.

CONNECTIONS—Outlet, 2 inches; inlet, 1 inch, I.P.S.

WASTE ARM—Has 3/4 inch pipe size clean out openings in both ends.

BORE—3 1/2 inches; stroke, 3 1/2 inches.

HANDLE is chromium plated heavy brass tubing.

Furnished with pump on right side facing unless otherwise specified.

## Seats and Covers

WHITE FINISH



Fig. 1127  
Closed Front



Fig. 1128  
Open Front

These are made of birch wood, finished in several coats of white enamel.

Fig.	White Each	Outside Diam. Inches	Outside Depth Inches	Centers of Bolts Inches
1127	\$10.00	14	14	5 3/8
1128	11.00	14	14	5 3/8

## White Vitreous China Bowls WITH FLUSHING RIM

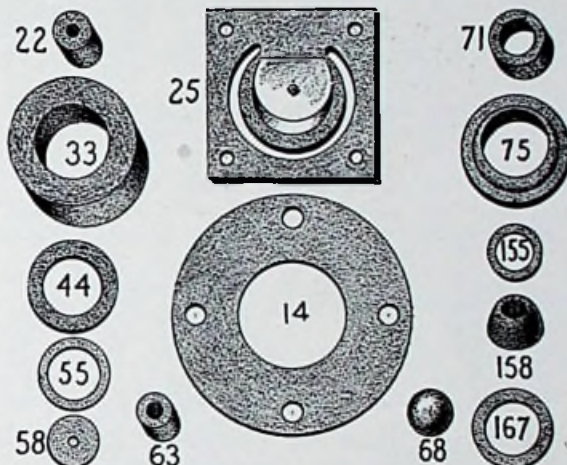


Fig. 1125

No. 1 for closets Figs. 828, 829, 1026, 1121.  
No. 2 for closet Fig. 1122.

No.	Each	Height Overall Inches	Diam. Base Inches	Outside Diam. Top Inches	Centers of Bolt Holes Inches
1	\$16.50	8	4 1/4	12 1/2	3 3/8
2	24.00	12	7	12 1/2	4 1/2

## Repair Parts for "Perko" Closets

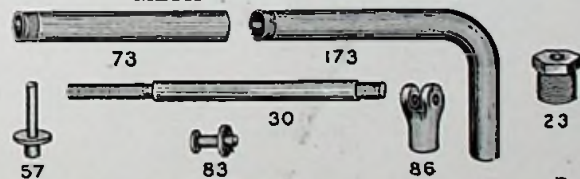


Repair kits for 828 and 1026 consisting of parts No. 14 to 75 inclusive..... Each \$5.00

Repair kits for 829 and 1121 consisting of all parts No. 14 to 167 inclusive..... Each \$5.75

Part No.	Part Name	Each
14	Rubber Gasket for Bowl Flange.....	\$.85
22	Graphite Packing for Piston Rod.....	.50
25	Leather Clack Valve, Weighted.....	1.00
33	Felt Packing for Piston.....	1.00
44	Rubber Washer for Rising Main Coupling.....	.25
55	Rubber Washer for Hand Valve Coupling.....	.25
58	Rubber Disc for Hand Check Valve.....	.25
63	Graphite Packing for Hand Valve Stem.....	.25
68	Rubber Ball for Return Check Valve.....	.25
71	Graphite Packing for Flush Elbow.....	.25
75	Rubber Gasket for Bowl Spud.....	.50
155	Rubber Washer for Foot Valve Coupling.....	.20
158	Rubber Washer for Foot Valve Seat.....	.50
167	Rubber Washer for Foot Valve Cap.....	.25

## METAL PARTS FOR CLOSETS



Part No.	Part Name	Each
23	Cylinder Packing Nut.....	\$.75
30	Pump Piston Rod.....	1.40
57	Intake Valve Stem.....	.75
73	Flush Pipe for Fig. 828 and 1026.....	1.10
83	Pin for Piston Rod Yoke.....	.50
86	Piston Rod Yoke.....	.80
173	Flush Pipe for Fig. 829 and 1121.....	1.20





**Bronze Sea Cocks**  
WITH DRAIN PLUGS—ROUND WAY



Fig. 834



Fig. 835

Size Inches	Fig. 834 Each	Fig. 835 Each	With Fig. 86 Strainer Add Each	Size Strainer Inches	Without Hull Connection Deduct Each
3/4	\$11.00	\$10.70	\$.65	3 1/2	\$1.20
1	14.25	13.90	.65	3 1/2	1.60
1 1/4	18.60	18.20	.80	4	2.20
1 1/2	21.90	21.45	1.30	5	2.65
2	34.00	33.15	1.60	6	4.25
2 1/2	110.00	105.00		8	5.00

**Tail Pieces**

CAST BRONZE—FOR SEACOCKS

For lead pipe or hose connections, furnished complete with leather washer.



Fig. 67 Straight  
Fig. 78, 90 Degree

I. P. S Size Inches	Fig. 67 Each	Fig. 78 Each
3/4	\$.85	\$1.05
1	1.05	1.35
1 1/4	1.45	1.80
1 1/2	1.60	2.10
2	2.60	3.60

**Thru-Hull Connections**

CAST BRONZE—WITH LOCKNUT WITH AND WITHOUT TAIL PIECE



Fig. 64



Fig. 322

Size Pipe Inches	Fig. 64 Each	Fig. 322 Each	Length Neck Inches	O.D. Tail Piece Inches	Diam. Flange Inches	Wt. Fig. 64 Lbs.	Wt. Fig. 322 Lbs.
1/4	\$1.70	\$1.10	1 3/4	3/8	1 1/4	1/3	3/8
3/8	1.75	1.15	2 3/8	1/2	1 3/8	1/2	1/4
1/2	1.90	1.25	2 3/8	1/2	1 5/8	3/4	1/3
3/4	2.40	1.55	2 3/8	3/4	2	1	1/2
1	3.15	2.10	2 3/8	1	2 1/4	1 1/4	3/4
1 1/4	4.35	2.90	3 1/2	1 1/4	2 3/8	1 3/4	1
1 1/2	5.15	3.55	3 3/4	1 1/2	3	2 1/4	1 1/4
2	8.00	5.40	4	2	3 1/2	3 1/2	2
2 1/2		8.30	4	4 1/2			2 3/4

**Water Outlet**  
CAST BRONZE

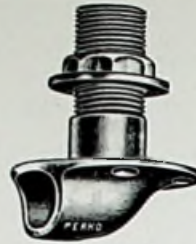


Fig. 332

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	Chromium Plated Each
1	\$3.15	\$4.00
2	4.00	5.00

**Speedboat Strainers**

CAST BRONZE

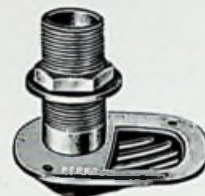


Fig. 65

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

Pipe Size Inches	Each	Length Pipe Inches	Size Strainer Inches	Weight Pounds
1/2	\$2.35	2 1/4	2 1/2 x 3 1/2	5/8
3/4	2.75	2 1/4	3 x 4	7/8
1	3.35	3	3 1/8 x 4 1/4	1 1/8
1 1/4	4.50	3 5/8	3 3/8 x 4 1/2	1 3/4
1 1/2	5.50	3 5/8	3 1/2 x 5	2

**Scoop Strainers**

CAST BRONZE



Fig. 66

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. No. 4 up to 2 inches.

No.	Each	Outside Dimensions Inches	Weight Each
1	\$.45	3 1/2 x 2 1/2	4 oz.
2	.70	5 x 3 1/4	7 oz.
3	1.30	6 1/4 x 4 1/4	1 lb.
4	2.60	8 1/4 x 5 1/4	2 lbs.

**Round Strainers**

PLAIN CAST BRONZE



Fig. 86

Outside Diam. Inches	Each	Inside Diam. Inches	Weight Each
2 1/2	\$.40	1 3/4	2 oz.
3	.45	2	4 oz.
3 1/2	.65	2 3/8	5 oz.
4	.80	3	6 oz.
5	1.30	3 3/4	12 oz.
6	1.60	4 1/2	1 lb.
8	3.25	6	2 lbs.
10	5.25	8 1/4	3 lbs.





### Kerosene Stove

PRESSURE TYPE — 2 BURNERS  
HEAVY STEEL — HOT GALVANIZED  
CHROMIUM PLATED BRASS FUEL TANK  
WITH RAIL AND ADJUSTABLE POT HOLDERS

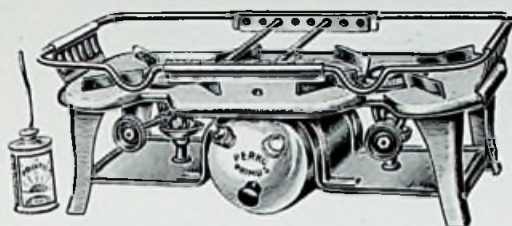


Fig. 1164

Primus Burners are world famous and need no introduction. They function efficiently, safely and are clean, smokeless and odorless.

Black bakelite control knobs regulate, clean and extinguish as easily as a standard gas range. Will boil a quart of water in three minutes.

Fuel tank holds enough to burn both burners steadily for about four hours.

Priming can is included.

Complete Each	Extreme Length Inches	Extreme Width Inches	Extreme Height Inches	Cap. Tank Qts.	Weight Lbs.
\$48.00	20½	10½	7½	2	12

Packed in individual wood case, three cases per crate.

Spare Parts, see Page 67.

### Alcohol Stove

PRESSURE TYPE — 2 BURNERS  
HEAVY STEEL — HOT GALVANIZED  
CHROMIUM PLATED BRASS FUEL TANK  
WITH RAIL AND ADJUSTABLE POT HOLDERS

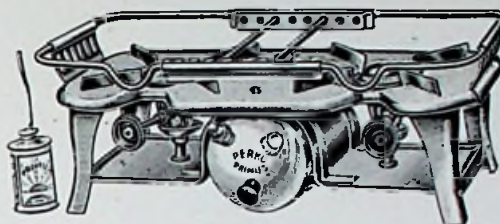


Fig. 1165

Equally as well known, efficient and dependable as the famous "Primus" Kerosene Burner.

Black bakelite control knobs regulate, clean and extinguish as easily as a standard gas range.

"Primus" Alcohol Burners use the same built in needle cleaning device and nipple as the kerosene burner.

Priming can is included.

Complete Each	Extreme Length Inches	Extreme Width Inches	Extreme Height Inches	Cap. Tank Qts.	Weight Lbs.
\$48.00	20½	10½	7½	2	12

Packed in individual wood case, three cases per crate.

Spare Parts, see Page 67.

### Alcohol Stove

1 BURNER — PRESSURE TYPE  
IVORY ENAMEL FINISH — BRASS TANK



Fig. 1169

A new safety type stove with concealed fuel tank, creates its own pressure, pumping is unnecessary.

Burns like a gas stove, with silent smokeless flame. Lights itself when ignition fuel is burning. Goes out when filling cap is opened. Fuel supply is cut off if flame is extinguished by draught or other causes.

The filler cap also controls the height and heat of the flame.

One filling will last about 2½ hours.

Will boil 1 quart water in about 8 minutes.

Supplied complete with priming can.

### Alcohol Stove

1 BURNER — GRAVITY TYPE  
IVORY ENAMEL FINISH — BRASS TANK



Fig. 311

A low priced stove, burning alcohol. It does not require pumping and has a silent smokeless flame regulated by shut off valve.

One filling will last about 1½ hours at full flame. Will boil 1 quart water in 7 minutes.

Complete Each	Extreme Height Inches	Extreme Length Inches	Capacity Tank Pints	Weight Pounds
\$6.50	7¾	12	½	1

#### Spare Parts for Stove No. 311

No.	Description
3058	Brass Tank with Cap
3059	Tank Cap Only
3060	Shut Off Valve
3062	Wick
3063	Burner Complete with Valve
3068	Cap for Wick Tube

Prices on Application

No.	Complete Each	Dimensions Inches	Height Inches	Capacity Tank Pints	Weight Pounds
324	\$10.50	10¾x6½	3¼	¾	2¼
325	12.50	13¾x8¾	4¼	1¼	3¼

#### Spare Parts for No. 324 325

No.	Description	No.	Description
3510	Burner Complete with Wick	3508	Valve Spindle
3501	Wick	3509	Cleaning Cap
3502	Filler Cap	3506	Burner Packing
3503	Regulating Rod	3505	Spring for Regulating Rod
3504	Spring for Regulating Rod	3504	Wick
3505	Burner Packing	3502	Filler Cap
3509	Cleaning Cap	3511	Regulating Rod
3508	Valve Spindle	3512	Spring for Regulating Rod

Spare Parts, — Prices on Application



**Kerosene or Alcohol Stoves**

PRESSURE TYPE — ONE BURNER  
POLISHED BRASS

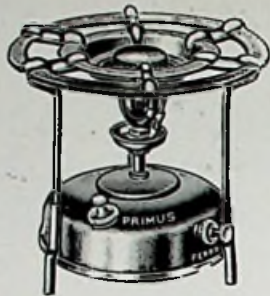


Fig. 1162

Excellent economical quick cooking stove for small boats, campers, weekenders, etc., or for cooking on deck or in cockpit of yachts, cruisers, etc.

One filling will last about 4 hours. Will boil 1 quart of water in 3 minutes.

No.	Extreme Height Inches	Extreme Diam. Inches	Capacity Tank Pints	Weight Pounds
	8	7 3/4	2	2 1/2

No.	Description	Each
1-SR.	With Roarer Burner, Non-Collapsible	\$11.00
5-SR.	With Silent Burner, Non-Collapsible	11.00
54	With Silent Burner, Collapsible	11.00
1166	With Fig. 3025 Alcohol Burner	16.50

Spare Parts for No.		1-SR.	5-SR.	54
	No.	No.	No.	No.
Burner Only	4128	4138	4138	4138
Nipple	4390	4390	4390	4390
Cleaning Needles	4605	4605	4605	4605
Grate, Brass	4881	4881	4880	4880
Lighter	4270	4273	4273	4273
Filler Cap	4374	4374	4032	4032
Outer Cap, Perforated		4205	4205	4205
Inner Cap		4676	4676	4676
Flame Rings	4169			
Burner Tubes	4215	4217	4217	4217
Priming Pan	4241	4241	4241	4241

Spare Parts, Prices on Application

**Kerosene or Alcohol Heaters**

POLISHED BRASS

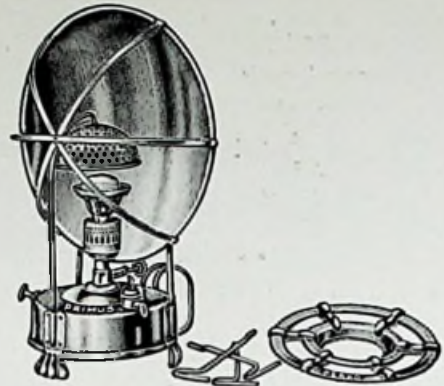


Fig. 1167

Can be used alternately as a cooker or as a heat radiator.

Consists of a Primus 1 burner cooker with heating cone and holder, reflector and flame guard.

By removing the radiator parts quickly without tools and replacing same with grate and holders a fine 1 burner cooking stove is ready for use.

Above supplied without control knob.

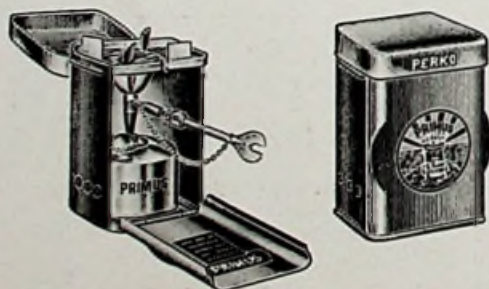
No.	Description	Each
1167	With Fig. 4138 Kerosene Burner	\$18.75
1168	With Fig. 3025 Alcohol Burner	24.00

Spare Parts for No.		1167	1168
	No.	No.	No.
Burner Only	4138	3025	3025
Nipple	4390	4419	4419
Grate	4881	4881	4881
Outer Cap, Perforated	4205	4205	4205
Inner Cap	4676	3055	3055
Filler Cap	4374	4374	4374
Heater Unit with Reflector	155-R	155-R	155-R
Burner Tubes	4217	4217	4217
Priming Pan	4241	4241	4241

Spare Parts, Prices on Application

**“Sport Kit” Gasoline Stove**

ALL BRASS STOVE — SHEET STEEL BOX



Open for use

Fig. 71-L

Closed

Complete Each	Dimensions of Box Inches	Capacity of Tank Pints	Weight Pounds
\$7.00	5 5/8 x 3 3/4 x 3 3/4	1/3	1 1/4

One filling will last about 1 hour.

Will boil 1 pint of water in about 4 minutes.

A cooking apparatus very practical for picnicking, camping, motorists and small boat owners, can be stowed anywhere in a rowboat, canoe or outboard motor boat.

The stove is provided with shut-off valve for regulating flame and prevents leakage when stove is not in use.

Spare Parts for No. 71-L

No.	Description
4060	Burner Tube with Nipple, Wick and Valve
4070	Nipple
4608	Cleaning Needles

Spare Parts, Prices on Application



## Kerosene Burner

For Fig. 1164

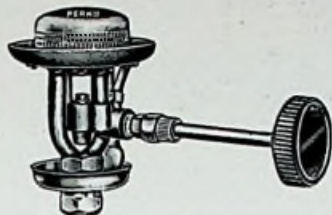


Fig. 4155

Supplied complete as illustrated, each .....\$6.00

## Alcohol Burner

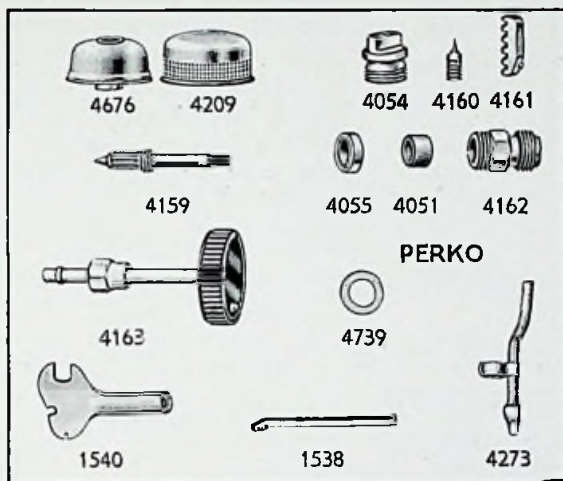
For. Figs. 1165, 1166 and 1168



Fig. 3025

Supplied complete as illustrated, each .....\$7.00

### PARTS FOR PRIMUS BURNERS



### ACCESSORIES FOR PRIMUS STOVES



Fig. 1641

Fig. 1745

Fig. 1605

Fig.	Description	Each
1605	Draught Shield for Burner .....	\$1.50
1641	Funnel .....	.75
1745	Priming Can for Alcohol.....	1.25

## Hot Air Cabin Heater

CAST IRON PLATE — CAST ALUMINUM BODY  
6-12-32 AND 110 VOLTS

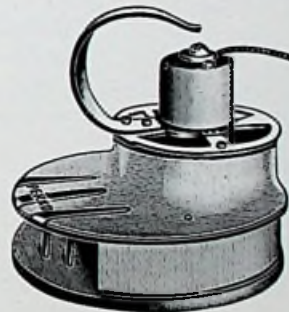


Fig. 595

Now you can use your galley stove to heat your boat. Works equally well on gas, alcohol, kerosene, coal or any other type of stove.

This Hot Air Heater takes the heat from the stove and distributes it to all corners of the cabin. This blast of hot air will heat the average cabin in a few minutes and maintain a comfortable temperature as long as required.

Just place the heater on the stove over the burner, connect electric fan wires to battery, light the stove and in a few minutes the cabin will be as comfortable as you want it.

Volts	Each	Amperes	Diam. Inches	Height Inches	Weight Pounds
6	\$19.00	1.5	8 1/2	7	9 1/2
12	20.50	.75	8 1/2	7 1/4	9 3/4
32	22.00	.28	8 1/2	7 3/4	10 1/4
110 D.C.	25.00	.08	8 1/2	8	11

The 110 volt heater furnished for D.C. current only. Specify Voltage When Ordering.

Part	For Burner Fig.		No.	No.	Each
	4155	3025			
Key for Inserting Cleaning Needle	1538	1538			\$ .20
Key for Nipple, Box, etc.	1540	1540			.40
Packing for Box	4051	4051			.25
Nipple	4054	4419			.35
Metal Packing for Box	4055	4055			.15
Valve Screw	4159	4159			.60
Cleaning Needle (set of 3)	4160	4420			.60
Cleaning Needle Holder	4161	4161			.50
Box Nut	4162	4162			.30
Spindle with Knob and Stop Nut	4163	3031			1.10
Outer Cap, Perforated	4209	4205			.65
Primus Lighter	4273	3036			.35
Inner Cap	4676	3055			.40
Burner Packing	4739	4739			.10
Burner Tubes	4356	4356			.60

### PARTS FOR PRIMUS STOVES

Part	For Stoves Fig.			Each
	1162	1164	1165	
Filler Cap with Vent	4032	4032	4032	\$ .60
Pump Plunger Complete	4893	4894	4894	.50
Pump Cap	4318	4319	4319	.25
Pump Knob	4321	4321	4321	.25
Pump Valve with Gasket	4373	4373	4373	.40
Leather Washer for Pump	4328	4459	4459	.15



**Round Portlights**

GALVANIZED CAST IRON OR CAST BRONZE  
NEW STYLE—IMPROVED  
GLASS AREA IS SAME DIAMETER AS OPENING



Fig. 317

Diam. Opening Inches	Galv. Each	Plain Bronze Each	Diam. Glass in Clear Inches	Outside Diam. Frame Inches	Thickness of Glass Inches	Diameter Clear Glass Inches	Plain Bronze Each	Polished Bronze Each	Thickness Glass Inches	Outside Diam. Frame Inches	Weight Pounds
4	\$ 5.85	\$ 6.50	4	7 <sup>5</sup> / <sub>8</sub>	1/4	3 <sup>3</sup> / <sub>8</sub>	\$4.70	\$6.05	3/8	5 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>
5	6.80	7.80	5	8 <sup>3</sup> / <sub>4</sub>	3/8	4 <sup>1</sup> / <sub>8</sub>	5.00	6.50	3/8	6 <sup>1</sup> / <sub>4</sub>	2
6	8.45	9.40	6	9 <sup>3</sup> / <sub>4</sub>	3/8	5	5.65	7.15	1/2	7 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>8</sub>
7	11.00	13.65	7	11	1/2	6	6.35	8.15	1/2	8	3 <sup>3</sup> / <sub>8</sub>
8	12.35	15.60	8	12 <sup>1</sup> / <sub>4</sub>	1/2	8	11.70	14.30	1/2	11	9 <sup>3</sup> / <sub>8</sub>
9	16.60	24.00	9	14 <sup>3</sup> / <sub>8</sub>	1/2						
10	20.15	28.60	10	14 <sup>7</sup> / <sub>8</sub>	1/2						
12		34.00	12	17 <sup>1</sup> / <sub>8</sub>	1/2						

All sizes are recessed for screens.

9 and 10 inch have Two Fastenings.

12 inch have Three Fastenings.

**Deck Lights**

CAST BRONZE—FOR WOOD DECKS



Fig. 838

**MORE-AIR PORTLIGHTS**

INSIDE PATTERN—FOR WOOD HULLS  
CAST BRONZE—PLAIN  
COMPLETE WITH OUTSIDE FINISHING RING  
GLASS AREA IS SAME DIAMETER AS OPENING  
ALL SIZES ARE RECESSED FOR SCREENS

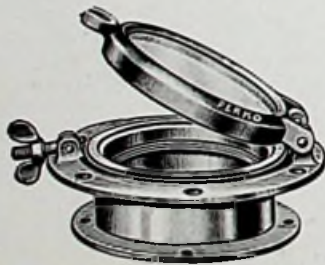
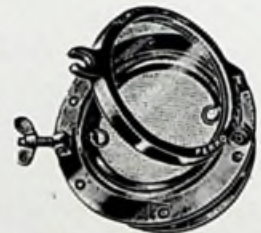


Fig. 157

Showing Screen in Place



Opening Inches	For Thickness of Wood			
	1 1/4 Inch Plain Bronze Each	3 Inch Plain Bronze Each	4 1/2 Inch Plain Bronze Each	6 Inch Plain Bronze Each
4	\$ 9.40	\$10.65	\$11.85	\$13.10
5	11.00	12.25	13.45	14.70
6	13.10	14.30	15.90	17.75
7	18.80	20.80	22.90	24.90
8	21.25	23.50	26.20	29.50
9	28.65	31.00	34.80	38.50
10	38.50	42.00	47.50	53.00
12	47.50	53.00	59.75	67.50

For 1 inch wood, use 1 1/2 inch price. For 2 or 2 1/2 inch wood use 3 inch price, etc.

Diameter frame up to 8 inch, add 3 inches. 9 to 12 inch, add 4 inches.

Without outside finishing ring, deduct from above prices the following:

Plain	4 Inch	5 Inch	6 Inch	7 Inch	8 Inch	9 Inch	10 Inch	12 Inch
	\$ .70	\$ .85	\$ .95	\$1.25	\$1.50	\$2.35	\$3.20	\$3.75



## Marine Windows

WITH SPIGOT

PLAIN BRONZE OR ALUMINUM  
WATERTIGHT—TWO FASTENINGS

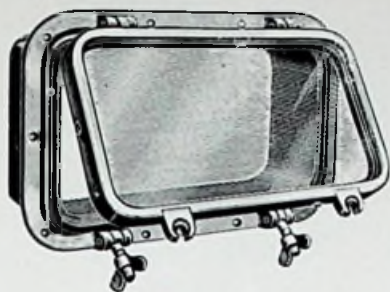


Fig. 796

Furnished complete with removable screen and outside finishing frame.

Designed to supply the maximum amount of air and light possible while keeping bulk and weight to a minimum.

The aluminum is of a salt water resistant alloy. Light weight is very often a desirable or necessary feature.

No.	Size of Opening Inches	Plain Bronze Each	Plain Aluminum Each	Without Finishing Frame Deduct Each	Size Glass in Clear Inches
1	5x12	\$22.80	\$22.80	\$1.65	5x12
2	7x16	28.50	28.50	2.25	7x16

No.	Dimensions Outside of Frame Inches	Length Spigot Inches	Thickness Glass Inches	Without Finishing Frame Deduct Each	
				Bronze Weight Pounds	Aluminum Weight Pounds
1	7 3/4 x 14 3/4	2	1/4	16	7
2	10 x 19 1/4	2	1/4	22	10

## Marine Windows

WITHOUT SPIGOT

PLAIN BRONZE OR ALUMINUM  
WATERTIGHT—TWO FASTENINGS

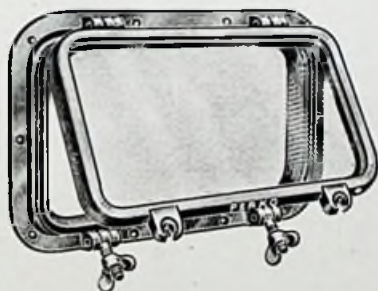


Fig. 803

Furnished complete with removable screen. Without finishing frame.

No.	Size of Opening Inches	Plain Bronze Each	Plain Aluminum Each	Bronze Weight Pounds	Aluminum Weight Pounds
3	5x12	\$20.00	\$20.00	11 1/2	5
4	7x16	25.00	25.00	16	7

All other dimensions are the same as Fig. 796 above.

## Air Scoops for Portlights

GALVANIZED OR POLISHED BRASS  
WITH OR WITHOUT SCREENS



Fig. 153

Opening of Portlight Inches	Galvanized		Polished Brass	
	Without Screen Each	With Screen Each	Without Screen Each	With Screen Each
3	\$3.25	\$5.25	\$5.25	\$7.25
4	4.00	5.60	6.00	8.00
5	4.50	6.25	6.50	8.50
6	5.25	6.90	7.25	9.25
7	6.00	7.50	8.00	10.00
8	6.50	8.15	8.50	10.50

Larger sizes made to order—Price on Application.  
Screens are soldered into scoops.

## Shallow Portlight Screens

SPUN BRASS FRAME—COPPER MESH  
FOR RECESSED PORTLIGHTS, FIG. 157, 317



Fig. 434

Size Portlight Inches	Each		Size Portlight Inches	Each	
	Galvanized	Polished Brass		Galvanized	Polished Brass
4	\$2.00		8	\$3.25	
5	2.25		9	3.50	
6	2.50		10	4.25	
7	3.00		12	5.00	

Exact size of screen. Add 1/8 inch to above sizes.  
Larger sizes made to order—Price on Application.

## Wing Nuts

BRASS—U. S. S. THREAD



Fig. 453

For Bolt Diameter Inches	Threads Per Inch	Plain Brass Each	For Bolt Diameter Inches	Threads Per Inch	Plain Brass Each
5/16	18	.18	5/8	11	.45
3/8	16	.18	3/4	10	.75
7/16	14	.30			

## Rubber for Portlights

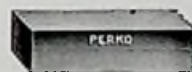


Fig. 461

Size	Per Foot
1/4 inch square	\$. 15
5/16 inch square	.17
3/8 inch square	.20

Supplied only in 12 1/2 foot lengths



**Seamed Cowl Ventilators**

GALVANIZED STEEL OR BRASS  
WITH BRONZE SCREW DECK PLATE



Fig. 151

Size Deck Plate Inches	Galv. Steel Each	Polished Brass Each	Diam. Mouth Inches	Height Overall Inches
2	\$12.35	\$17.00	4	5
2½	13.30	18.00	5	6
3	14.30	19.00	6	7
3½	16.00	20.00	7	10
4	17.50	22.00	8	11
4½	25.00	29.00	9	12
5	29.25	34.00	10	14
6	39.00	43.50	12	15
8	89.00	93.50	16	21

**Seamed Cowl Ventilator**

GALVANIZED STEEL OR BRASS  
WITH BRONZE SWIVEL DECK PLATE



Fig. 575

Deck Plate Size Inches	Galv. Each	Polished Brass Each	Diam. Mouth Inches	Height Overall Inches
3	\$19.00	\$23.00	6	7½
4	23.00	29.00	8	10
5	35.00	42.00	10	12½
6	48.50	59.00	12	15
8	95.50	112.00	16	20

**Ship and Yacht Cowl Ventilators**

SEAMLESS STEEL—HEAVY GAUGE  
HOT DIPPED GALVANIZED  
SWIVEL TYPE DECK FLANGE

**Seamless Cowl Ventilators**

HOT DIPPED GALVANIZED STEEL  
WITH CAST BRONZE DECK PLATES



Fig. 510

Screw Deck Plate



Fig. 513

Swivel Deck Plate

These are our latest improvement in cowl type ventilators, made of heavy gauge sheet steel and hot galvanized after fabrication. The body is smooth and free of seams, a sturdy and good looking ventilator.

Deck Plate Opening Inches	With Screw Deck Plate Each	With Swivel Deck Plate Each	Diam. Mouth Inches	Height Overall Inches	Gauge Before Galvanizing
3	\$19.50	\$23.00	6	8	24
4	25.50	29.50	8	11	24
5	32.00	36.00	10	13	24
6	48.50	54.00	12	15	24
8	98.00	103.00	16	20	20



Fig. 557

Made of black sheet steel and hot galvanized after fabrication. Joints are welded smooth before galvanizing and have no visible seams after galvanizing.

Sizes up to 16 inch inclusive of 18 gauge steel, larger sizes of 16 gauge steel.

Diam. Bottom Opening Inches	Cowl Only With Band Each	Cowl With Galvanized Deck Flange Each	Diam. Mouth Inches	Height Overall Inches
10	\$ 60.00	\$ 82.00	20	26
12	93.00	115.00	24	30
14	110.00	137.00	28	36
16	125.00	160.00	32	42
18	143.00	175.00	36	48
20	160.00	187.00	40	52
24	187.00	220.00	48	60

ALL ABOVE SIZES ARE STANDARD; SPECIAL SIZES AND EXTRA HEIGHT MADE TO ORDER.  
COVERS FOR SWIVEL DECK PLATES CAN BE SUPPLIED, PRICE ON APPLICATION.



## Spun Cowl Ventilators

SHEET BRASS OR COPPER  
BRONZE SCREW DECK PLATE



Fig. 152

Deck Plate Size Inches	Polished Brass Each	Polished Copper Each	Diameter Mouth Inches	Height Overall Inches
2	\$16.50	\$19.50	4	6
2½	17.00	20.00	5	7
3	18.00	21.50	6	8
3½	19.50	23.50	7	9
4	21.50	26.00	8	10½
5	33.00	39.00	10	14

With bronze swivel deck plate on application.

## Cast Bronze Cowl Ventilators

OVAL MOUTH  
SCREW TYPE



Fig. 509

Deck Plate Size Inches	Polished Bronze Each	Chromium Plated Each	Height Above Deck Inches	Size Mouth Inches
3	\$19.50	\$25.00	8⅛	6¼x4
4	24.50	32.00	8⅝	6½x4¾

## Cast Bronze Cowl Ventilators

WITH SCREW DECK PLATE—ROUND MOUTH



Fig. 421

Deck Plate Size Inches	Polished Bronze Each	Chromium Plated Each	Diam. Mouth Inches	Height Overall Inches	Weight Pounds
3	\$19.50	\$25.00	6	7¾	4½
4	24.50	32.00	8	9¾	8½

SWIVEL TYPE

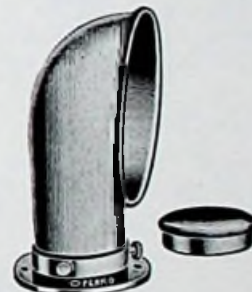


Fig. 515

With cover for use when ventilator is removed.

Deck Plate Size Inches	Polished Bronze Each	Chromium Plated Each	Height Above Deck Inches	Size Mouth Inches
3	\$21.00	\$27.50	9⅛	6¼x4
4	26.00	32.50	9⅝	6½x4¾

## Midget Ventilator

CAST BRONZE—OVAL MOUTH  
BRONZE SWIVEL DECK PLATE AND COVER



Fig. 634

No.	Polished Bronze Each	Chromium Plated Each	Diam. Bottom Opening	Extreme Height Inches	Size of Mouth Inches
1	\$11.75	\$15.75	2	6⅞	2¼x4½
2	12.00	16.00	2	8	2¼x4½

## Transom Ventilators

CAST BRONZE



Fig. 1069

Plain Bronze Each	Pol. Bronze Each	Chrom. Plated Each	Size Flange Inches	Depth Collar Inches	Weight Pounds
\$1.25	\$2.00	\$3.00	6¾x2¼	¾	¾

With bronze screen soldered in, add \$.65 each.



**Space Saver Ventilator**  
CAST BRONZE

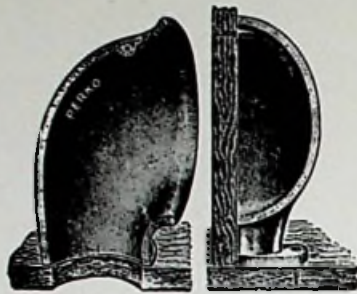


Fig. 782

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.

No.	Inside Diameter at Base Inches	Inside Measurements at Mouth Inches	Extreme Height Inches	Weight Per Pair Pounds
1	2½	2¾ x 5	6¾	3¾
2	3½	3⅞ x 7½	9	6

No.	Plain Bronze Per Pair	Polished Bronze Per Pair	Chrome Plated Per Pair
1	\$ 7.75	\$10.50	\$13.75
2	11.75	14.50	19.00

**Clam Shell Ventilators**  
CAST BRONZE



Fig. 323

No.	Width Opening Inches	Height Opening Inches	Size Base Inches	Weight Os.
4	2¾	1¾	3¾ x 3¼	11
5	3½	2	4 x 3¾	14

No.	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
4	\$1.35	\$2.00	\$2.75
5	1.55	2.35	3.00

**Streamline Ventilator**  
CAST BRONZE



Fig. 324

No.	Width Opening Inches	Height Opening Inches	Size Base Inches	Weight Ounces
2	1¾	1	2¾ x 3¾	6
3	2⅞	1⅝	3⅝ x 4¾	12

No.	Polished Bronze Each	Chromium Plated Each
2	\$2.00	\$2.75
3	2.25	3.00

**Cruiser Ventilator**  
STREAMLINE—CAST BRONZE



Fig. 908



Cut away view showing screen and water guard

An extremely neat ventilator for cruiser decks and cabin roofs.

An integral water guard inside mouth prevents spray or rain from entering ventilator. A bronze screen permanently installed to keep insects out of cabin.

Polished Bronze Each	Chromium Plated Each	Size Base Inches	Height Overall Inches	Weight Pounds
\$13.00	\$16.50	7x7	3½	4¾

**Streamline Ventilator**  
CAST BRONZE



Fig. 476

No.	Polished Bronze Each	Chromium Plated Each	Width Opening Inches	Height Opening Inches	Size Base Inches	Weight Pounds
6	\$4.25	\$5.25	3½	2¾	5x6	1
7	5.25	6.50	4¾	3¼	6x7	2
8	7.50	9.00	5¾	3½	7x8	2¾

**New Streamline Ventilator**  
CAST BRONZE



Fig. 310

A ventilator with graceful lines that will enhance the appearance of any boat.

Polished Bronze Each	Chromium Plated Each	Size Opening Inches	Size Base Inches	Weight Pounds
\$4.00	\$5.00	3x1	7½x4	1½



## Exhaust Blowers and Ventilators

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

Round Mouth

Oval Mouth

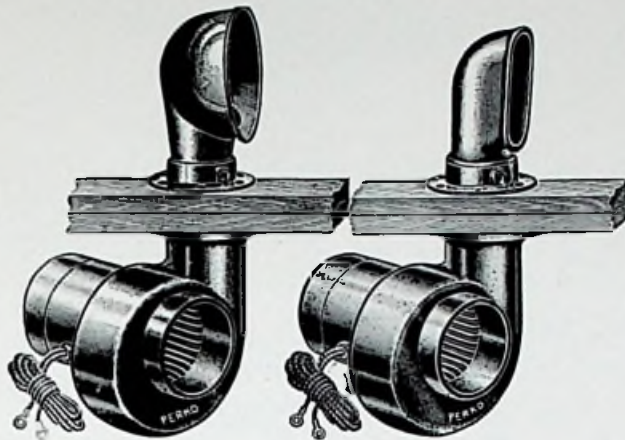


Fig. 780

Fig. 781

Fig. 780 has a spun brass or copper ventilator 2 1/4 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.

	6 Volt	
Fig. 780 Brass Complete Each	Fig. 780 Copper Complete Each	Fig. 781 Bronze Complete Each
\$35.00	\$38.75	\$31.00

For 12 volt Blower, add \$1.00 each.

For 32 volt Blower, add \$3.00 each.

For 110 volt Blower, add \$6.50 each.

## Blower and Ignition Switch

CAST BRONZE—SATIN FINISH  
FLUSH TYPE



Fig. 149

A way to automatically prevent starting the engine until the blower or exhaust fan has been turned on. Clear bilges and engine room of dangerous fumes before starting motor.

Polished Bronze Each	Chromium Plated Each	Diam. Face Plate Inches	Diam. Box Inches	Depth Inches
\$7.25	\$8.00	2 3/4	2 1/4	1 1/4

## Marine Exhaust Blowers

ELECTRIC 6—12—32—OR 110 VOLTS  
ENCLOSED MOTOR—CAST ALUMINUM HOUSING



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.

No.	Size Intake Inches	Size Outlet Inches	Dimensions Overall Inches	Capacity Cubic Feet Per Minute	Size Flange Inches
1	3	2 1/2	7 1/2 x 6 x 6	90	3 1/2 x 3 1/2
2	4	4	8 1/2 x 8 x 8	186	4 1/2 x 4 1/2

Volts	No. 1 Each	No. 2 Each	Amperes		Horsepower	
6	\$17.00	\$30.00	5.5	7.0	1/75	1/40
12	18.00	31.00	2.7	4.0	1/75	1/40
32	20.00	33.00	1.0	1.3	1/75	1/40
110	23.50	35.00	.30	.32	1/40	1/60

The 110 volt fan is for direct current only.

A caution plate is furnished with every Blower.

## Heavy Duty Exhaust Blowers

COAST GUARD MODEL

6—12—32—115 VOLTS

ENCLOSED MOTOR—CAST ALUMINUM HOUSING

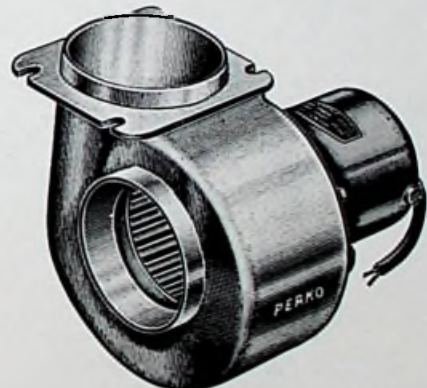


Fig. 740

With fully enclosed Spark Proof Heavy Duty Motor,

1/27 H.P. at 2000 R.P.M.

CAPACITY—180 CUBIC FEET PER MINUTE

No.	Inlet Inches	Outlet Inches	Mounting Flange Inches	Extreme Width Inches	Height Inches	Weight Pounds
3	4	4	5 1/4 x 5 1/4	9 1/4	7 3/8	10 1/2

Volts	Each	Amps.	Watts
6	\$46.00	7.0	42
12	46.50	3.5	42
32	47.00	1.35	44
115 DC	52.00	.36	41



### Turbine Ventilator

FOR MARINE USE  
IMPROVED BEARING RUNNING IN OIL  
GALVANIZED IRON OR 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	Height Overall Inches	Diam. Overall Inches
4	\$11.00	\$17.00	14½	11
5	11.50	17.50	16½	13
6	12.00	18.00	17	15
7	12.50	18.50	17¼	16½
8	13.00	19.50	18	16½
10	14.00	24.00	19½	19
12	17.50	30.00	20	22

### Liverpool Smoke Heads

SHEET STEEL OR BRASS—RIVETED



Fig. 347

Size Inches	Galv. Iron Each	Brass Each	Overall Dimensions Inches
3	\$ 8.50	\$13.00	11½ x 4
3½	8.75	13.75	12 x 4½
4	9.00	14.50	13 x 5½
4½	9.75	15.50	14 x 6
5	10.75	17.00	15 x 7
5½	12.00	19.00	16 x 7½
6	13.50	21.00	17 x 8

Larger sizes made to order, price on application.

If required for mounting on water deck iron, specify ½ inch larger size.

### Water Deck Irons

GALVANIZED CAST IRON



Fig. 430

Size of Stove Pipe Inches	Each	Outside Neck Diam. of Inches	Diam. Flange Inches	Weight Pounds
2½	\$2.75	2¾	6½	1¾
3	2.85	3¾	7½	4
3½	3.95	3¾	8½	5
4	4.25	4¾	9¼	6¼
4½	4.50	4¾	10	8
5	4.85	5¾	10½	9
5½	5.25	5¾	11	9¾
6	6.00	6½	11¼	11¼
7	7.25	7¾	12¾	13¼
8	10.50	8¾	13¾	19

### Ice Box Ventilators

CAST BRONZE—POLISHED

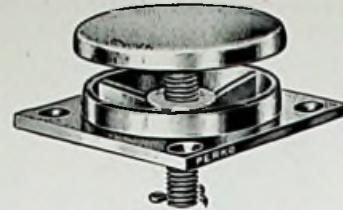


Fig. 783

No.	Polished Bronze Each	Chromium Plated Each	Diam. of Opening Inches	Size Plate Inches
1	\$4.25	\$6.25	1⅝	2½ x 2½
2	4.50	6.50	2½	3¼ x 3¼
3	5.75	7.75	3	4⅛ x 4⅛
4	7.00	9.25	3⅝	4⅞ x 4⅞

### Ventilator Deck Plates

CAST BRONZE—POLISHED—SCREW TYPE



Fig. 527

Complete with key and extra ring for cowl.

Diameter Opening Inches	Polished Each	Chromium Plated Each	Diameter Plate Inches	Weight Each
2	\$ 5.00	\$ 7.00	3⅝	12 oz.
2½	5.50	7.50	4½	1 lb.
3	6.50	8.50	4⅞	1¼ lbs.
3½	8.00	10.00	5½	1¾ lbs.
4	9.50	11.00	5¾	2¼ lbs.
4½	11.00	13.00	6⅜	3¼ lbs.
5	14.00	16.50	7¼	3¾ lbs.
6	17.50	20.50	8¼	4½ lbs.
8	39.00	46.00	10¼	7½ lbs.

### Swivel Deck Plates

CAST BRONZE—FOR COWL VENTILATORS

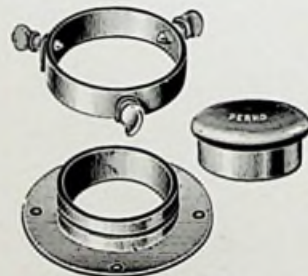


Fig. 419

Permits cowl to be turned to any direction.

For Size Ventilator Inches	Open- ing in Base Inches	Each	For Size Ventilator Inches	Open- ing in Base Inches	Each
3	2¼	\$ 7.75	8	7	\$23.00
4	3½	11.75	9	8¼	26.75
5	4½	14.50	10	9½	38.00
6	5	17.25	12	11¼	46.00
7	6	19.00			

Price does not include cap, if cap is desired add 25% to above prices.



## Regular Deck Plates

CAST BRONZE—WITH KEY



Fig. 526

Diam. Opening Inches	Machine Finish Complete Each	Polished Bronze Complete Each	Polished Chromium Plated Complete Each	Polished Bronze Covers Only Each	Keys Only Each	Outside Diam. Plate Inches
1	\$1.40	\$1.65	\$2.65	\$ .95	\$ .25	2 1/2
1 1/2	1.80	2.00	3.10	1.10	.25	3 3/8
2	2.75	3.00	4.00	1.60	.35	3 3/8
2 1/2	3.10	3.50	4.50	1.85	.40	4 1/2
3	3.85	4.35	5.50	2.20	.40	4 7/8
3 1/2	5.00	5.50	6.75	2.80	.50	5 1/2
4	5.90	6.75	8.20	3.50	.60	5 3/4
4 1/2	7.50	8.35	10.00	4.25	.65	6 3/8
5	8.95	10.00	12.00	5.00	.70	7 1/8
6	10.45	11.85	14.25	6.00	1.25	8 1/4
8	28.00	31.00	37.00	15.50	2.00	10 1/4

## Pipe Deck Plates

CAST BRONZE—WITH KEY—I. P. S. THREAD



Fig. 528

Can be furnished with words "water," "gas," "oil," "fuel," cast in cover, on all sizes 1 inch to 2 1/2 inch inclusive.

Pipe Size Inches	Machine Finish Complete Each	Polished Bronze Complete Each	Polished Chromium Plated Complete Each	Polished Bronze Covers Only Each	Keys Only Each	Outside Diam. Plate Inches
3/4	\$1.75	\$2.00	\$2.65	\$1.00	\$ .25	2 3/8
1	1.95	2.15	2.85	1.10	.25	2 7/8
1 1/4	2.30	2.65	3.45	1.25	.35	3 1/8
1 1/2	2.65	3.00	3.95	1.45	.35	3 3/4
2	3.50	4.00	4.90	2.00	.40	4 1/4
2 1/2	4.55	5.15	6.60	2.65	.40	4 5/8
3	5.95	6.75	8.20	3.30	.50	5 3/8

Larger sizes—price on application.

## 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.

Each	Length Overall Inches	Weight Pounds
\$1.80	8 1/2	1

## Automatic Boat Drainer

BRASS TUBING—CAST BRONZE FITTINGS  
BALL TYPE—STREAMLINE

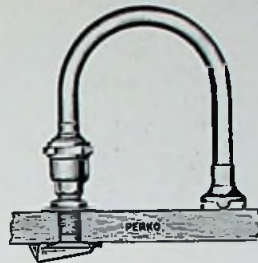


Fig. 397

Requires no attention after it is installed. Water cannot back up into the boat as the top of the tubing is above the water line.

A sponge rubber ball is forced into a machined seat automatically closes the opening when the boat is in reverse or not in motion.

Heavy bronze strainer in inlet end.  
Starts draining at 7 miles per hour.

No.	Each	Height Inside Hull Inches	Diam. Tubing Inches	For Thickness Hull Inches	Weight Pounds
1	\$11.50	8	3/4	up to 1 1/2	2
2	15.50	15 1/2	1 1/8	up to 2 1/4	4

## Garboard Drain Plug

CAST BRONZE—PLAIN



Fig. 714

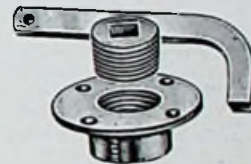


Fig. 124

A few of these installed in garboard allows quick drainage of boat when hauled out, by removing heavy plug. Threads are tapered pipe sizes and plugs are watertight.

Fig.	Plain Bronze Each	Pipe Size Inches	Diam. Flange Inches	Depth Inches	Weight Ounces
714	\$1.50	1/2	2	5/8	3
124	2.90	1	3 1/8	1	10

Fig. 124 is furnished complete with wrench.

## Automatic Boat Drain

CAST BRONZE—PLAIN



Fig. 213

For use in life boats. Made of heavy cast bronze, with sponge rubber ball valve. Cast bronze cover with chain attached, threaded 1 1/4 inches, No. 14 thread.

Complete Each	Caps Only With Chain Each	Balls Only Per Dozen	Diam. Opening Inches	Diam. Flange Inches
\$4.00	\$1.25	\$3.00	1 1/4	3 3/8

## Maxim Silencers WET TYPE—MODEL M3 CAST IRON



Fig. 334

For Exhaust Pipe Inches	*Fig. 334 Each	**Fig. 334-A Each	***Fig. 334-B Each	Diameter Inches	Length Overall Inches
1½	\$18.00	\$16.50	\$14.00	4¾	9¾
2	21.00	19.00	16.50	6¼	11
2½	27.50	24.50	21.00	7¼	12¾
3	32.00	28.50	25.00	9⅝	13½
3½	43.00	39.50	36.00	11	14¾
4	50.00	47.00	43.00	12¾	15¾
5	141.00			14	23
6	164.00			14 ⅞	27½

- \*Fig. 334 has both ends flanged.
- \*\*Fig. 334-A has one end flanged, other end tapped.
- \*\*\*Fig. 334-B has both ends tapped.

Use same size Silencer as diameter of Exhaust Pipe.

Used with equal success on Diesel as well as gasoline engines.

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.

## Maxim Silencers

CAST IRON—WET TYPE—MODEL M-4



Fig. 755

Admirably suited to the line of small engines being presented to the field at the present time for the propulsion of small boats and for use with generating units in larger vessels.

Similar in construction to model M-3 and installed in like fashion.

For Exhaust Pipe Inches	Each	Diam. Inches	Length Overall Inches	Weight Pounds
½	\$6.00	3¼	7¾	4
¾	7.00	3½	8¼	5
1	8.50	3¾	9	6
1¼	9.50	4¼	9½	10

## Exhaust Pipe Flanges CAST BRONZE



Fig. 214

For Pipe Inches	Inside Diameter Inches	Outside Diameter Inches	Weight Each
2	2⅝	4	11 oz.
2½	2⅞	4½	14 oz.
3	3½	5½	1¼ lbs.
3½	4	6	1½ lbs.

Size	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
2	\$1.55	\$2.50	\$3.10
2½	1.90	2.75	3.40
3	2.20	3.45	4.25
3½	2.35	3.60	4.55

## Exhaust Tube Flanges CAST BRONZE



Fig. 738

For Tubing Inches	Inside Diam. Inches	Outside Diam. Inches	Weight Each
2	2 ⅞	4	11 oz.
2½	2 ⅞	4½	14 oz.
3	3 ⅞	5½	1 lb.
3½	3 ⅞	5½	1¼ lbs.
4	4 ⅞	6	1½ lbs.

Size	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
2	\$1.15	\$2.15	\$2.80
2½	1.55	2.50	3.10
3	1.90	2.75	3.40
3½	2.20	3.45	4.25
4	2.35	3.60	4.55

## Gasoline Funnels

GALVANIZED—WITH STRAINER



Fig. 81

Made of galvanized sheet steel with No. 80 mesh bronze strainer.

No.	Each	Diam. Top Inches	Height Inches	Capacity Gallons
1	\$1.30	8	8½	½



## Runabout Steerers

DASHBOARD TYPE—FOR TILLER ROPE  
15 INCH WHEEL—BLACK FINISH  
POLISHED ALUMINUM ALLOY CASTINGS

These steerers combine good looks and sturdiness. The wheel is hard rubber with steel core. 10 feet of Bowden wire is furnished with steerers having throttle control.

WITH 22 DEGREE BRACKET

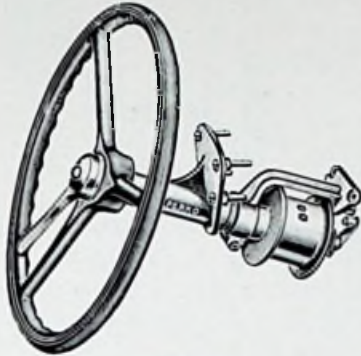


Fig. 1131

Without Controls Each	With Controls Each	Length Dash to Wheel Inches	Length Overall Inches	Diam. Drum Inches	Weight Pounds
\$22.00	\$25.00	6½	13	3	8

WITH 40 DEGREE BRACKET



Fig. 1149

Without Controls Each	With Controls Each	Length Dash to Wheel Inches	Length Overall Inches	Diam. Drum Inches	Weight Pounds
\$25.00	\$28.00	10½	17	3	9¼

## Handles and Bolts FOR STEERING WHEELS



Fig. 553



Fig. 554

Handles Only		Galvanized Bolts Only		Bronze Bolts Only	
Length Inches	Each	Size Inches	Each	Size Inches	Each
3	\$ .25	¾ x 3½	\$ .25	¾ x 3¼	\$ .35
3½	.35	7/8 x 4¼	.35	7/8 x 4	.45
4	.60	¾ x 4½	.60	7/8 x 4½	.70

## Racing Outboard Steerers

WITHOUT CONTROLS



Fig. 737

All metal parts are aluminum alloy castings for light weight. Wheel is 3 spoke hard rubber in black finish with steel core.

Each	Diam. Wheel Inches	Diam. Base Inches	Overall Height Inches	Diam. Drum Inches	Weight Pounds
\$13.50	15	6¼	5½	3	6½

## Racing Outboard Steerers

WITH REMOTE THROTTLE CONTROL AND CUTOUT



Fig. 447

Cast aluminum alloy with black finish hard rubber steel cored wheel, complete with 10 feet control wire and casing.

Each	Diam. Wheel Inches	Diam. Base Inches	Overall Height Inches	Diam. Drum Inches	Weight Pounds
\$22.00	15	7⅞	6	3	7½

## Drum Steerers

GALVANIZED CAST IRON OR CAST BRONZE FOR TILLER ROPE



Fig. 661

Overall Diam. Inches	Galv. Each	Polished Bronze Each	Size Base Inches	Diam. Drum Inches	Length Drum Inches
12	\$ 6.60	\$ 9.00	3¾ x 3⅞	2¾	3
16	9.00	14.00	4 x 4	2¾	3¾
20	15.60	24.00	5⅞ x 5⅞	3⅞	4⅞
25	27.00		5¾ x 5¾	4	6



## Worm Geared Steerer

ALL BRONZE—WITHOUT WHEEL OR FITTINGS  
 MODEL A-1—FOR WHEEL BOX MOUNTING  
 FOR 1 INCH DIAMETER VERTICAL SHAFT

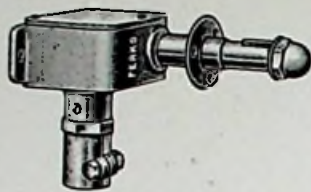


Fig. 512

Steering ratio, 10½ to 1. 1¼ turns equals 45 degree rudder angle.

For rudder of 4 square foot area.

Each	Diam. Wheel Shaft Inches	*Length Wheel Shaft Inches	Length For Hub Inches	Size For Overall Inches	Weight Pounds
\$39.60	1	3¾	2½	7¼x2½	15½

Model E—With reversed shaft for thru-bulkhead mounting to order, use above price.

Larger sizes with larger shaft for rudder up to 10 square feet to order, price on application.

\*Length between box and wheel.

WITH WHEEL AND FITTINGS  
 ALL BRONZE—WITHOUT VERTICAL SHAFT

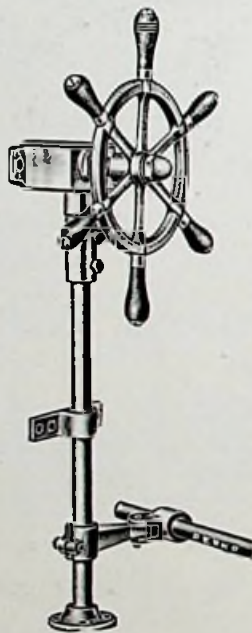


Fig. 820

	Each
Complete with 16 inch bronze wheel.....	\$76.50
Complete with 20 inch bronze wheel.....	79.50
Complete with 24 inch bronze wheel.....	87.00

### SPARE PARTS

Bronze wheels only, see Fig. 976, Sizes 4, 5 and 6.	
Lower lever with clevis, Fig. 865, Nos. 1 and 5.....	\$10.45
Bulkhead Bracket, Fig. 865, No. 6.....	4.90
Floor plate, Fig. 865, No. 8.....	4.80

Note: Regular lever supplied is 6 inch centers, can be supplied with 8 or 10 inch levers, add \$1.00 each.

## Chain Type Steerers

ALL BRONZE—WITH ROLLER CHAIN  
 FOR WHEEL BOX MOUNTING

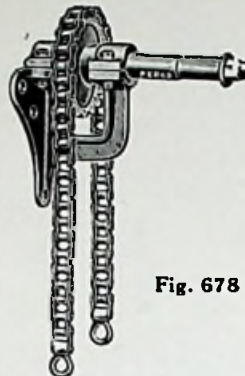


Fig. 678

Sprocket, 4¾ inch diameter, 21 teeth.

Chain, 36 inches long, ¾ inch pitch.

Shaft machined for hub 2½ inches thick.

Wheel End of Shaft Inches	Each	*Length Shaft Inches	Dimensions of Bracket Inches	Weight Pounds
¾	\$33.50	2⅞	6x5½	11
1	36.00	2⅞	6x5½	11½

\*Length between bracket and wheel.

Chain only, per foot.....	\$3.50
Chain Shackles, each.....	1.30
Acorn Nuts, each.....	1.00
Sprocket only, each.....	6.50

Wheels for above see Figs. 657, 914 and 976, Sizes 4, 5 and 6.

Special machining of shaft, on application.

Supplied with reversed shaft for thru-bulkhead mounting to order, on application.

WITH POLISHED BRONZE WHEEL



Fig. 674  
 For Wheel Box Mounting

Outside Diameter Wheel Inches

16  
 20  
 24

Polished Bronze Each  
 \$41.00  
 48.00  
 57.50

Chromium Plated Each  
 \$48.00  
 55.00  
 63.00

Fig. 675  
 For Thru-Bulkhead Mounting



Machined Wheel End of Shaft Inches

¾  
 ⅞  
 1

Diam. Shaft Inches  
 |  
 |  
 |

Wheel, shaft and nut only are polished or plated, balance of steerer is plain bronze.

Wheel only, see figs. 914 and 976, sizes 1, 2 and 3.



## Chain Type Steerers WITH INLAID MAHOGANY WHEEL



Fig. 676

Diameter Wheel Inches	Each	Wheel End of Shaft Inches
20	\$68.50	$\frac{3}{8}$
24	75.00	1
28	86.00	1

Steerer only, see Fig. 678.

Wheel only, see Fig. 657.

## New Mahogany Drum Steerer MAHOGANY WHEEL WITH INTEGRAL DRUM POLISHED BRONZE MOUNTING

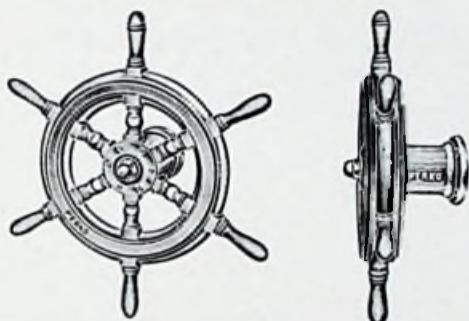


Fig. 648

Diameter Wheel Inches	Each	Length Drum Inches	Diameter Drum Inches	Weight Pounds
18	\$40.00	$3\frac{1}{4}$	3	$5\frac{1}{4}$
20	45.00	$3\frac{1}{4}$	3	$5\frac{1}{2}$

## Steering Wheels CAST BRONZE—WOOD GRIPS

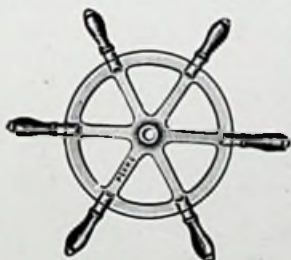


Fig. 976

With Short Hub for steerers Figs. 674 and 675						
No.	Overall Diam. Inches	Polished Bronze Each	Chromium Plated Each	For Shaft Inches	Length Hub Inches	Keyway Inches
1	16	\$11.00	\$15.00	$\frac{3}{8}$	1	$\frac{1}{4}$
2	20	15.00	20.00	$\frac{3}{8}$	1	$\frac{1}{4}$
3	24	21.50	26.50	1	$1\frac{1}{4}$	$\frac{1}{4}$
With Long Hub for steerers Figs. 512 and 678						
4	16	\$17.00	\$21.00	$\frac{3}{8}$ or 1	$2\frac{1}{8}$	$\frac{1}{4}$
5	20	20.00	25.00	$\frac{3}{8}$ or 1	$2\frac{1}{8}$	$\frac{1}{4}$
6	24	27.50	32.50	1	$2\frac{1}{8}$	$\frac{1}{4}$

## Steering Wheels BRASS—WOOD GRIPS—ROUND SPOKES



Fig. 914

With Short Hub for steerers Figs. 674 and 675						
No.	Overall Diam. Inches	Polished Brass Each	Chromium Plated Each	For Shaft Inches	Length Hub Inches	Keyway Inches
1	16	\$18.00	\$22.00	$\frac{3}{8}$	1	$\frac{1}{4}$
2	20	21.00	26.00	$\frac{3}{8}$	1	$\frac{1}{4}$
3	24	26.00	31.00	1	$1\frac{1}{4}$	$\frac{1}{4}$
With Long Hub for steerers Figs. 512 and 678						
4	16	\$21.00	\$25.00	$\frac{3}{8}$ or 1	$2\frac{1}{8}$	$\frac{1}{4}$
5	20	24.00	29.00	$\frac{3}{8}$ or 1	$2\frac{1}{8}$	$\frac{1}{4}$
6	24	29.00	34.00	1	$2\frac{1}{8}$	$\frac{1}{4}$

## Mahogany Steering Wheels INLAID RIM—CAST BRONZE HUB

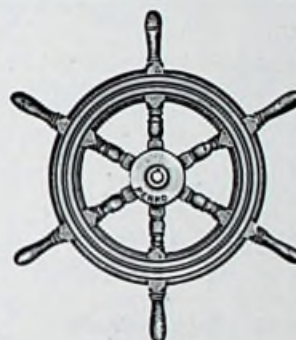


Fig. 657

Diam. Overall Inches	Each	For Diam. Shaft Inches	Thickness of Hub Inches	Size Keyway Inches
18	\$33.00	$\frac{3}{8}$	$2\frac{1}{8}$	$\frac{1}{4}$
20	35.00	$\frac{3}{8}$ or 1	$2\frac{1}{8}$	$\frac{1}{4}$
24	39.50	1	$2\frac{1}{8}$	$\frac{1}{4}$
28	49.50	1	$2\frac{1}{8}$	$\frac{1}{4}$
30	66.00	1	$2\frac{1}{8}$	$\frac{1}{4}$
36	99.00	$1\frac{1}{4}$	$2\frac{1}{2}$	$\frac{3}{8}$
42	110.00	$1\frac{1}{4}$	$2\frac{1}{2}$	$\frac{3}{8}$
48	123.00	$1\frac{3}{8}$	$2\frac{1}{2}$	$\frac{3}{8}$

With bunged rim to order, price on application.

## New Electrolysis Eliminators PURE ZINC

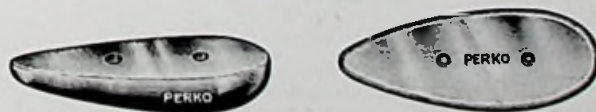


Fig. 244

A necessity if the boat is used in salt water. Streamlined for mounting on the deadwood or planking. Arrests electrolysis of under water brass fittings.

Most boats require two, in some cases larger boats require more.

Each	Length Inches	Width Inches	Depth Inches	Weight Pounds
\$1.65	$5\frac{1}{4}$	$2\frac{1}{8}$	1	$1\frac{1}{2}$



**Columbian Propellers**

MANGANESE BRONZE—AILS CRAIG TYPE

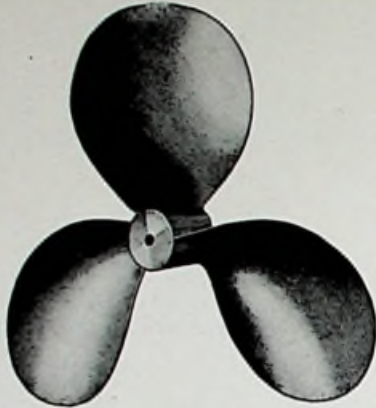


Fig. 809—1st Quality

Fig. 739—Peerless Quality

Diam. Inches	Fig. 809 3 Blade Each	Fig. 739 3 Blade Each	Boring Each	Maximum Standard Bore Inches
10	\$ 13.30	\$ 11.30	\$ 2.75	7/8
11	13.85	11.80	2.75	1
12	14.75	12.50	3.00	1 1/8
13	16.20	13.80	3.00	1 1/8
14	17.80	15.35	3.25	1 1/4
15	20.20	17.20	3.75	1 1/4
16	22.65	19.25	3.95	1 3/8
17	25.20	21.50	4.75	1 3/8
18	27.75	23.60	4.75	1 3/8
19	33.85	28.80	5.00	1 1/2
20	39.95	33.95	5.00	1 1/2
21	48.30	41.25	5.50	1 3/4
22	55.40	47.00	5.50	1 3/4
23	61.00	51.95	6.25	1 3/4
24	66.55	56.60	6.25	1 3/4
25	72.00	61.45	6.90	2
26	80.95	68.80	7.50	2
27	88.55	75.35	8.00	2
28	96.80	82.25	8.00	2
30	114.40	97.25	9.40	2 1/4
32	140.00	126.00	11.25	2 1/2
34	162.80	146.75	12.50	2 3/4
36	196.00	176.00	15.00	2 3/4
38	226.00	203.50	17.50	3
40	262.00	235.40	20.00	3
42	298.00	268.40	23.75	3 1/4
44	336.00	302.50	27.50	3 1/4
46	380.00	342.10	31.25	3 1/2
48	437.00	392.70	35.00	3 1/2
50	470.00	423.50	42.50	4

With larger hub for larger bore—on application.

2 blade and special styles—on application.

**Bronze Rudder Collars**



Fig. 815

For Diam. Stock Inches	Each	Outside Diameter Inches	Thickness Inches	Weight Ounces
1	\$1.70	1 3/4	1 1/8	7
1 1/8	1.70	1 3/4	1 1/8	6 1/2
1 1/4	2.20	2 1/8	1 1/8	11
1 3/8	2.75	2 1/2	1 1/8	19
1 1/2	3.00	2 1/2	1 1/8	19

**Speed Boat Rudders**

CAST MANGANESE BRONZE

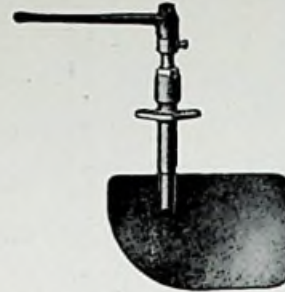


Fig. 813

Furnished complete with tiller, collar, nut and rudder port. Standard length stock above blade 12 inches.

No.	Complete Each	Rudder Only Each	Blade Size Inches	Diam. Stock Inches	Length Tiller Inches
1	\$36.50	\$20.00	9x14	1	12
2	41.00	24.50	10x16	1	12
3	47.00	27.50	11x18	1 1/8	14
4	63.00	35.20	12x20	1 1/4	16

With stock longer than standard, price on application.

**Hyspeed Rudder and Stock**

CAST MANGANESE BRONZE

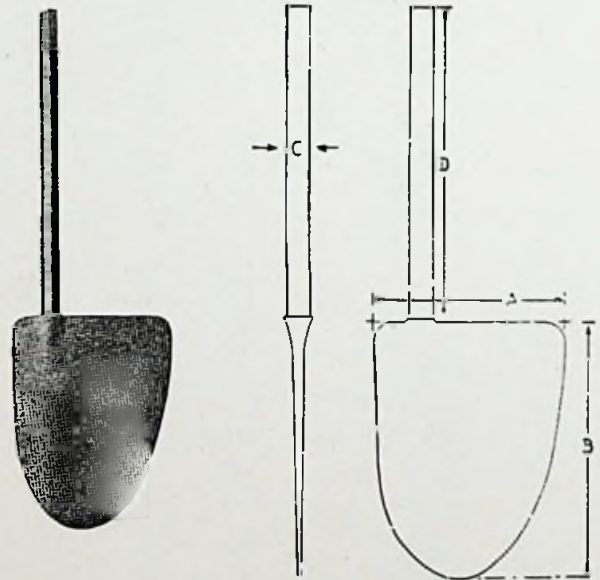


Fig. 818

Constructed in perfectly balanced proportion. Designed for express cruisers, runabouts, speedboats and all boats not carrying a skag.

**DIMENSIONS, INCHES**

No.	Each	Longer Stock Add per Inch	A	B	C	D
1	\$21.45	\$ .22	9	12	1	16
2	26.15	.28	10 1/2	14	1 1/8	18
3	27.50	.39	12	16	1 1/4	18
4	36.85	.44	13 1/2	18	1 3/8	24
5	52.00	.50	15	20	1 1/2	24
6	76.50	.66	16 1/2	22	1 3/4	30
7	104.00	.83	18	24	2	36
8	141.00	1.00	20	26	2 1/4	40



## Cruiser Rudders

CAST MANGANESE BRONZE

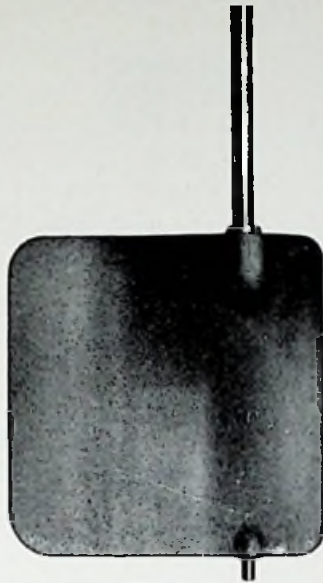


Fig. 816

Blade Size Inches	Each	Blade Thickness Inches	Diam. of Stock Inches	Total Length of Stock Inches	Longer Stocks Per Inch
12x12	\$18.50	1/4	—	12	.22
13x13	20.00	1/4	—	12	.22
14x14	24.20	1/4	—	12	.22
15x15	27.50	1/4	—	12	.22
16x16	30.80	1/4	—	12	.22
18x16	32.20	1/4	—	12	.22
18x18	35.20	1/4	—	12	.22
20x18	39.90	1/4	1 1/4	18	.39
20x20	46.00	1/4	1 1/4	18	.39
22x18	47.85	1/4	1 1/4	18	.39
22x20	60.00	3/8	1 1/4	18	.39
22x22	61.60	3/8	1 1/4	18	.39
24x20	61.60	3/8	1 1/4	18	.39
24x22	63.00	3/8	1 1/4	18	.39
24x24	64.65	3/8	1 1/4	18	.39

## Quadrant Tillers

GALVANIZED MALLEABLE IRON



Fig. 651

Radius Inches	Galv. Each	Max. Diam. Rope Inches	Square Hole Adjustable Inches	Weight Pounds
7	\$ 3.60	3/8	1 1/8 to 3/4	3
10	6.50	3/8	1 1/8 to 1	5 1/4
12	9.00	3/8	3/4 to 1 1/4	8 1/2
15	13.75	1/2	3/4 to 1 1/4	13
18	22.75	5/8	1 to 1 3/8	27
24	47.00	3/4	1 1/2 to 1 3/4	46

Note: 7 inch size is galv. cast iron.

## Galvanized Rudders

GALVANIZED FORGED STEEL



Fig. 647

Size No.	Galv. Each	Size Plate Inches	Square End of Post Inches	Length Rudder Post Inches	Diam. Rudder Post Inches	Weight Each Pounds
0	\$ 7.15	12x12x1/8	5/8	40	3/4	11
1	8.80	14x14x1/8	5/8	42	3/4	13
2	12.35	16x16x3/16	3/4	48	1	25
3	15.60	18x18x3/16	3/4	52	1	35

## Rudder Skags

DROP FORGED STEEL OR BRONZE



Fig. 649

Size No.	Galv. Each	Plate Bronze Each	Dimensions Inches	For Rudder Post Inches	Weight Each Pounds
0	\$2.90	\$ 6.50	24x1 1/2 x 3/8	3/4	4 1/2
1	4.20	10.00	30x1 3/4 x 1/2	3/4	9
2	7.80	21.00	42x2 x 5/8	1	17

## Straight Tillers

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 650

With square hole and set screw for Fig. 647 rudder.

Length Inches	Galv. Each	Plain Bronze Each	Size of Square Hole Inches	Weight Each (Iron) Pounds
8	\$1.80	\$3.50	5/8 x 3/8	1
10	2.00	4.00	5/8 x 3/8	1 1/4
12	3.00	4.25	3/4 x 3/4	2 1/8
15	3.75	8.00	7/8 x 7/8	3 1/2

## Bronze Tillers

CAST MANGANESE BRONZE



Fig. 810

For round stock rudders Figs. 813, 816, 818.

No.	Each	Length Inches	For Rudder Stock Inches	Size Keyway Inches	Weight Pounds
1	\$ 8.00	12	1	1/4	3 1/4
2	11.00	14	1 1/8	1/4	4 1/2
3	17.50	16	1 1/4	3/8	7



## Rudder Ports with Stuffing Box

CAST BRONZE—PLAIN  
WITH BRASS GREASE CUPS

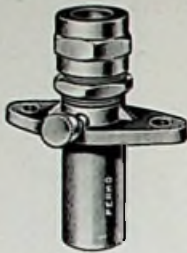


Fig. 1089

Eliminates leakage at rudder post entrance through the hull.

Bronze bearing is full length of casting. Assures smooth action with minimum wear.

Size Inches	Each	Size Flange Inches	Length Bearing Inches	Drilled for Fastening Inches	Weight Pounds
3/4	\$7.20	4 x 2	5 1/8	1 1/8	3
7/8	7.55	4 1/4 x 2 1/4	5 3/8	3/8	3 1/4
1	7.80	4 1/4 x 2 1/2	5 1/4	3/8	3 1/2
1 1/8	8.45	5 x 2 3/8	5 1/4	1/2	3 3/4
1 1/4	10.40	5 3/4 x 3	6 3/8	1/2	5 1/2
1 3/8	11.40	6 1/4 x 3 1/4	6 3/4	1/2	6 1/2
1 1/2	12.35	6 1/2 x 3 1/2	6 3/4	1/2	6 3/4

## Rudder Brace Pintles

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 1071

Size No.	Galv. Each	Plain Bronze Each	Between Straps Inches	Length Straps Inches	Width Straps Inches	Galv. Weight Ounces
000		\$ .45	1/2	2 1/4	3/4	3
00	\$ .30	.50	5/8	2 3/8	3/4	4
0	.40	.60	3/4	3 1/2	7/8	6
1	.50	.70	7/8	4 1/4	7/8	7
2	.65		1	4 1/2	1	10
3	.80		1 1/4	4 3/4	1	11
4	1.10		1 1/2	5 1/2	1 1/4	23

## Rudder Brace Gudgeons

GALVANIZED MALLEABLE IRON OR BRONZE  
STRAP TYPE



Fig. 1070

Size No.	Galv. Each	Plain Bronze Each	Between Straps Inches	Length Straps Inches	I. D. Hole Minimum Inches	Galv. Weight Ounces
000		\$ .30	1/2	1 1/2	3/8	2
00	\$ .25	.40	5/8	2	7/16	2 1/2
0	.30	.45	3/4	2 1/2	1/2	3 1/2
1	.40	.60	7/8	3	1/2	4 1/2
2	.45		1	3	7/8	5
3	.60		1 1/4	3 1/4	5/8	7
4	.70		1 1/2	3 3/4	3/4	12

## Rudder Brace Gudgeons

GALVANIZED MALLEABLE IRON OR BRONZE  
NARROW PLATE TYPE



Fig. 1072

Size No.	Galv. Each	Plain Bronze Each	Length Plate Inches	Width Plate Inches	I. D. Hole Minimum Inches	Galv. Weight Ounces
000		\$ .30	1 1/8	1	7/16	1 1/2
00	\$ .30	.40	1 1/8	1	7/16	2
0	.40	.45	2	1 1/8	7/16	3
1	.45	.50	2 1/8	1 3/8	1/2	3 1/2
2	.50		2 3/8	1 1/4	9/16	4

WIDE PLATE TYPE



Fig. 1073

Size No.	Galv. Each	Plain Bronze Each	Length Plate Inches	Width Plate Inches	I. D. Hole Minimum Inches	Weight Ounces
000		\$ .30	2 1/8	5/8	3/8	3
00	\$ .30	.40	3 3/8	3/4	7/16	3 1/2
0	.40	.45	3 1/2	7/8	7/16	4 1/2
1	.45	.50	3 3/8	7/8	1/2	6
2	.50		4 1/4	1	11/16	7
3	.65		4 1/2	1 1/8	3/4	8
4	.80		4 3/4	1 1/4	15/16	10

SCREW TYPE

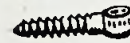


Fig. 1074

Size No.	Galv. Each	Plain Bronze Each	Diam. Shank Inches	I. D. Hole Minimum Inches	Weight Ounces
000		\$ .20	1/8	3/8	1
00	\$ .13	.20	3/8	7/16	1
0	.16	.26	3/8	1/2	1 1/2
1	.20	.40	1/2	7/16	2
2	.26		1/2	1/2	

## Sliding Rudder Fittings

CAST BRONZE

For use on dinghys and small sail boats. The rudder slides on a cast bronze track which has a stop at the bottom.

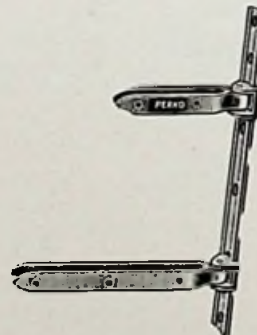


Fig. 552

Between Straps Inches	Width Track Inches	Length Track Inches	Complete Per Set	Track Only Each
3/8	1	18	\$8.75	\$3.90





### "Perko" Reverse Gear Controls

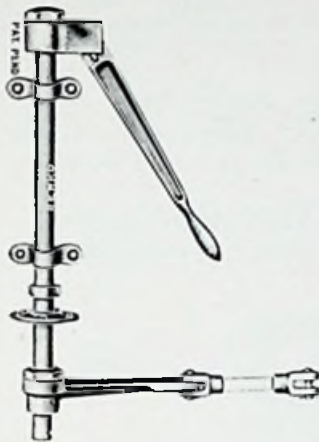
HEAVY CAST BRONZE—POLISHED  
FOR 1 INCH OR 1 1/4 INCH SHAFT

NO MACHINING OF SHAFT—NO EXTRA EXPENSE

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.



Interior view of tapered fastening device.

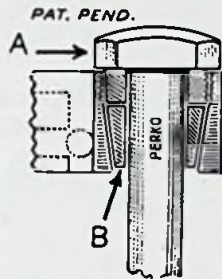


Fig. 663

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.....					\$35.00
Handle complete with tapered bushing and nut.....					19.50
1 inch bronze shaft—per foot.....					3.00
1 1/4 inch bronze shaft—per foot.....					3.50
Chromium plated, add 40% to above prices.					
Do not fail to specify size of shaft when ordering					

### Reverse Gear Controls

SPECIAL CAST BRONZE

A good substantial handle which will not bend under side leverage, special hard government bronze. Handle is removable and a flush plate is furnished to fit opening in deck flange.

Furnished with two sockets threaded for 3/4 inch rod. Deck flange is 5 x 2 1/2 inches. Length of throw is 8 1/2 inches.

Polished Bronze Each	Chromium Plated Each	Length Handle Inches	Length Lever Inches
\$28.50	\$36.50	25	8



Fig. 720

### "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.

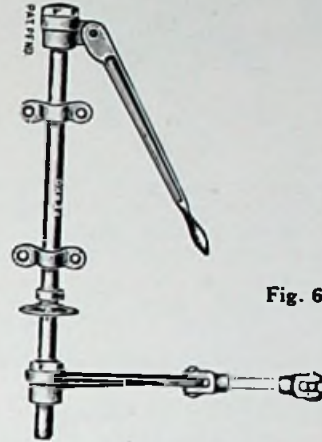


Fig. 664

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.....					\$30.00
Handle complete with tapered bushing and nut.....					14.00
1 inch bronze shaft—per foot.....					3.00
Chromium plated, add 40% to above prices.					

### Clutch Control

CAST BRONZE—FOR 1 INCH SHAFT

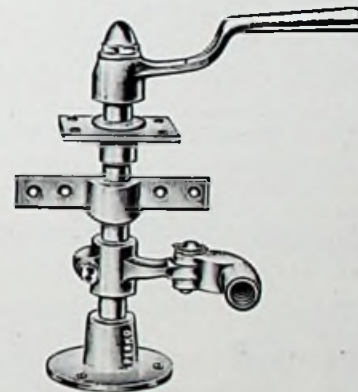


Fig. 822

Supplied with bulkhead bracket or shelf plate (please specify). Shaft is not included.

With 8" Handle		(With 10" Handle)		(With 12" Handle)	
Polished Bronze Per Set	Chromium Plated Per Set	Polished Bronze Per Set	Chromium Plated Per Set	Polished Bronze Per Set	Chromium Plated Per Set
\$32.00	\$39.50	\$33.00	\$40.50	\$34.00	\$42.00

SPARE PARTS		Polished Bronze Each	Chromium Plated Each
8 inch handle .....		\$ 8.00	\$11.25
10 inch handle .....		9.00	12.25
12 inch handle .....		10.00	13.50
Acorn nuts .....		2.00	2.65
Balance of parts, see Fig. 865, Nos. 3, 4, 6, 9, 11.			

NOTE—Spare parts for Figs. 663 and 664 see Fig. 865, Nos. 2, 7, 10, 12.





**Spark and Throttle Controls**

FRICION TYPE FOR CONTROL ROD  
CAST BRONZE

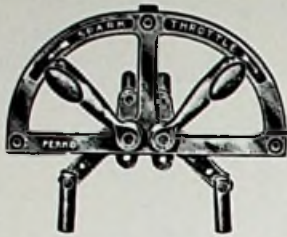


Fig. 653

Control rod sockets are tapped for 1/4 or 1/8 inch rod. Shafts for connecting rods are long enough for mounting on bulkhead 2 inches thick.

Polished Bronze Each	Chromium Plated Each	Size Frame Inches	Weight Each Pounds
\$8.00	\$11.75	6 1/2 x 3 1/4	1 1/4

Sockets for 1/4 inch rod furnished unless otherwise specified.

**Spark and Throttle Controls**

FRICION TYPE—FOR BOWDEN WIRE

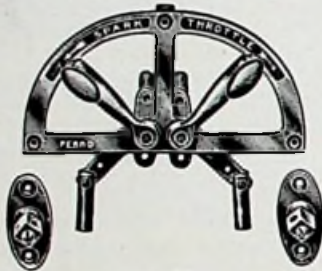


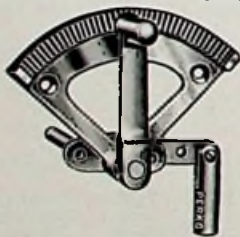
Fig. 654

Equipment includes special clips for connecting bowden wire and two swivel clamps for supporting bowden casing.

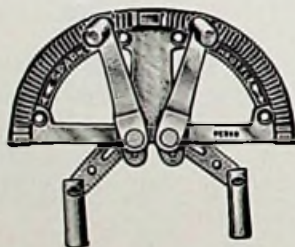
Polished Bronze Each	Chromium Plated Each	Size Frame Inches	Weight Each Pounds
\$10.00	\$13.75	6 1/2 x 3 1/4	1 1/2

**Spark and Throttle Controls**

RATCHET TYPE—FOR CONTROL ROD  
CAST BRONZE



Single  
Fig. 690



Double  
Fig. 691

Rod connections are inside bulkhead out of sight. Can be mounted on bulkhead up to 1 3/8 inches thick. Rod sockets are for 1/8 inch rod. Furnished for 1/4 inch rod to order.

Fig.	Polished Bronze Each	Chromium Plated Each	Frame Size Inches
690	\$4.25	\$6.00	4 1/4 x 3 1/8
691	8.00	11.75	6 x 3

**"Sea-Way" Throttle Control**

CAST BRONZE—FOR 3/8 INCH ROD

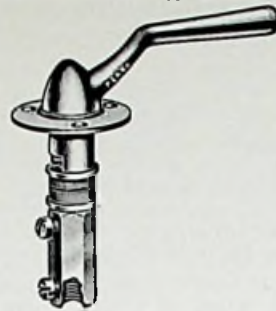


Fig. 847

A powerful control with a man sized handle. For mounting on top of wheel box or shelf. Has heavy leather washers between flange and rod socket. Tension can be increased or decreased by adjusting rod socket.

Polished Bronze Each	Chromium Plated Each	Length Handle Inches	For Rod Diam. Inches	Diam. Flange Inches	Weight Pounds
\$7.25	\$8.50	4 1/2	3/8	2 1/4	1

**"Sea-Prince" Throttle Control**

CAST BRONZE—FOR 1/4 INCH ROD



Fig. 848

Same design and ability as the Sea-Way Control above but fitted with lever arm and socket for mounting on side of wheel box or bulkhead.

Polished Bronze Each	Chromium Plated Each	Length Handle Inches	Length Lever Arm Inches	Diam. Flange Inches	Weight Pounds
\$8.00	\$9.00	4 1/2	3 1/2	2 1/4	1

**Throttle Controls**

FOR ROD OR CONTROL WIRE  
CAST BRONZE—RATCHET TYPE



Fig. 715  
For Control Wire



Fig. 716  
For Control Rod

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, or rod socket for 1/4 or 1/8 inch rod.

Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Length Plate Inches	Width Plate Inches
\$7.75	\$9.75	\$11.25	6	2 3/8

BE SURE TO SPECIFY SIZE OF ROD WHEN ORDERING



## Remote Throttle Controls

PLAIN CAST BRONZE  
FOR BOWDEN WIRE

SIDE PATTERN FLOOR PATTERN

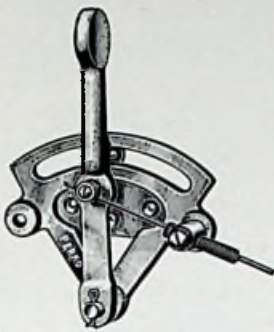


Fig. 350

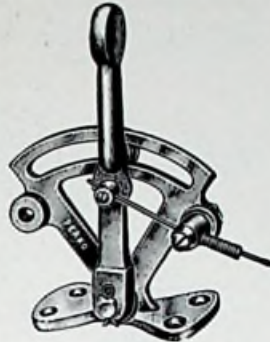


Fig. 351

Either Style Each	Size Floor Plate Inches	Width Overall Inches	Height Overall Inches	Weight Ounces
\$2.75	3x1 3/4	3 3/4	5 3/4	14

Prices do not include Bowden Wire or Casing.

## Spark and Throttle Controls

CAST BRONZE—ADJUSTABLE—FOR ROD



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	Chromium Plated Each	Dimensions of Base Inches	Dimensions of Frame Inches	Weight Ounces
Single	\$4.00	\$6.75	2x1 7/8	5x4 3/8	10
Double	6.25	9.25	2x1 7/8	5x4 3/8	13

Specify size of rod when ordering, otherwise 1/4 inch rod sockets will be supplied.

## Front Bulkhead Controls

FOR BOWDEN WIRE  
CAST BRONZE—POLISHED

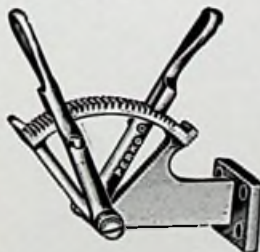


Fig. 409

For use with Control Wire and Casing.

	Polished Bronze Each	Chrom. Plated Each	Length Arc Inches	Extreme Projection Inches	Mounting Plate Inches	Weight Pounds
Single	\$4.50	\$7.50	2 5/8	5	1 7/8 x 1 3/8	3/4
Double	6.75	10.00	2 5/8	5	1 7/8 x 1 3/8	1

## Spark and Throttle Control

FOR 1/4 OR 5/16 CONTROL ROD  
CAST BRONZE—RATCHET TYPE



Fig. 331

Polished Bronze Each	Chromium Plated Each	Length Plate Inches	Width Plate Inches
\$9.75	\$13.00	6	2 1/2

BE SURE TO SPECIFY SIZE OF ROD WHEN ORDERING

## Dashboard Choke Controls

ALL BRASS CONTROL HANDLE



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
\$2.75	\$3.00	\$3.30	\$4.00

WITH BRASS CASING AND WIRE

5 Ft. Lengths Per Set	7 Ft. Lengths Per Set	10 Ft. Lengths Per Set	15 Ft. Lengths Per Set
\$3.35	\$3.85	\$4.65	\$6.00

With chromium plated handle, add \$ .25 per set.

## Bowden Wire and Casing

TINNED STEEL OR BRASS  
STRONG—FLEXIBLE

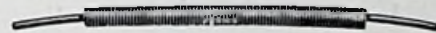


Fig. 353

Wire and casing furnished in lengths up to 100 feet each.

	Complete Per Foot	Casing Only Per Foot	Wire Only Per Foot	O. D. Casing Inches	Diam. Wire Inches
Steel	\$.12	\$.09	\$.03	1/4	.072
Brass	.24	.18	.06	1/4	.072

## Control Wire Handles

ALL BRASS—WITH SPRING

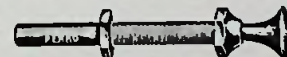


Fig. 692

Control wire and casing can be easily attached. For use on a dash or bulkhead up to 2 inches thick.

Polished Brass Each	Chromium Plated Each	Length Overall Closed Inches	Outside Diam. Stem Inches	Weight Ounces
\$1.75	\$2.00	4 1/2	3/8	3



## Control Cranks

CAST BRONZE—PLAIN— $\frac{1}{4}$  OR  $\frac{1}{8}$  INCH ROD  
SIDE OR UPRIGHT TYPES

Side Type

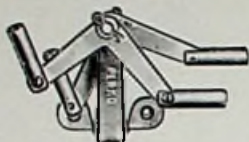


Fig. 636

Length  
Arms  
Inches

2

Height  
Overall  
Inches

$2\frac{3}{8}$

Size  
Base  
Inches

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

Upright Type



Fig. 637

Weight  
Single  
Ounces

5

Weight  
Double  
Ounces

7

### SIDE OR UPRIGHT TYPE

For Rod Inches	Single Complete Each	Double Complete Each	Cranks Only Each	Brackets Only Each
$\frac{1}{4}$	\$1.50	\$2.45	\$.50	\$.55
$\frac{3}{16}$	1.75	2.70	.50	.55

Spare Sockets, see Fig. 328, Standard Type.

Specify size of rod when ordering, otherwise  $\frac{1}{4}$  inch rod sockets will be supplied.

## Bowden Casing Clamp

FORGED BRONZE—SWIVEL TYPE—PLAIN



Fig. 352

Will hold control casing firmly while swivel feature allows smooth sliding of control wire in casing at any angle.

Each	Size Base Inches	Weight Ounces
\$.70	$2\frac{1}{4} \times 1$	3

## Elbow Ball Joints

ALL BRASS—PLAIN



Fig. 792

Each	Thread Inches	Length Threads Inches	O. D. Female End Inches	Weight Ounces
\$.35	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{5}{16}$	$\frac{1}{2}$

Male and female ends threaded U.S.S. 20 threads per inch.

## Control Rod Sockets

PLAIN BRASS

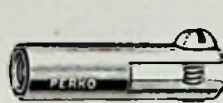


Fig. 328

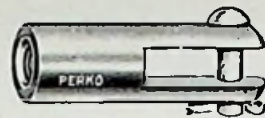


Fig. 295

No.	Each	Standard Fig. 328		Overall Length Inches	Between Jaws Inches	Length Jaws Inches
		Tapped For Rod Inches	Outside Diam. Inches			
1	\$.35	$\frac{1}{4}$	$\frac{3}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	$\frac{3}{4}$
2	.40	$\frac{3}{16}$	$\frac{7}{16}$	$1\frac{3}{8}$	$\frac{3}{16}$	$\frac{3}{4}$
Heavy Duty Fig. 295						
3	.40	$\frac{1}{4}$	$\frac{1}{2}$	$1\frac{5}{8}$	$\frac{1}{4}$	1
4	.40	$\frac{3}{16}$	$\frac{1}{2}$	$1\frac{3}{8}$	$\frac{1}{4}$	$1\frac{1}{8}$

Length jaws measured to center of pin.

## Control Rod Sockets

EXTRA HEAVY TYPE—BRASS—PLAIN



Fig. 298

Made from  $\frac{1}{2}$  inch square brass rod.

No.	Each	Tapped For Rod Inches	Outside Diam. Inches	Overall Length Inches	Between Jaws Inches	Length Jaws Inches
5	\$.50	$\frac{1}{4}$	$\frac{7}{16}$	$1\frac{1}{2}$	$\frac{3}{16}$	$\frac{1}{2}$
6	.55	$\frac{3}{16}$	$\frac{7}{16}$	$1\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{2}$

Length jaws measured to center of pin.

## Control Wire Sockets

PLAIN BRASS



Fig. 679

Complete with brass cotter pin and brass set screw.

Each	Length Inches	Diameter Inches	Between Jaws Inches	Length Jaws Inches	Weight Ounces
\$.40	1	$\frac{3}{8}$	$\frac{1}{8}$	$\frac{1}{2}$	$\frac{1}{2}$

Length jaws measured to center of cotter pin.

## Adjustable Ball Joints

ALL BRASS—PLAIN

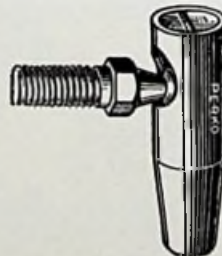


Fig. 793

Adjustable for wear, tension around ball increased by strong spring.

Each	Thread Inches	Length Threads Inches	O. D. Female End Inches	Weight Ounces
\$.55	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{7}{16}$	1

Male and female ends threaded U.S.S. 20 threads per inch.





**Steerer and Control Parts**  
CAST BRONZE

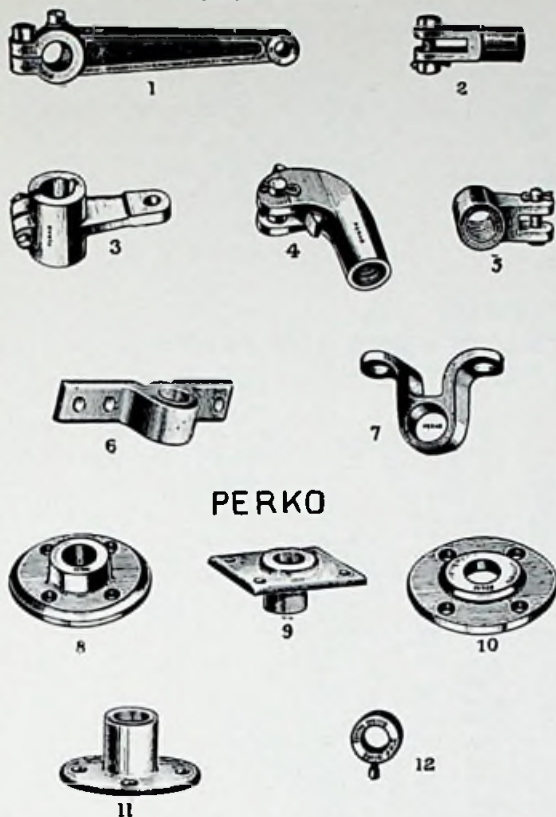


Fig. 865

No.	Plain Bronze Each	Length Center of Holes Inches	Extreme Length Inches	For Diam. Rod Inches	Tapped For Pipe Inches	Diam. Bolt Inches	Size Jaws Inches
1	\$6.50	6	8	1		1/2	
2	2.95		2 1/4	3/4	1/2	1/2	5/16
2A	3.75		4		3/4	1/2	5/16
3	6.00	2 3/4	4 1/2	1		1/2	
4	4.50		3 1/2	1	3/4	1/2	5/16
5	3.95	1 3/4	3	1	3/4	1/2	5/16

No.	Bronze Polished Each	Width Inches	Length Inches	Outside Diam. Inches	For Diam. Rod Inches	Depth to Center of Bore Inches
6	\$4.90	7	1 1/4		1	1 1/8
7	4.90	4 1/2	1 1/4		1 or 1 1/8	2 1/8
8	4.80			3 3/4	1	
9	4.00	4	3 3/8		1	
10	4.25			4	1 or 1 1/8	
11	4.25 Plain			4 3/4	1 Height	2 1/8
12	1.60			1 1/2	1 or 1 1/8	

**Bronze Universal Joints**  
CAST BRONZE—PLAIN



Fig. 93

No.	Each	Bored for Rod Inches	Tapped for Pipe Inches	Extreme Length Inches	Weight Pounds
1	\$4.40	3/4	1/2	4 1/2	1
2	9.80	1	3/4	6	2 1/4

**Gasoline or Oil Strainers**  
PLAIN BRONZE—WOVEN BRASS SCREEN

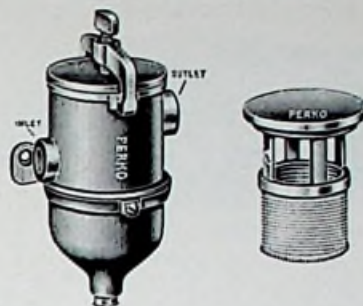


Fig. 299

With Yoke, Thumbscrew and Supporting Bracket. Cover easily removed and the strainer removed for cleaning without disturbing pipe connections. Pipe plug in bottom for draining. Side bracket supports the strainer, relieving the fuel pipes of all weight.

Size No.	Each	Length Overall Inches	Diam. Inches	Tapped For Pipe Inches	Weight Pounds
1	\$ 7.50	5 1/2	2 3/8	1/4 or 3/8	3
1 1/2	10.50	6 1/4	3 1/8	3/8 or 1/2	5
2	14.00	7 1/4	3 7/8	1/2 or 3/4	7

With 20 x 100 mesh screen for gasoline.  
With 24 x 24 mesh screen for oil.  
Gasoline strainers supplied unless otherwise specified.  
With special mesh screen, price on application.

**Intake Water Strainers**  
CAST BRONZE  
MONEL SCREEN—LUCITE CYLINDER



Fig. 493

For installation between inlet connection and water pump to the engine. Lucite cylinders are difficult to break even when struck with hammer. Gaskets are corprene, (neoprene and cork) waterproof and resilient.

No.	Complete Each	Pipe Size Inches	Overall Height Inches	Overall Width Inches	Weight Pounds
1	\$16.00	1/2	7	4 3/8	5
2	25.00	3/4	10 1/4	5 3/8	7 1/2
3	26.00	1	10 1/4	5 3/8	7 1/2
4	28.00	1 1/4	10 1/4	5 3/8	7 1/2
5	38.00	1 1/2	13 1/4	7	14 1/2
6	53.00	2	19	9	22

Mounting brackets for bulkhead can be supplied as an extra.



## B. F. GOODRICH CUTLESS RUBBER BEARINGS

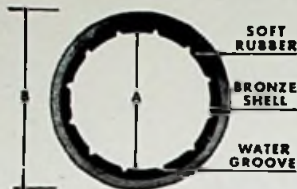


Fig. 1021

Often Outlast Hard Surface Bearings 15 Times

- Efficiently lubricated by water.
- Resist sand and grit.
- No scoring of shaft.
- Reduce vibration and noise.
- Least possible friction.
- Easy to install.

### STANDARD BEARINGS STOCK SIZES—TABLE OF DIMENSIONS, WEIGHTS AND PRICES

Sizes Shown Here are in Stock for Immediate Shipment

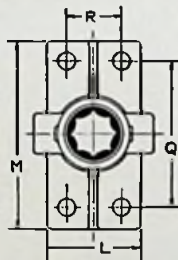
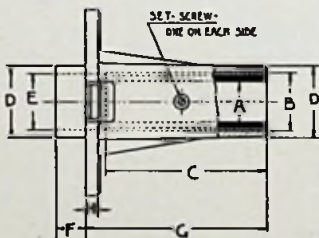
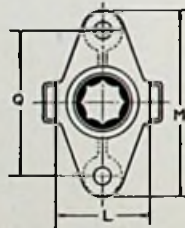
Code	A—Shaft Diameter	B—Outside Diameter	Standard Length	Shipping Weight, Lbs.	Price Each	Special Length Price per Lin. In.*	Code	A—Shaft Diameter	B—Outside Diameter	Standard Length	Shipping Weight, Lbs.	Price Each	Special Length Price per Lin. In.*	Code	A—Shaft Diameter	B—Outside Diameter	Standard Length	Shipping Weight, Lbs.	Price Each	Special Length Price per Lin. In.*
KALE.....	3/4"	1 1/4"	3"	3/4	\$6.20	\$2.27	KITEM.....	1 1/4"	2 3/8"	7 1/2"	3 1/4	\$20.80	\$3.26	NEPHEW.....	3 3/8"	4 1/2"	14 1/2"	12 3/4	\$53.60	\$4.36
KATY.....	7/8"	1 3/8"	3 1/2"	1 1/4	7.20	2.27	KITEZ.....	1 1/2"	2 1/4"	7 1/2"	4	20.80	3.26	NEPTUNE.....	3 3/8"	4 1/2"	15"	10 1/2	69.50	4.68
KATZ.....	1"	1 1/2"	3 1/2"	1	7.20	2.27	KITH.....	2"	2 3/8"	8"	3 1/4	21.80	3.30	NERVE.....	3 3/8"	5"	17 1/2"	17 3/4	69.50	4.68
KAYAK.....	1 1/8"	1 3/4"	4"	1	8.30	2.38	KNAVE.....	2"	3"	8"	4 1/2	21.80	3.30	NEST.....	3 3/8"	5 1/4"	15"	18	69.50	4.68
KEFER.....	1"	1 3/8"	4"	1	8.30	2.38	KNIT.....	2 1/8"	2 1/4"	8 1/2"	4 1/2	23.50	3.30	NEWELL.....	3 3/8"	5 1/4"	15 1/2"	20	63.60	4.84
KEEPER.....	1"	1 3/8"	4"	1 1/2	8.30	2.38	KNOB.....	2 1/8"	2 1/4"	8 1/2"	4 1/2	23.50	3.30	NIBBLE.....	4"	5 1/4"	16"	28	68.40	5.04
KERSEY.....	1 1/8"	1 3/4"	4 1/2"	1 1/4	9.80	2.44	KNOLL.....	2 1/4"	2 1/4"	9"	4 1/2	25.40	3.36	NIBBLED.....	4"	5 1/4"	16"	29 1/2	68.40	5.04
KERNY.....	1 1/8"	1 3/4"	4 1/2"	1 1/2	9.80	2.44	KORAN.....	2 1/4"	2 1/4"	9"	5	25.40	3.36	NIBBLING.....	4 1/8"	5 1/4"	16 1/2"	31	71.60	5.12
KID.....	1 1/8"	1 3/4"	4 1/2"	1 1/2	9.80	2.44	KUMISS.....	2 1/4"	2 1/4"	9"	0	25.40	3.36	NICETY.....	4 1/8"	5 1/4"	17"	29 1/2	74.40	5.12
KIDNAP.....	1 1/4"	1 3/4"	5"	1 1/2	11.20	2.50	NABAS.....	2 3/8"	3 3/8"	9 1/2"	0	27.30	3.38	NICHE.....	4 3/8"	5 3/4"	17 1/2"	33 1/2	77.80	5.22
KIANO.....	1 1/4"	1 3/4"	5"	1 1/2	11.20	2.50	NAKED.....	2 3/8"	3 3/8"	10"	5	28.20	3.44	NICK.....	4 3/8"	5 3/4"	18"	33 1/2	82.00	5.36
KIDNEY.....	1 1/4"	1 3/4"	5"	1 1/2	11.20	2.50	NATION.....	2 3/8"	3 3/8"	10"	0	28.20	3.44	NIGGARD.....	4 3/8"	5 3/4"	18"	35	82.00	5.36
KIN.....	1 1/4"	1 3/4"	5 1/2"	2	12.40	2.66	NATISM.....	2 3/8"	3 3/8"	10 1/2"	5 1/2	30.80	3.50	NIGGARDLY.....	4 3/8"	5 3/4"	18 1/2"	39	89.40	5.68
KINCY.....	1 1/4"	1 3/4"	5 1/2"	2 1/2	12.40	2.66	NATIVE.....	2 3/8"	3 3/8"	11"	5 1/2	33.40	3.56	NIGHTLESS.....	4 3/8"	5 3/4"	19"	43 1/2	96.30	6.34
KINDLE.....	1 1/4"	1 3/4"	5 1/2"	2 1/2	12.40	2.66	NATURE.....	2 3/8"	3 3/8"	11"	0	33.40	3.56	NIGHTLY.....	4 3/8"	5 3/4"	19 1/2"	43	101.20	6.10
KINE.....	1 1/4"	2"	6"	2	14.30	2.78	NAVAL.....	2 3/8"	3 3/8"	11 1/2"	6 1/2	34.70	3.62	NIGHT.....	5"	6 1/2"	20"	45	106.60	6.28
KINGDOM.....	1 1/2"	2 3/8"	6"	2 1/2	14.30	2.78	NAVY.....	3"	3 3/4"	12"	8	36.80	3.66	NOBLE.....	5"	6 1/2"	20"	50 1/2	108.60	6.28
KINKY.....	1 1/2"	2 3/8"	6 1/2"	2 1/2	16.70	3.02	NECK.....	3"	4"	12"	8 1/2	36.80	3.66	NOBODY.....	5 1/8"	7"	21"	80 1/2	118.30	6.84
KINSHIP.....	1 1/2"	2 3/8"	6 1/2"	3	16.70	3.02	NECKING.....	3 1/4"	4 1/4"	12 1/2"	8 1/2	39.60	3.72	NOBUR.....	5 1/8"	7"	21 1/2"	75	124.00	6.80
KIP.....	1 1/2"	2 3/8"	7"	2 1/2	18.90	3.16	NECTAR.....	3 1/4"	4 1/4"	13"	9 1/2	42.60	3.86	NOMAD.....	5 1/8"	7"	22 1/2"	65	129.20	6.95
KITE.....	1 1/2"	2 3/8"	7"	3 1/4	18.90	3.16	NEGATIVE.....	3 1/4"	4 1/4"	13"	10	42.60	3.86	NOMAR.....	5 1/8"	7"	23 1/2"	70	134.50	7.04
							NEGLECT.....	3 3/4"	4 1/4"	13 1/2"	10 1/2	46.00	4.02	NONAGE.....	5 1/8"	7"	23"	62 1/2	140.20	7.18
							NEGRO.....	3 1/2"	4 1/2"	14"	10	49.10	4.14	NOOK.....	6"	7 1/2"	24"	70	156.00	7.64
							NEIGHBOR.....	3 1/2"	4 1/2"	14"	11 1/2	49.10	4.14							

\*To obtain price of bearing lengths other than standard, multiply length in inches by price per lineal inch given in this column.

### STERN CASTINGS COMPLETE WITH CUTLESS RUBBER BEARINGS, OVAL AND SQUARE BASE



Oval Base Fig. 187



Rectangular Base Fig. 188

Pricing and dimensions of larger sizes furnished on request. When ordering, it is only necessary to give pattern number. Holes in flanges drilled unless otherwise specified.

The advantages of this type of bearing are many. The castings are made of high-grade bronze of heavy construction, and will last as long as the boat. They are not to be confused with some of the light, flimsy constructions often sold at a price.

The flanges correspond in sizes with the usual bronze and babitted bearings of this type. The P. F. Goodrich Cutless Bearing can be easily removed from the main casting by taking out the set screws.

No vibration. Sand or silt is carried out without injury to shaft or bearing.

No attention or adjustment necessary. These bearings are provided with scoops for water lubrication and no additional scoops or other provisions for water supply are necessary.

#### TABLE OF DIMENSIONS AND PRICES

Dimensions of Cutless Bearings		Order by Pattern Number										Pat. No. S. I.	Drilled for Bolts, Ins.	Pat. No. Oval Base	Drilled for Bolts, Ins.	Price Complete with Cutless Bearing
A	B	C	D	E	F	G	H	I	L	M						
3/4"	1 1/4"	3"	1 3/8"	1 1/2"	1 1/2"	3 1/2"	3 1/2"	3 1/2"	2 1/2"	4 1/4"	B-1	3/8"	B-3	3 1/2"	\$13.40	
7/8"	1 3/8"	3 1/2"	1 1/2"	1 1/2"	1 1/2"	4"	4"	4"	2 1/2"	4 1/4"	B-2	3/8"	B-4	4"	13.60	
1"	1 1/2"	4"	1 1/2"	1 1/2"	1 1/2"	4 1/4"	4 1/4"	4 1/4"	2 1/2"	5"	C-1	3/8"	C-9	4 1/2"	13.70	
1 1/4"	1 3/4"	4 1/2"	2 1/2"	2 1/2"	2 1/2"	5 1/4"	5 1/4"	5 1/4"	2 1/2"	5 1/2"	C-2	3/8"	C-10	5"	16.40	
1 1/2"	2"	5"	2 1/2"	2 1/2"	2 1/2"	5 1/2"	5 1/2"	5 1/2"	2 1/2"	6"	C-3	3/8"	C-1	5 1/2"	19.30	
1 3/4"	2 1/4"	5 1/2"	2 1/2"	2 1/2"	2 1/2"	6"	6"	6"	2 1/2"	6 1/2"	C-4	3/8"	C-2	6"	21.40	
1 3/8"	2 1/8"	6"	2 1/2"	2 1/2"	2 1/2"	6 1/4"	6 1/4"	6 1/4"	2 1/2"	7"	C-5	3/8"	C-3	6 1/2"	27.00	
1 3/8"	2 1/8"	7"	3 1/8"	3 1/8"	3 1/8"	6 1/2"	6 1/2"	6 1/2"	2 1/2"	8"	C-6	3/8"	C-4	7"	35.80	
2"	2 1/2"	8"	3 1/2"	3 1/2"	3 1/2"	7"	7"	7"	2 1/2"	8 1/2"	C-7	3/8"	C-5	7 1/2"	43.70	
2 1/4"	3 1/4"	9"	3 3/4"	3 3/4"	3 3/4"	7 1/4"	7 1/4"	7 1/4"	2 1/2"	9 1/2"	C-8	3/8"	C-6	8 1/2"	55.60	
2 1/2"	3 3/8"	10"	4"	4"	4"	7 1/2"	7 1/2"	7 1/2"	2 1/2"	10 1/2"	E-20	3/8"	C-7	9"	64.80	
2 3/4"	3 3/4"	11"	4 1/4"	4 1/4"	4 1/4"	7 3/4"	7 3/4"	7 3/4"	2 1/2"	11 1/2"	E-21	3/8"	C-8	10"	79.00	
3"	4"	12"	4 1/2"	4 1/2"	4 1/2"	8"	8"	8"	2 1/2"	12"	E-22	3/8"	C-9	11"	93.00	





**Stuffing Boxes**  
CAST BRONZE—REGULAR

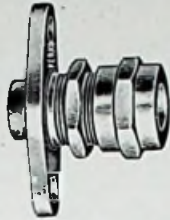


Fig. 320

Shaft Size Inches	Each	Size Flange Inches	For Diam. Bolt Inches	C. to C. Bolt Holes Inches	Length Bearing Inches	Weight Pounds
5/8	\$3.55	3 7/8 x 1 3/4	5/16	2 5/8	2 1/8	1 1/8
3/4	3.65	4 x 1 3/4	3/8	2 5/8	2 1/8	1 1/8
7/8	3.75	4 1/8 x 1 7/8	1/4	3	2 5/8	1 1/2
1	4.50	4 1/4 x 2 1/8	1/4	3	2 5/8	1 3/4
1 1/8	5.20	4 7/8 x 2 1/8	1/2	3 5/8	2 7/8	2 1/4
1 1/4	6.15	5 3/4 x 2 3/8	1/2	4 1/8	2 7/8	3
1 3/8	7.15	6 1/4 x 3	1/2	4 3/4	3	3 1/4
1 1/2	8.15	6 1/2 x 3	1/2	5	3	3 1/2
1 3/4	12.65	7 x 3 3/4	3/8	5 1/2	4	5 3/4

**Stuffing Boxes and Stern Bearings**  
CAST BRONZE—HEAVY

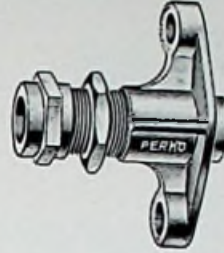


Fig. 631



Fig. 632

Shaft Size Inches	Fig. 631 Each	Fig. 632 Each	Size Flange Inches	For Diam. Bolt Inches	C. to C. Bolt Holes Inches	Lgth. Bearing Inches	Fig. 631 Weight Pounds
1	\$8.80	\$4.55	5 3/4 x 3	1/2	4 3/8	4 1/2	4 1/2
1 1/8	9.10	5.20	6 3/8 x 3 1/4	1/2	5 1/4	4 1/2	5
1 1/4	10.40	6.20	7 x 3 1/2	5/8	5 3/8	4 3/4	6 1/2
1 3/8	11.70	7.80	7 5/8 x 3 3/4	3/8	6 1/4	5 1/4	7 1/2
1 1/2	14.00	9.10	8 x 4	3/8	6 1/2	5 3/8	9
1 3/4	19.80	12.70	9 1/8 x 4	3/4	7 1/2	7	11 1/2
2	23.40	16.25	10 1/8 x 4 1/2	3/4	8 3/8	7 5/8	12

**Stern Bearings**  
CAST BRONZE—REGULAR



Fig. 321

Shaft Size Inches	Each	Size Flange Inches	For Diam. Bolt Inches	C. to C. Bolt Holes Inches	Length Bearing Inches	Weight Pounds
5/8	\$1.75	3 3/8 x 1 3/4	1/8	2 5/8	2 1/8	3/4
3/4	1.95	4 x 1 3/4	3/8	2 5/8	2 1/8	3/4
7/8	2.15	4 1/8 x 1 7/8	1/4	3	2 5/8	1
1	2.40	4 1/4 x 2 1/8	1/4	3	2 5/8	1 1/4
1 1/8	2.90	4 7/8 x 2 1/8	1/2	3 5/8	2 7/8	1 1/2
1 1/4	3.60	5 3/4 x 2 3/8	1/2	4 1/8	2 7/8	2
1 3/8	4.55	6 1/4 x 3	1/2	4 3/4	3	2 1/4
1 1/2	5.10	6 1/2 x 3	1/2	5	3	2 1/2
1 3/4	7.15	7 x 3 3/4	3/8	5 1/2	4	3 3/4

**Extra Heavy Stuffing Boxes**  
RECTANGULAR FLANGE—CAST BRONZE



Fig. 819

Shaft Size Inches	Each	Size Flange Inches	For Diam. Bolt Inches	C. to C. Bolt Holes Inches	Length Bearing Inches	Weight Pounds
1	\$10.25	5 x 3	1/2	3 3/4 x 1 3/4	4	5 1/2
1 1/8	11.00	5 1/2 x 3 3/8	1/2	4 1/4 x 2 1/4	4 1/4	6 1/2
1 1/4	11.70	5 5/8 x 3 3/8	1/2	4 3/8 x 2 1/4	4 3/4	7
1 3/8	13.00	6 x 4	1/2	4 1/8 x 2 1/2	5	9
1 1/2	15.60	6 x 4 3/8	1/2	4 1/2 x 3	5 1/2	10
1 3/4	22.00	6 1/2 x 4 1/2	5/8	5 1/8 x 3 1/4	7	13 1/2
2	26.00	7 3/4 x 5	5/8	5 7/8 x 3 3/8	7 3/8	15 1/2

**Stuffing Boxes and Stern Bearings**  
THREADED FOR PIPE—CAST BRONZE

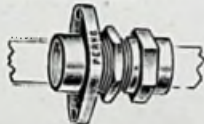


Fig. 711



Fig. 712

Size Shaft Inches	Fig. 711 Stuffing Box Each	Fig. 712 Stern Bearing Each	Size Flange Inches	Tapped for Pipe Inches	Drilled for Fastening Inches
3/4	\$4.75	\$3.00	4 x 2 1/8	3/4	3/8
7/8	4.95	3.25	4 3/4 x 2 1/8	1	1/8
1	5.70	3.60	4 3/4 x 2 3/8	1	1/8
1 1/8	6.45	4.15	5 3/4 x 3	1 1/4	1/2
1 1/4	7.50	4.90	6 x 3	1 1/4	1/2
1 3/8	8.45	5.85	6 1/2 x 3 5/8	1 1/2	1/2
1 1/2	9.55	6.50	6 3/4 x 3 3/4	1 1/2	1/2

**Extra Heavy Stern Bearings**  
RECTANGULAR FLANGE—CAST BRONZE



Fig. 906

For Diam. Shaft Inches	Plain Each	Weight Pounds
1	\$ 6.20	4
1 1/8	6.85	5
1 1/4	7.50	5 1/2
1 3/8	9.00	6 3/4
1 1/2	10.75	8
1 3/4	15.00	10 1/2
2	18.75	12

All other dimensions same as fig. 819 above.

NOTE—LENGTH BEARING SHOWN DOES NOT INCLUDE PACKING NUT OR SPACE FOR PACKING.





## Self Aligning Stuffing Boxes CAST BRONZE—RECTANGULAR FLANGE

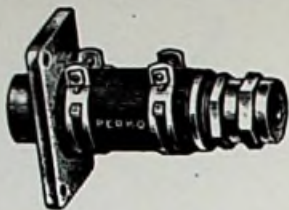
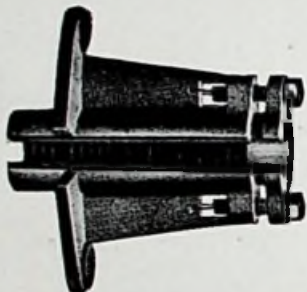


Fig. 734

A cast bronze base and stuffing box joined by heavy rubber hose and extra strong hose clamps.

No.	Each	For Size Shaft Inches	Size Flange Inches	Length From Flange to End of Box Inches
1	\$10.50	3/4-7/8-1	5x3 1/4	6 3/4
2	15.00	1 1/8-1 1/4	6x4 1/4	7 3/4
3	19.00	1 3/8-1 1/2	7x4 1/2	8 3/4

## Flax Packed Stuffing Boxes and Stern Bearings WITH RECTANGULAR OR OVAL FLANGE



RECTANGULAR FLANGE—Fig. 811  
OVAL FLANGE—Fig. 821

Shaft Size Inches	Each	Size Flange Inches	Length Bearing Inches
1	\$11.00	5 1/4 x 2 3/8	5 1/4
1 1/8	13.00	6 x 3	5 3/4
1 1/4	14.60	6 3/8 x 3 1/4	6 1/4
1 3/8	16.00	7 1/4 x 3 3/8	6 3/4
1 1/2	23.50	8 x 4	7 3/4
1 3/4	37.00	9 1/4 x 4 5/8	9
2	50.00	10 1/2 x 5 1/4	9 1/4
2 1/4	57.50	12 x 6	11 1/8
2 1/2	71.00	13 1/4 x 6 3/8	12 1/4
3	119.00	16 x 8	15
3 1/2	180.00	18 1/2 x 9 1/4	17

## Midget Adjustable Strut CAST BRONZE—FOR SMALL INBOARD ENGINES



Fig. 660

Maximum drop is 5 inches, can be reduced to 3 inches. Adjustable to any angle of shaft.

Each	Diam. Shaft Inches	Size of Base Inches	Length Bearing Inches	Weight Pounds
\$5.50	3/8 or 3/4	3 1/2 x 2 1/4	2 1/4	2

## Adjustable Struts ALL CAST BRONZE MARINE BABBITT BEARING

Side View

End View

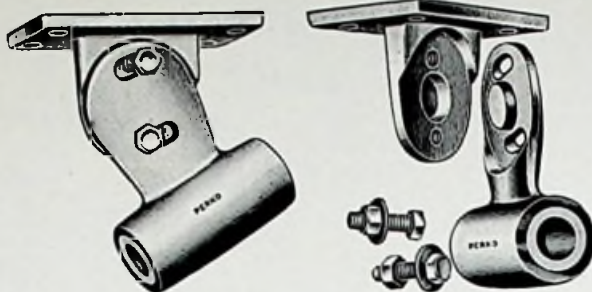


Fig. 628

Adjustable to any practical angle of the propeller shaft, held fast at necessary angle by two 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.

Lgth. Drop In.	Size Shaft Inches						
	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2
5	\$17.50	\$17.50	\$17.50	\$17.50			
6	18.00	18.00	18.00	18.00	\$24.50	\$28.50	\$28.50
7	18.50	18.50	18.50	18.50	25.00	29.00	29.00
8	19.00	19.00	19.00	19.00	25.50	29.50	29.50
9	19.50	19.50	19.50	19.50	26.00	30.00	30.00
10	20.00	20.00	20.00	20.00	27.00	31.00	31.00
11	21.00	21.00	21.00	21.00	28.00	32.00	32.00
12					23.00	30.00	34.00

Specify Size Shaft and Length of Drop, When Ordering

## Adjustable Struts FOR GOODRICH RUBBER BEARING CAST BRONZE—EXTRA HEAVY

Size Shaft Inches	Width Flange Inches	Length Flange Inches	Bearing Inches
3/4	3	5 1/2	3
7/8	3	5 1/2	3 1/2
1	3	5 1/2	4
1 1/8	3	5 1/2	4 1/2
1 1/4	3 1/2	6 1/2	5
1 3/8	3 1/2	6 1/2	5 1/2
1 1/2	3 1/2	6 1/2	6



Fig. 1019

Prices below do not include rubber bearing. For bearings see page 88, Fig. 1021. Use bearings having the smallest outside diameter listed.

Lgth. Drop In.	Size Shaft Inches						
	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2
5	\$24.00	\$24.00	\$24.00	\$24.00	\$33.50	\$37.50	\$37.50
6	24.50	24.50	24.50	24.50	34.00	38.00	38.00
7	25.00	25.00	25.00	25.00	34.50	38.50	38.50
8	25.50	25.50	25.50	25.50	35.00	39.00	39.00
9	26.00	26.00	26.00	26.00	35.50	39.50	39.50
10	27.00	27.00	27.00	27.00	36.00	40.00	40.00
11					37.00	41.00	41.00
12					39.00	43.00	43.00

Specify Size Shaft and Length of Drop, When Ordering





**Midget Self Aligning Shaft Log**  
CAST BRONZE—FOR SMALL INBOARD ENGINES



Fig. 695

Stuffing box and base are connected by heavy rubber hose to take up vibration and whip. Base is undrilled to allow drilling as required.

No.	Each	Size Shaft Inches	Size Base Inches	Length Overall Inches	Degrees of Pitch	Weight Pounds
0	\$9.00	3/8	9 3/8 x 2 1/2	15	10	3 3/4
1	9.25	3/4	9 3/8 x 2 1/2	15	10	3 3/4

This unit uses stuffing box Fig. 672 size 0 reamed out for either 3/8 or 3/4 inch shaft.

**Adjustable Shaft Logs**  
CAST BRONZE—EXTRA HEAVY



Fig. 627

Furnished complete with grease cup and rubber gasket for installing.

No.	Each	Size Shaft Inches	Length Base Inches	Width Base Inches	Weight Pounds
1	\$27.00	3/4	16	3 1/2	14
2	27.75	7/8	16	3 1/2	14
3	28.50	1	16	3 1/2	14
4	40.00	1 1/8	22	4 1/4	19
5	41.00	1 1/4	22	4 1/4	19
6	60.00	1 3/8	26	5	30
7	61.00	1 1/2	26	5	30
8	80.00	1 3/4	28	5 1/2	57
9	81.00	2	28	5 1/2	57

**Adjustable Shaft Logs**  
CAST BRONZE



Fig. 577

Cast Bronze Ball and Socket arrangement gives ample adjustment in all directions.

Range of adjustment between 12 and 25 degrees. Flange bolts are locked with set screws.

No.	Each	Size Shaft Inches	Length Overall Inches	Length Base Inches	Width Base Inches	Wt. Lbs.
1	\$21.50	3/4	17 3/4	14	3 3/8	11
2	21.50	7/8	17 3/4	14	3 3/8	11
3	21.50	1	17 3/4	14	3 3/8	11
4	35.00	1 1/8	25	20	4 1/2	21
5	36.00	1 1/4	25	20	4 1/2	21
6	55.00	1 3/8	28 1/2	23	5 1/4	28
7	56.00	1 1/2	28 1/2	23	5 1/4	28

**Self Aligning Shaft Logs**  
CAST BRONZE

ALLOWS INSTALLATION OF ENGINE WELL AFT



Fig. 589

Stuffing box and shaft are cushioned in rubber, reducing vibration in the hull to a minimum and eliminating excessive wear on shaft and bearing.

Furnished without screw or bolt holes to allow drilling as required.

No.	Each	For Size Shaft Inches	Size Base Inches	Length Overall Inches	Degrees of Pitch	Wt. Lbs.
0	\$ 9.50	3/8	8x4	9	14	3
1	13.50	3/4	10x5	11 1/4	14	5 1/2
2	14.00	7/8	10x5	11 1/4	14	5 1/2
3	14.50	1	10x5	11 1/4	14	5 1/2

**Self Aligning Shaft Logs**  
CAST BRONZE



Fig. 671

Stuffing box and base are connected by heavy rubber hose to take up vibration and whip.

No.	Each	Size Shaft Inches	Size Base Inches	Length Overall Inches	Angle in Degrees	Wt. Lbs.
1	\$13.75	3/4	12x3 1/2	18	11	7
2	14.50	7/8	12x3 1/2	18	11	7
3	15.00	1	12x3 1/2	18	11	7
4	21.25	1 1/8	17x4 1/4	23 1/2	11	12
5	23.75	1 1/4	17x4 1/4	23 1/2	11	12
6	32.50	1 3/8	19x5	28	11	20
7	33.75	1 1/2	19x5	28	11	20

**STUFFING BOX AND EXTRA RUBBER HOSE FOR SELF ALIGNING SHAFT LOG AND STUFFING BOX**



Fig. 672



Fig. 1092



Fig. 673

For Log No.	Size Shaft Inches	Stuffing Box Each	Hose Each	Hose Clamps Per Pair	I. D. Hose Inches	O. D. Hose Inches	Length Hose Inches
0	5/8	\$3.25	\$ .70	\$ .80	1 1/4	1 3/4	3 1/4
1	3/4	3.90	1.00	1.20	1 3/4	2 3/8	4
2	7/8	4.55	1.00	1.20	1 3/4	2 3/8	4
3	1	5.25	1.00	1.20	1 3/4	2 3/8	4
4	1 1/8	6.50	1.65	1.70	2 3/8	3	5
5	1 1/4	7.80	1.65	1.70	2 3/8	3	5
6	1 3/8	10.50	2.75	2.60	2 5/8	3 1/2	5
7	1 1/2	11.75	2.75	2.60	2 5/8	3 1/2	5





## Thrust Ball Bearings

Flat Race  
Bronze Retainers



Fig. 786

Diameter Shaft Inches	Fig. 786 Each	Fig. 942 Each
5/8	\$2.00	\$1.45
3/4	2.15	1.55
7/8	2.30	1.65
1	2.40	1.75
1 1/8	2.65	1.85
1 1/4	2.75	2.00
1 3/8	3.10	2.20
1 1/2	3.40	2.65
1 5/8	3.85	3.00
1 3/4	4.35	3.20
2	5.10	3.85
2 1/4	6.65	4.40
2 1/2	8.30	6.00

Grooved Race  
Steel Retainers



Fig. 942

Outside Diameter Inches	Thickness Inches
1 1/8	1/8
1 1/4	1/8
1 1/2	3/8
1 3/4	3/8
2	5/8
2 1/4	5/8
2 1/2	5/8
3	1 1/8
3 1/4	1 1/8
3 1/2	1 1/8
4	1 3/8
4 1/4	1 3/8
4 1/2	1 3/8
5	1 3/8
5 1/4	1 3/8
5 1/2	1 3/8
6	1 3/8
6 1/4	1 3/8
6 1/2	1 3/8

## Safety Shaft Collars

CAST SEMI STEEL—MACHINED



Fig. 787

Shaft Size Inches	Each	Outside Diameter Inches	Width Inches
5/8	\$ .55	1 3/8	3/4
3/4	.60	1 1/2	1 1/4
7/8	.65	1 5/8	1 1/2
1	.75	1 7/8	1 3/4
1 1/8	.85	2	1 5/8
1 1/4	.95	2 1/8	1 7/8
1 3/8	1.05	2 1/4	2
1 1/2	1.20	2 3/8	2 1/8
1 3/4	1.55	3	2 1/4
2	1.75	3 3/8	2 1/2

## Thrust Ball Bearings

GROOVED RACES  
STEEL RETAINING BAND



Fig. 943

Diam. Shaft Inches	Each	Outside Diam. Inches
5/8	\$1.30	1 1/8
3/4	1.55	1 1/4
7/8	1.65	1 1/2
1	1.75	1 3/4
1 1/8	1.85	2
1 1/4	2.00	2 1/8
1 3/8	2.20	2 1/4
1 1/2	2.60	2 3/8
1 5/8	3.50	2 7/8
1 3/4	4.00	3
2	4.80	3 1/8
2 1/4	5.50	3 3/8
2 1/2	6.50	3 7/8

## Shaft Couplings

CAST IRON

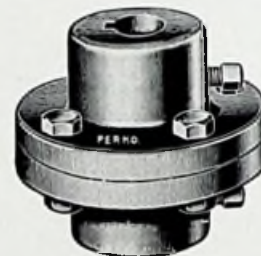


Fig. 327

No.	Each	Size Shaft Inches	Diam. Flange Inches	Length Overall Inches
0	\$3.90	5/8 & 3/4	3	2 5/8
1	5.50	3/8 to 1 1/8	4	3 1/2
2	5.85	3/4 to 1 1/2	4 1/2	4 1/8
3	7.50	1/8 to 1 1/2	5	4 3/4
14	11.50	1 to 2	6	6 1/2

For divided sizes such as 1 x 1 1/8, add \$1.10 each.

For special boring, not listed, add \$2.25 each.

For 1/2 coupling add \$ .55 to half of above prices. No bolts furnished.

### SIZE OF KEYWAY IN SHAFT COUPLINGS

Size Shaft Inches	Keyway Inches	Size Shaft Inches	Keyway Inches
5/8-3/4	3/16	1 3/8-1 1/2	3/8
1-1 1/8	1/4	1 5/8-1 3/4	7/16
1 1/4	5/16	1 7/8-2	1/2

## Flat Bearings

BABBITTED



Fig. 789

For Shaft Size Inches	Each	Dimensions of Base Inches	C. to C. Bolt Holes Inches	Diam. Bolt Holes Inches	Weight Pounds
5/8	\$2.25	4 x 1 1/8	3 1/8	1/4	1
3/4	2.25	4 1/4 x 1 3/8	3 1/2	5/16	1 1/8
7/8	2.50	4 1/4 x 1 1/4	3 3/8	3/8	1 1/4
1	2.50	4 7/8 x 1 1/2	3 3/4	3/8	1 1/2
1 1/8	2.85	5 1/4 x 1 3/8	4 1/4	3/8	2 1/3
1 1/4	2.85	5 1/2 x 1 3/4	4 1/4	3/8	2 5/8
1 3/8	3.50	5 7/8 x 1 7/8	4 5/8	3/8	3 1/2
1 1/2	3.50	6 1/4 x 2	4 7/8	1/2	4 1/4
1 3/4	4.70	6 3/8 x 2 1/4	5 3/8	1/2	6
2	6.00	7 1/2 x 2 1/2	5 3/4	1/2	7 1/4

Larger and intermediate sizes supplied to order.

## Brass Grease Cups



Fig. 961

No.	Height Inches	Inside Diam. Inches	Pipe Thread Inches	Capacity Ounces
1	1 1/8	1/2	1/8	1/8
2	1 3/8	3/4	1/8	1/4
3	2 1/8	1 1/4	1/8	3/8

No.	Each
1	\$ .45
2	.50
3	.65



## Rubber Engine Mountings

OIL RESISTING SYNTHETIC RUBBER  
FOR MARINE ENGINE INSTALLATION

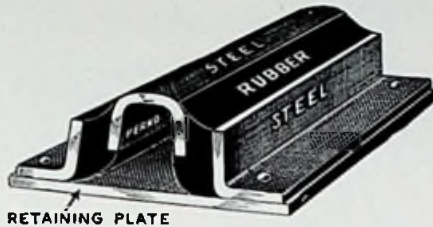


Fig. 455

Capacity 40 lbs. per lineal inch.

Made of 3 metallic members securely bonded to 2 resilient rubber elements arranged in such a manner that the loads are carried in a combination of shear and compression, the central inverted metal "U" carries the load and the extended metal flanges on either side are bolted to the engine bed, thus the rubber connector strips absorb and stop vibration created by the engine, eliminating vibrational noises, and increasing the mechanical efficiency of the engine.

The adhesion of the rubber to the metal is over 500 pounds per square inch.

Furnished with or without a steel plate riveted to the flanges, the steel plate permits the fastening of the mounting to the engine before installing so that engine can be properly lined up.

Extreme Width Inches	Height with Retaining Plate Inches		Height without Retaining Plate Inches		
	2	3	4	5	6
4 $\frac{1}{16}$	1 $\frac{1}{2}$		1 $\frac{3}{8}$		
Length, Inches	2	3	4	5	6
With Plate, Each	\$3.30	\$4.30	\$5.30	\$6.20	\$7.10
Without Plate, Each	2.00	3.00	4.00	4.90	5.80
Capacity, Pounds	80	120	160	200	240

Can be supplied in additional lengths up to five feet.  
Price on application.

## Gy-A-Liner Engine Aligners

CAST IRON—PAINTED  
Patent No. 2123484

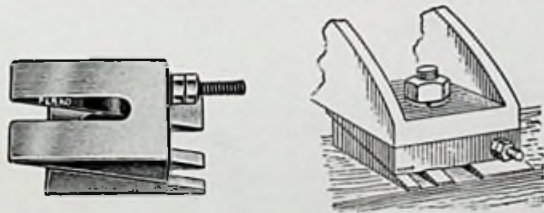


Fig. 1097

Consists of two cast iron wedges adjusted by a galvanized bolt to various heights as required.  
Suitable for all light and medium weight engines.

Each	Size Inches	For Engine Bolt Inches	Normal Height Inches	Height of Adjustment Inches	Weight Each Pounds
\$1.65	2 $\frac{1}{2}$ x 2 $\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{8}$	$\frac{3}{4}$

## Wrought Brass Fog Bells PRESSED BELL METAL



Fig. 159

Diam. Inches	Plain Brass Each	Polished Brass Each	Chromium Plated Each
6	\$3.55	\$4.25	\$5.85
8	5.20	5.85	7.80
Wall Plates only	.65	.80	1.15
Arms only	1.25	1.45	1.95

Diameter	6 in.	8 in.
Hgt. overall	4 in.	5 in.
Extension	1 $\frac{1}{8}$ in.	3 $\frac{1}{8}$ in.
Weight	1 lb.	2 $\frac{1}{2}$ lbs.

## Cast Bronze Fog Bells

LIGHTWEIGHT



Fig. 581

Cast from bell metal. With removable bracket.

Diameter	6 in.	8 in.
Hgt. overall	4 $\frac{1}{2}$ in.	5 $\frac{1}{2}$ in.
Extension	6 $\frac{1}{2}$ in.	8 $\frac{1}{2}$ in.
Weight	3 lbs.	5 lbs.

Diam. Inches	Polished Each	Chromium Plated Each	Wall Plates Only	
			Polished Each	Chromium Plated Each
6	\$9.00	\$13.00	\$1.00	\$1.50
8	12.50	16.50	1.00	1.50



Fig. 420

MEDIUM WEIGHT

Cast from high grade bell metal. Highly polished detachable bracket.

Diameter	6 in.	8 in.
Hgt. overall	5 in.	6 $\frac{1}{2}$ in.
Extension	6 $\frac{1}{2}$ in.	8 $\frac{1}{2}$ in.
Weight	4 lbs.	8 lbs.

Diam. Inches	Polished Each	Chromium Plated Each	Wall Plates Only	
			Polished Each	Chromium Plated Each
6	\$12.00	\$16.00	\$1.25	\$1.75
8	18.75	23.00	1.75	2.50



Fig. 150

HEAVY WEIGHT

Cast from extra heavy bell metal. Complete with removable bracket.

Bottom Diam. Inches	Polished Each	Chrom. Plated Each	Wall Plates Only		Hgt. Inches	Wt. Lbs.
			Polished Each	Chrom. Plated Each		
8	\$30.00	\$37.00	\$ 1.75	\$ 2.50	8	10
10	58.50	67.00	3.00	4.00	10 $\frac{1}{2}$	22
12	78.00	89.00	3.50	4.50	12	38





### Cast Fog Bell

MEDIUM WEIGHT—WITH YOKE



Fig. 386

Diam. Inches	Polished Each	Chromium Plated Each	Height Overall Inches	Weight Pounds
6	\$13.75	\$18.75	7 1/4	4
8	21.50	27.50	9	9

### Brass Electric Horns

VIBRATORY TYPE—6, 12 OR 32 VOLTS  
POLISHED OR CHROMIUM PLATED  
COAST GUARD MODEL

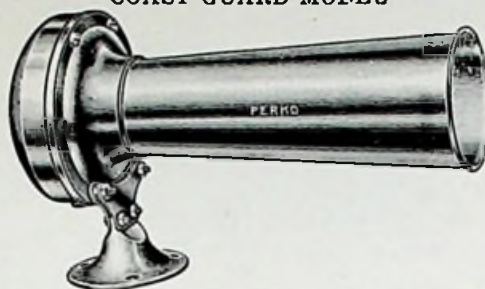


Fig. 75

Complete with button, cable, mounting bolts, screws etc.  
Internal steel parts treated against corrosion.

No.	6 Volt		Length Overall Inches	Height Overall Inches	Diam. Base Inches
	Polished Brass Each	Chromium Plated Each			
1	\$15.00	\$17.50	13	7 1/4	3 7/8
2	22.50	25.00	15 3/4	8 1/2	3 7/8

For 12 volt add \$2.00.

For 32 volt add \$3.50.

Size No. 2 meets U. S. Coast Guard specification No. CR—23075.

### Fog Horns

WITH ADJUSTABLE REED  
GALVANIZED STEEL OR BRASS

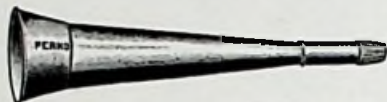


Fig. 162

These horns have a patented slide on the reed which controls the tone. Very easy to adjust or tune.

Length Overall Inches		Galv. Steel Per Doz.	Pol. Brass Per Doz.
18	Without Bell	\$19.50	\$30.00
20	With Bell, as illustrated	23.40	36.00
24	With Bell, as illustrated	27.60	39.00

### Triplex Motor Boat Whistle

ALL BRASS—NICKEL PLATED  
WITH CHAIN AND BUTTON RING

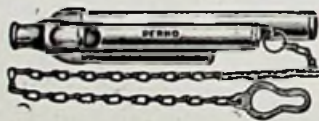


Fig. 168

Per Dozen	Length Overall Inches	Diameter Inches	Length Chain Inches	Weight Per Dozen Pounds
\$14.00	5 3/4	1 1/8	12	2 1/4

### Police or Signal Whistle

POLISHED BRASS OR BAKELITE



Fig. 349

	Per Dozen	Lgth. In.	Width In.	Wt. Per Dz. Ounces
Pol. Brass	\$7.00	2	3/4	17
Bakelite	3.50	2	3/4	9

### Blaster Horn

WITH PUSH BUTTON, CABLE AND RELAY

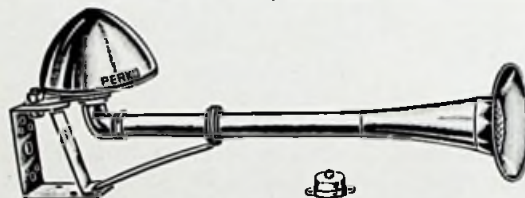


Fig. 989

Polished Brass Each	6 Volt		Length Inches	Width Inches	Height Inches
	Chromium Plated Each				
\$17.50	\$20.00		22	5 1/2	9

For 12 volt add \$2.00.

For 32 volt add \$3.50.

### Super-Blaster Twin Horns

WITH PUSH BUTTON, CABLE AND RELAY

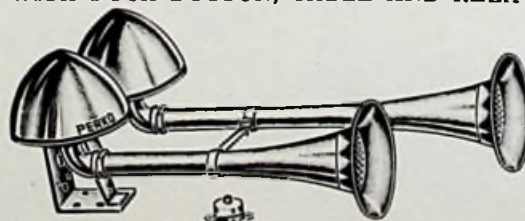


Fig. 990

Polished Brass Per Pair	6 Volt		Length Inches	Width Inches	Height Inches
	Chromium Plated Per Pair				
\$27.50	\$30.00		22	11	9

For 12 volt add \$4.00.

For 32 volt add \$7.00.



## New "Sea-Tone" Horn

ALL BRASS — CHROMIUM PLATED  
WATERTIGHT — WEATHERPROOF  
VOLTAGES 6—12—32—110 D. C.

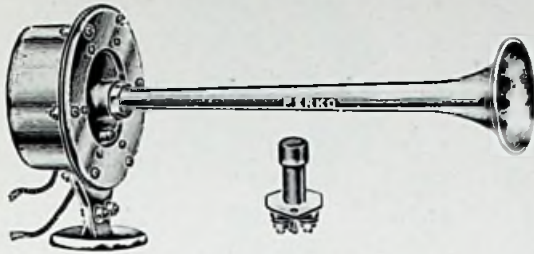


Fig. 576

A Horn manufactured for marine use. It has great volume and distinctive tone. It answers the demand for a high quality marine horn that can be heard at great distance and stand the arduous test of use on salt water.

Supplied complete with heavy duty push button and 16 feet of cable in two eight-foot lengths.

Volts	Each	Extreme Length Inches	Extreme Height Inches	Weight Pounds
6	\$40.00	19	8 3/4	8
12	40.50	19	8 3/4	8
32	41.00	19	8 3/4	8
110 D.C.	42.00	19	8 3/4	8

Packed in individual cartons.

## Heavy Duty Marine Siren

DIE CAST WHITE METAL — CHROMIUM PLATED  
6, 12 OR 32 VOLTS  
THE YACHTSMAN

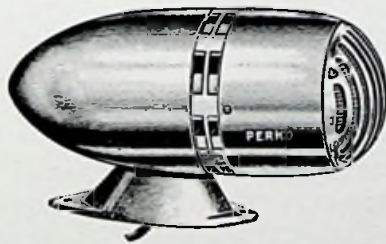


Fig. 1118

A siren that audibly commands the right of way. An ear piercing tone that can be heard for miles.

Has specially designed motor for economical operation, equipped with greased sealed ball bearings for smooth operation.

Furnished complete with long cable and heavy duty push button.

Volts	Each	Length Inches	Height Inches	Diam. Inches	Weight Pounds
6	\$58.00	13 1/2	7 1/2	5 3/4	10

For 12 or 32 Volts Add \$4.00 Each

## Marine Sirens

DIE CAST WHITE METAL — CHROMIUM PLATED  
6, 12 OR 32 VOLTS  
THE SEA-MITE



Fig. 1117

A siren of fine tone quality, dependability and performance.

Furnished complete with 10 ft. cable and heavy duty push button.

Volts	Each	Length Inches	Height Inches	Diam. Inches	Weight Pounds
6	\$21.00	7 3/4	5 3/4	4 3/8	5 1/4
12	23.50	7 3/4	5 3/4	4 3/8	5 1/2
32	25.00	7 3/4	5 3/4	4 3/8	5 1/2

## Combination Light and Siren

COMBINED  
FOR CLASS 1 MOTOR BOATS  
ALL BRASS — CHROMIUM PLATED  
6 OR 12 VOLTS  
THE SIRO-LITE

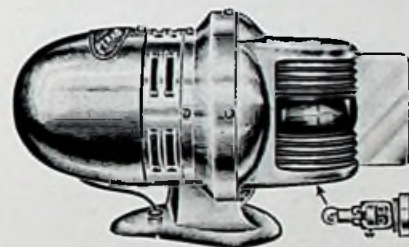


Fig. 597

An attractive 2-in-1 unit consisting of our Sea-Mite Siren and a regulation Class One Combination Light with two fresnel lenses, one red, one green.

The light portion contains our patented rebulbing feature illustrated above.

Furnished complete with 10 feet of cable and heavy duty push button.

Volts	Each	Overall Length Inches	Overall Height Inches	Size Lenses Inches	Weight Pounds
6	\$49.00	11 3/4	6 1/2	3 1/8 x 3 3/8	8 1/2
12	50.00	11 3/4	6 1/2	3 1/8 x 3 3/8	8 1/2



**Boat Cleats**

GALVANIZED IRON—CAST BRONZE  
OPEN BASE



Fig. 544

Length Inches	Mall. Iron Each	Cast Iron Each	Polished Bronze Each	Chromium Plated Each
3 1/2	\$ .20	\$ .16	\$ .72	\$1.10
4	.24	.17	.85	1.25
5	.30	.26	.95	1.45
6	.45	.33	1.30	1.75
8	.85	.65	1.95	2.50
10	1.55	1.25	2.85	4.15
12	2.10	1.75	4.20	5.50
14	3.40	2.25	8.20	9.80
18	5.55	3.90		

Cast Iron cleats supplied unless otherwise specified.

**Ship Cleats**

CAST IRON—HEAVY



Fig. 511

Length Inches	Galv. Each	Size of Base Inches	Holes for Diam. Bolts Inches	Weight Each Pounds
8	\$1.15	4 1/4 x 2 1/8	1/8	3
10	1.90	4 3/4 x 2 1/2	1/2	5 3/4
12	3.10	6 7/8 x 3	3/4	10
15	4.30	7 1/4 x 3 1/2	3/4	14
18	6.15	7 1/2 x 4	3/4	20 1/4
24	15.60	8 1/2 x 4 3/8	7/8	35
30	24.00	10 3/4 x 5 1/2	1	73
36	40.00	13 x 7 1/4	1 1/4	117

**Hollow Cleats**

CAST BRONZE—CLOSED ENDS



Fig. 572

Length Inches	Polished Bronze Each	Chromium Plated Each	Weight Pounds
4 1/2	\$1.85	\$2.35	1/2
5 1/2	1.95	2.45	5/8
6 1/2	2.10	2.65	3/4
8	2.50	3.25	1 1/4
10	4.50	5.50	2
12	6.00	7.50	3

**Bow Chocks**

GALVANIZED AND CAST BRONZE



Fig. 546

Length Inches	Galv. Iron Per Pair	Polished Bronze Per Pair	Chromium Plated Per Pair	Width Inches	For Diam. Rope Inches
3	\$ .45	\$1.70	\$2.60	5/8	1/4
4	.50	1.95	3.25	3/4	1/2
5	.65	2.60	4.45	7/8	3/4
6	1.30	4.10	6.40	1 1/8	7/8
8	2.05	5.85	8.40	1 1/4	1
10	3.10	9.90	14.00	1 3/4	1 1/4
12	6.50	16.50	20.00	3	1 1/2
15	13.00			3 1/2	1 3/4

**Improved Cleats**

CAST BRONZE—HEAVY DUTY

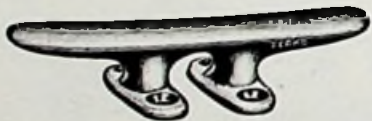


Fig. 384

Length Inches	Polished Bronze Each	Chromium Plated Each	For Rope Inches	Weight Pounds
4	\$1.25	\$1.90	1/4	1/2
5	1.60	2.25	3/8	3/4
6	2.10	2.75	1/2	1
8	3.90	4.65	3/4	1 3/4

**Straight Stern Chocks**

GALVANIZED AND CAST BRONZE



Fig. 119

Length Inches	Galv. Iron Each	Polished Bronze Each	Chromium Plated Each	Width Inches	For Diam. Rope Inches
4	\$ .25	\$1.10	\$1.75	7/8	1/2
5	.40	1.45	2.35	1	3/8
6	.65	2.10	3.20	1 1/4	3/4
8	1.30	3.25	4.55	1 3/8	1
10	1.55	5.15	7.10	1 7/8	1 1/4
12	3.25	8.75	11.00	2 3/8	1 3/8
15	7.10			3 3/8	1 3/4
18	9.75			3 1/2	2

**Fender Cleats**

DROP FORGED BRONZE



Fig. 583

Length Inches	Dull Finish Each	Polished Each	Chromium Plated Each	Size Base Inches	Weight Ounces
2 1/4	\$ .40	\$ .50	\$1.05	1 3/8 x 1	1 1/2





### Skene Bulwark Bow Chocks

CAST BRONZE



Fig. 751

Lgth. In.	Plain Bronze Per Pair	Pol. Bronze Per Pair	Chrom. Plated Per Pair	For Diam. Rope Up to Inches	Thick-ness of Rail Inches	Height Inches	Wt. Pair Lbs.
6	\$4.50	\$6.95	\$10.25	1	1 1/4	2 1/4	2 3/4
7	7.20	10.00	13.00	1 1/4	1 1/2	2 3/4	4 1/4

### Skene Bow Chocks

CAST BRONZE



Fig. 160

Size No.	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Inches	Width Inches	Opening Inches	Weight Pair Pounds
1	\$ 2.85	\$ 4.40	4 1/2	7/8	3/4	3/4
2	4.30	6.05	5 1/2	1 1/8	1	1 1/2
3	7.15	9.10	7 3/4	1 1/2	1 1/4	3 3/4
4	10.00	12.35	8 1/2	1 3/8	1 1/2	5
5	15.00	18.00	10 1/2	2	2	8

### Skene Stern Chocks

CAST BRONZE



Fig. 161

Size No.	Polished Bronze Each	Chromium Plated Each	Length Inches	Width Inches	Opening Inches	Weight Each Pounds
11	\$ 1.30	\$ 1.95	4	7/8	5/8	1/2
12	2.15	3.25	5 1/2	1 3/8	1	1
13	4.55	5.85	7	1 3/4	1 1/2	2
14	8.50	10.50	9	2 1/4	2	4

### Skene Bulwark Stern Chocks

CAST BRONZE



Fig. 752

Lgth. In.	Plain Bronze Each	Pol. Bronze Each	Chrom. Plated Each	For Diam. Rope Up to Inches	Thick-ness of Rail Inches	Height Inches	Wt. Each Lbs.
6	\$4.25	\$5.60	\$7.75	1 1/4	1 1/2	2 3/4	2

### Bulwark Stern Chocks

CAST BRONZE



Fig. 769

No.	Polished Bronze Each	Chromium Plated Each	Length Inches	Width Overall Inches	Height Inches	Size of Rope Inches
1	\$ 8.50	\$10.00	9 1/4	1 3/8	2 3/8	1 1/2
2	10.50	12.25	11 1/2	1 3/4	3	1 3/4

### Bulwark Bow Chocks

CAST BRONZE



Fig. 768

This pair of chocks is beveled to fit bow angles. The openings are sufficiently large for mooring ropes. Designed to be bolted through the bulwark and the deck.

No.	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Inches	Width Overall Inches	Height Inches	Size of Rope Inches
1	\$12.50	\$15.50	10	1	1 3/8	1
2	15.75	19.00	11 1/4	1 1/4	2 1/4	1 1/4
3	19.60	23.00	11 1/4	1 1/2	2 1/2	1 1/2

### Awning Cleats

GALVANIZED MALLEABLE IRON



Fig. 927

Length Inches	Per 100 Pieces	Weight Per 100 In Lbs.
4 1/2	\$ 6.50	4 3/8
6	9.50	8 3/4
8	14.50	13 3/4



**Comb. Bitt and Rope Deck Pipes**

CAST BRONZE



Fig. 431

A hollow one piece casting of minimum weight but maximum strength. An opening in one side of bitt to allow rope to be stored below deck but always ready for use.

No.	Polished Bronze Each	Chromium Plated Each	Size Base Inches	Height Inches	For Diam. Rope Inches
1	\$7.00	\$ 8.50	4½x4½	3½	¾
2	13.50	16.50	6 x6	5	1

**Rope Deck Pipes**

GALVANIZED CAST IRON OR CAST BRONZE



Fig. 741

No.	For Diam. Rope Inches	Inside Diam. Inches	Diam. Flange Inches	Height Above Deck Inches
1	¾ & 1	1¾	3¾	1¾
2	1¼	2½	4¾	2

No.	Galvanized Each	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
1	\$3.25	\$6.50	\$8.45	\$10.00
2	4.85	8.10	10.40	12.00

**Mooring Bitts**

CAST BRONZE

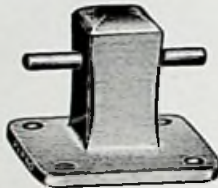


Fig. 608

No.	Size Base Inches	Height Inches	Weight Lbs.
1	3 x3	2½	7/8
2	4½x4½	3½	1½
3	6 x6	5	5¾
4	7 x7	6½	12

No.	Polished Bronze Each	Chromium Plated Each
1	\$4.70	\$ 6.25
2	6.25	7.80
3	12.50	15.60
4	18.20	21.45

**Lifting Handles**

CAST BRONZE



Fig. 186

Length Overall Inches	Height Inches	Width Base Inches	Size Opening Inches	Weight Oz.
6¾	2	1¼	3¾x1½	12

	Polished Bronze Each	Chromium Plated Each
	\$1.50	\$2.10

**Lifting Rings and Keel Plates**

CAST BRONZE



Fig. 415

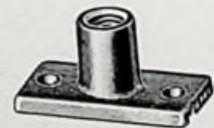


Fig. 446

Keel plate is fastened to inside of keel by bolts and connected to ring on deck by tie rod.

**Riding Bitts**

GALVANIZED CAST IRON



Fig. 926

Size No.	Galv. Each	Height Inches	Size Base Inches	Bored for Bolt Diam. Inches	Weight Pounds
00	\$2.60	3½	2½x2½	¼	2
0	3.15	4½	3 x3	⅜	4
01	4.60	5¾	3½x3½	⅝	7
1	5.10	6¾	5 x5	¾	9
1½	9.30	8¼	5½x5½	¾	12
2	12.75	10	5½x7½	¾	25

Polished Bronze Each	Chromium Plated Each	I. D. Eye Inches	Stock in Eye Inches	Threaded for Rod Inches	Size Flange Inches
\$4.00	\$5.00	1¾	½	¾	3x2¼

Fig. 415

Fig. 446

Each	Size Base Inches	Height Inches	Threaded for Rod Inches	Weight Oz.
\$1.25	3x1¾	1½	¾	7



## Bow Plates

CAST BRONZE

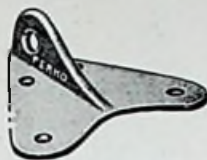


Fig. 181

	Polished Bronze Each	Chromium Plated Each	Size Plate Inches	Diam. Eye Inches	Weight Ounces
	\$1.75	\$2.75	4 1/8 x 4 3/8	3/4	10

## Combination Bow Plates

CAST BRONZE



Fig. 543

No.	Polished Bronze Each	Chromium Plated Each	Length Inches	Width Inches	Diam. Rope Inches
1	\$4.00	\$5.00	3 1/4	4 1/4	Up to 3/8
2	4.75	6.00	3 3/4	4 3/4	Up to 1

## Rings with Straps

GALVANIZED MALLEABLE IRON OR CAST BRONZE—HEAVY PATTERN



Fig. 1020

Sta. No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	Chrom. Plated Each	Size Ring Inches	Size Strap Inches
1	\$ .50	\$ .70	\$1.20	\$1.80	1/4 x 1 1/2	4 1/8 x 3/4
2	.60				1/2 x 1 3/4	4 1/8 x 3/4

## Fender Hooks

GALV. MALLEABLE IRON OR BRONZE



Fig. 547

No.	Galv.	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	For Rope Diam. Inches	Size Plate Inches
1	\$ .30	\$ .35	\$ .55	\$ .95	1/8	1 5/8 x 1 1/4
2	.60	.75	1.00	1.50	1/2	2 1/4 x 1 3/4

Note—Bronze fender hooks in both sizes are forged bronze, not cast.

## Ring on Plate

GALVANIZED DROP FORGED STEEL



Fig. 607

No.	Galvanized Each	Size Ring Inches	Size Plate Inches	Weight Per 100 in Lbs.
1	\$ .85	1 1/2 x 1 1/2	2 x 2 x 1/4	33
2	1.00	3/8 x 2	2 1/4 x 2 1/4 x 1/4	50

## Ring on Plate

CAST BRONZE—STREAMLINE PATTERN



Fig. 182

No.	Polished Bronze Each	Chromium Plated Each	Length Base Inches	Width Base Inches	Size of Ring Inches
1	\$1.25	\$1.90	2 3/4	1 1/2	3/4 x 1 1/4
2	1.50	2.20	3 1/4	1 7/8	1/4 x 1 1/2

## Ring and Deck Strap

CAST BRONZE



Fig. 183

Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Size Ring Inches	Length Strap Inches	Width Strap Inches
\$ .70	\$1.20	\$1.80	1/4 x 1 1/2	3 1/2	5/8

Straps only, see Fig. 882.

## Bow Eyes

CAST BRONZE



Fig. 303

No.	Metal in Eye Inches	Length of Straps Inches	Extreme Length Inches	Inside Diam. Eye Inches
1	3/8	1 1/4	3	3/4
2	1/2	2 3/8	3 3/8	1

No.	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
1	\$ .55	\$ .90	\$1.50
2	.75	1.15	1.75

## Ribbed Socket Rowlocks GALVANIZED—CAST IRON



Fig. 638

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$.55	\$.35	\$.25	1 3/4	1 1/8
1	.65	.45	.25	2	1 1/4
2	.90	.65	.40	2 1/4	1 3/4

## Davis Pattern Rowlocks GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 641

Size No.	Galv. Per Pair	Plain Bronze Per Pair	Polished Bronze Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$1.75			1 3/4	2
1	1.80	\$2.75	\$4.80	2	2
2	2.75			2 1/4	2 3/4

## Round Socket Rowlocks GALVANIZED IRON



Fig. 642

## 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	\$.90	\$.70	\$.30	1 3/4	1 1/8
1	.90	.70	.30	2	1 1/4
2	1.30	1.05	.45	2 1/4	1 3/4
3	1.95	1.55	.65	2 1/2	2 3/8

## GALVANIZED MALLEABLE IRON

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Inside Diam. Inches	Weight Per Pair Pounds
0	\$.90	\$.70	\$.30	2	1 1/8
1	.95	.80	.30	2 1/4	1 1/4
2	1.30	1.00	.45	2 1/2	1 1/2

## GALVANIZED CAST IRON

1	.70	.50	.25	2 1/4	1 1/4
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## Boston Socket Rowlocks GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 545

## North River Rowlocks GALVANIZED MALLEABLE IRON



Fig. 643



Fig. 644

Fig.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
643	\$1.00	\$.80	\$.30	2 1/8	1 1/2
644	1.25	.80	.55	2 1/8	1 1/2

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0 Galv.	\$.90	\$.70	\$.30	1 3/4	3/8
1 Galv.	.90	.70	.30	2	1
0 Pl. Bronze	1.80	1.30	.60	1 3/4	3/8
1 Pl. Bronze	1.80	1.30	.60	2	1
0 Pol. Bronze	3.10	2.20	1.10	1 3/4	3/8
1 Pol. Bronze	3.10	2.20	1.10	2	1

With Chain add \$ .30 per pair to above prices.



## Boston Side Plate Rowlocks

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 646

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
1 Galv.	\$1.50	\$ .70	\$ .90	2	1½
0 Pl. Bronze	2.40	1.25	1.20	1¾	1¼
1 Pl. Bronze	2.45	1.30	1.20	2	1½
0 Pol. Bronze	3.90	1.95	2.15	1¾	1¼
1 Pol. Bronze	4.00	2.20	2.20	2	1½

With Chain add \$.30 per pair to above prices.

## Side Plate Rowlocks

GALVANIZED MALLEABLE IRON OR BRONZE

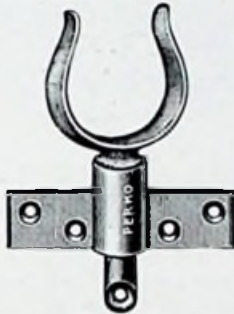


Fig. 645

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$1.15	\$ .70	\$ .55	1¾	1¾
1	1.15	.70	.55	2	1¾
PLAIN BRONZE					
1	2.50	1.50	1.15	2	1¾
POLISHED BRONZE					
1	3.80	2.15	1.75	2	1¾

## Oar Leathers and Buttons

RUSSET LEATHER

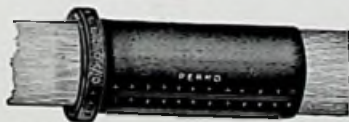


Fig. 233

A high grade russet leather and button furnished complete with brass nails for attaching to oar.

	Per Pair
Complete, Leathers and Buttons.....	\$1.30
Leathers Only—7x6½ Inches.....	.90
Buttons Only—½x13 Inches.....	.45

## Copper Oar and Paddle Tips



Fig. 794



Fig. 788

Made of soft sheet copper, will fit any oar and paddle.

Fig. 794 Oar Tips—per Pair.....	\$ .40
Fig. 788 Paddle Tips—Each.....	.25

## Outboard Motor Transom Plates

CAST BRONZE—PLAIN



Fig. 814

Furnished complete with tanned leather inserts.

Plain Per Pair	Inside Diam. Inches	Outside Diam. Inches	Extreme Thickness Inches	Weight Per Pair Ounces
\$1.50	1¾	3	1/16	6

## Dock Rollers

FOR CANOES AND BOATS

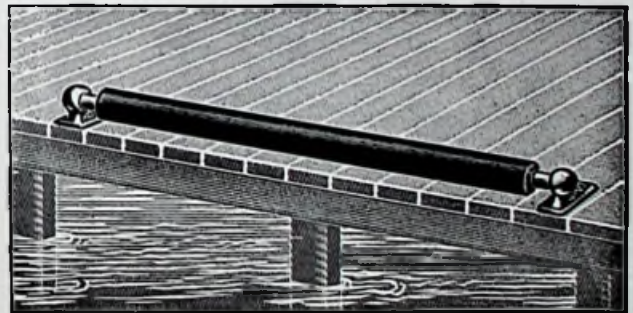


Fig. 400

An effective and simple means of rolling a canoe or boat from the water to the dock without damage. End posts are solid cast bronze.

HARD RUBBER ROLLER ON BRASS AXLE

Each	Diam. Shaft Inches	Diam. Rubber Inches	Height Inches	Length Inches
\$8.00	¾	1½	2	24

### Upright Flag Pole Socket

ROUND BASE  
CAST BRONZE



Fig. 220

Inside Diam. Inches	Polished Bronze Each	Chromium Plated Each	Diam. Base Inches	Height Inches	Weight Ounces
3/4	\$1.50	\$2.10	2 1/8	1 3/4	7
1	2.10	2.70	2 1/2	2	8 1/2
1 1/4	2.60	3.20	2 3/4	2 1/8	11
1 1/2	3.50	4.20	3	3	16



Fig. 221

### Non Skid Step Plates

WITH MOULDED RUBBER STEP PADS  
CAST BRONZE—CHROMIUM PLATED



Fig. 1043

No.	Complete Each	Frames Only Each	Rubber Pads Only Each	Extreme Dimensions Inches	Weight Pounds
1	\$5.00	\$3.75	\$1.25	8 1/2 x 3 1/2	3/4
2	6.50	5.00	1.50	11 1/2 x 5 1/2	1 1/4

### Flush Flag Pole Socket

GALVANIZED CAST IRON—CAST BRONZE



Fig. 218

Inside Diam. Inches	Galv. Each	Pol. Bronze Each	Chrom. Plated Each	Diam. Flange Inches	Depth Socket Inches	Wt. Ozs.
3/4	\$ .45	\$1.10	\$1.65	2	1 1/2	4 1/2
1	.50	1.25	1.85	2 3/8	1 3/4	6
1 1/4	.65	1.65	2.20	2 5/8	2	10
1 1/2	1.00	2.25	2.95	3 1/8	2 3/8	16



Fig. 219

### New Rubber Step Plates

HEAVY CORRUGATED RUBBER WITH MONEL METAL FRAME AND MONEL METAL SCREWS



Fig. 1044

A good item for use on runabouts, cruisers, sailboats, etc.

No.	Complete Each	Extreme Dimensions Inches	Thickness Inches	Pounds Weight
3	\$3.25	10x4	1/4	3/4
4	4.50	13x5	1/4	1

### Upright Flag Pole Socket

GALVANIZED CAST IRON  
SQUARE BASE



Fig. 570

Inside Diam. Inches	Galv. Each	Height Inches	Size Base Inches	Weight Ounces
3/4	\$ .50	1 3/4	2 x 2	5 1/2
1	.65	2 1/4	2 1/4 x 2 1/4	11
1 1/4	1.05	2 3/4	2 3/4 x 2 3/4	13
1 1/2	1.50	3 1/2	3 x 4	24



Fig. 571

### Special Shapes Rubber Step Plates and Pads

HEAVY CORRUGATED RUBBER WITH MONEL METAL FRAME AND MONEL METAL SCREWS



Fig. 1057

We can supply the above in almost any practical shape or size, for use as step plates, stair cushions, deck pads, transom plates, etc.

Send drawing or template. State quantity. Price on application.



## Boat Hooks

GALVANIZED MALLEABLE IRON AND BRONZE

SHARP POINTS



Fig. 223

No. Size	Galvanized Each	Polished Bronze Each	Chromium Plated Each	For Diam. Pole Inches	Extreme Length Inches
0	\$ .70	\$1.85	\$3.25	1	7 1/4
1	.85	2.05	3.45	1 1/4	8 1/4
2	1.15	2.60	4.05	1 1/2	9 3/8
3	1.50			2	9 3/4

BALL POINTS

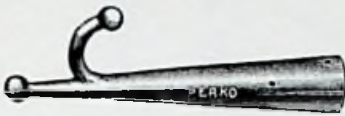


Fig. 224

Size No.	Galvanized Each	Polished Bronze Each	Chromium Plated Each	For Diam. Pole Inches	Extreme Length Inches
3 1/2	\$ .80	\$2.00	\$3.40	1	7 3/8
4	.90	2.15	3.60	1 1/4	8 1/4
5	1.15	2.80	4.25	1 1/2	9 3/8
6	1.75			2	9 1/2

## Boat Hook Holders

SPRING BRASS

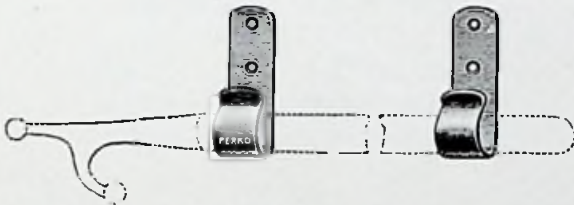


Fig. 490

Made of spring brass they will accommodate poles up to 1 1/2 inch in diameter, and hold them firmly in place.

Polished Brass Each	Chromium Plated Each	Length Inches	Width Inches	Weight Ounces
\$ .70	\$1.00	3 1/2	1	1 1/2

## Sword Fish Darts

PLAIN CAST BRONZE



Fig. 805

Each	Length Inches	Weight Per 100 In Pounds
\$ .60	5	31

## Letters and Figures

CAST BRONZE

REGULAR PATTERN



Fig. 348

Height inches	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Weight Per 100 in Lbs.
2	\$ .30	\$ .55	\$.80	6 1/2
3	.32	.58	.85	24 1/4
4	.80	1.30	1.70	36

GOTHIC PATTERN



Fig. 313

Height inches	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Weight Per 100 in Lbs.
3	\$ .32	\$ .58	\$.85	18

## Ring Buoy Holders

CAST BRONZE



Fig. 1017

The natural spring tension of the hook holds the buoy fast but ready for instant use.

Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Width Mounting Plate Inches	Height Overall Inches	Weight Pounds
\$1.10	\$1.85	\$2.50	3	4 1/2	1/2

## Dart Shank

IRON SHANK—CAST BRONZE SOCKET

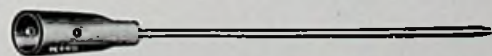


Fig. 655

Length overall, 24 inches; Weight, 1 1/4 pounds.  
Each .....\$2.25



### Windshield Brackets

CAST BRONZE—V TYPE

Sturdy and attractive fittings for runabouts and out-board motor boats.

The end brackets have beveled bases that will fit the crown of most decks, all brackets are grooved for 1/4 inch glass.

WITH SIDE HANDLES



Fig. 930

Angle from vertical 23 degrees.

Polished Bronze Per Set	Chromium Plated Per Set	Height Center Bracket Inches	Height End Brackets Inches	Length Side Base Inches	Weight Per Set Pounds
\$17.50	\$22.50	8 1/4	5 5/8	9	5

Price does not include glass or rubber insulation. Height is measured vertically.

WITHOUT SIDE HANDLES

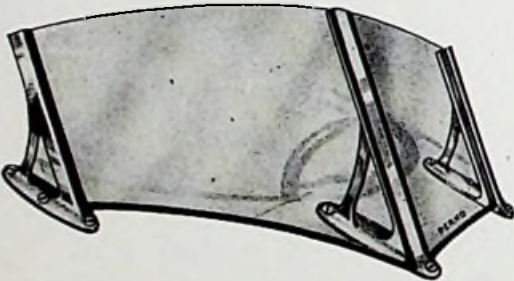


Fig. 665

Angle from vertical 35 degrees.

Polished Bronze Per Set	Chromium Plated Per Set	Height Center Bracket Inches	Height End Brackets Inches	Length Center Base Inches	Weight Per Set Pounds
\$17.50	\$22.50	9 1/2	7 1/2	7 3/8	4 1/2

Price does not include glass or rubber insulation. Height is measured vertically.

### Rubber Insulation for Windshields



Fig. 667



Fig. 668

Live moulded rubber for glass 1/4 inch thick.

Fig. 667—For bottom of windshields—per foot.....\$ .30

Fig. 668—For windshield brackets—per foot..... .25

Fig. 667—Supplied only in 11 ft. lengths.

Fig. 668—Supplied in lengths of 20 feet or longer.

### Windshield Cleaners

ELECTRIC—6 AND 12 VOLTS—CHROME FINISH FOR SWING OUT WINDSHIELDS INSIDE MOUNTING

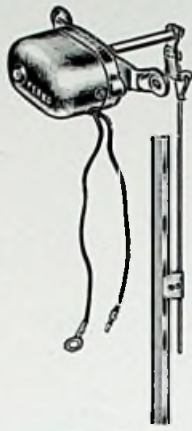


Fig. 395

Motor cover is brass. Shaft and arm are steel, cadmium plated. Blade is adjustable to various lengths.

Furnished with drilling template, rubber insulating washers, connecting wires and switch.

6 Volt Each	12 Volt Each	Extreme Width Inches	Length Blade Inches	Length Shaft Inches	Weight Pounds
\$9.65	\$11.00	6	11	2 1/2	1 1/4

Supplied for outside mounting to order. Prices same as above.

### Windshield Adjusters

CAST BRONZE



Fig. 82

No.	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Overall Inches	Length Adjustment Inches
1	\$7.75	\$10.50	6 1/2	5
2	9.00	11.75	9	7
3	13.00	16.00	12	9 1/2

Note—When ordering 1/2 pair, specify whether for right or left side.

### Aluminum Racing Fin

CAST SILICON ALUMINUM



Fig. 189

Each	Length Overall Inches	Depth Blade Inches	Size Flange Inches	Weight Lbs.
\$4.50	12 3/4	5	2 1/2 x 10	1 1/3



## Stanchion Posts

GALVANIZED CAST IRON OR BRONZE



Fig. 614—For End  
Fig. 615—For Center



Fig. 616—For Corner  
Fig. 617—For Bow

Size No.	Galv. Each	Polished Bronze Each	Chromium Plated Each	Extreme Height of Post Inches	Bored For
1	\$ .60	\$1.10	\$2.10	2	3/8" Rod
1 1/2	.60	1.10	2.10	2	1/4" Pipe
2	.75	1.30	2.30	2 1/2	5/8" Rod
2 1/2	.75	1.30	2.30	2 1/2	1/4" Pipe
3	.90	1.50	2.50	3	5/8" Rod
3 1/2	.90	1.50	2.50	3	3/8" Pipe
5	1.45	3.00	4.00	4	3/4" Rod
5 1/2	1.45	3.00	4.00	4	1/2" Pipe

## Grab Rails

CAST BRONZE POSTS—BRASS TUBING



Fig. 379

Length Between Posts Inches	Diameter of Tubing			
	1 Inch		1 1/4 Inch	
	Polished Bronze Each	Chromium Plated Each	Polished Bronze Each	Chromium Plated Each
6	\$5.25	\$7.25	\$5.75	\$7.75
8	5.50	7.50	6.00	8.00
12	6.00	8.00	6.50	8.50
18	6.75	8.75	7.25	9.25
24	7.50	9.50	8.00	10.00
30	8.25	10.25	8.75	10.75
36	9.00	11.00	9.50	11.50
42	9.75	11.75	10.25	12.25

Can be furnished with middle post and in special lengths if desired. Price on application.

Posts only, see Fig. 380.

## Rail Hinge

CAST BRONZE



Fig. 122

No.	Polished Bronze Each	Chromium Plated Each	Size Rail Inches	Length Inches	Weight Pounds
1	\$6.25	\$7.75	1 1/2 x 2 1/2	5	1 7/8
2	6.75	8.25	1 3/8 x 3	3 3/8	1 3/4

## Hand Rail Sockets

CAST BRONZE



Fig. 215

Made for end or center of rail. 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	3/8 x 3 1/2	5
1 1/4	2	3/4 x 3 3/4	9

For Rail Diam. Inches	Polished Bronze Center Each	Polished Bronze End Each	Chromium Plated Center Each	Chromium Plated End Each
1	\$1.75	\$1.75	\$2.75	\$2.75
1 1/4	2.60	2.60	3.60	3.60

Please specify center or end and size when ordering.

## Grab Rail Posts

CAST BRONZE—HOLLOW



Fig. 380

No.	Diam. Base Inches	Height Overall Inches	Diam. Hole Inches	Weight Each Pounds
1	2 1/2	3 3/8	1 or 1 1/8	3/8
2	3	3 1/2	1 1/4	1 3/4

No.	Polished Bronze Each	Chromium Plated Each
1	\$2.25	\$3.25
2	\$5.00	6.00

Furnished for center mounting when desired, please specify.

## Flush Rail Lock

CAST BRONZE



Fig. 123

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

No.	Polished Bronze Per Set	Chromium Plated Per Set	Size Rail Inches	Length Inches	Weight Pounds
1	\$6.75	\$8.25	1 1/2 x 2 1/2	5	1 7/8
2	7.25	8.75	1 3/8 x 3	3 3/8	1 3/4

## Rope Swimming Ladders

WITH ROUND WOOD RUNGS



Made of  $\frac{1}{2}$  inch best grade rope with oil treated hickory rungs. Rungs are  $1\frac{1}{4}$  x 14 inches and spaced 12 inches apart.

Furnished complete with lanyards 6 feet long for making fast on board and thimbles with light lanyard on lower end for lashing down.

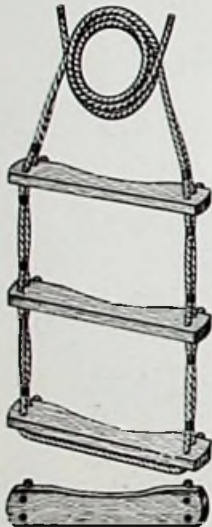
Ladders	Each
2 rung	\$5.25
3 rung	6.25
4 rung	7.75
5 rung	9.25
6 rung	10.75

Additional rungs add \$1.60 each.

Fig. 991

## Rope Swimming Ladders

WITH FLAT WOOD STEPS CUT OUT FOR TOES AND HAND HOLD.



Steps are  $\frac{3}{4}$  x  $3\frac{3}{4}$  x 20 inches and spaced 12 inches apart.

Made of  $\frac{1}{2}$  inch best grade rope with ash steps, varnished.

Furnished complete with lanyards 6 feet long for making fast on board.

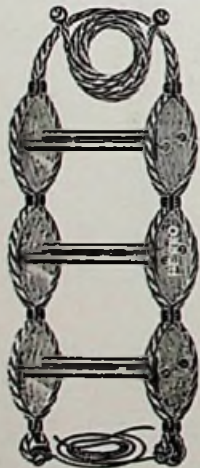
Ladders	Each
2 step	\$8.25
3 step	10.50
4 step	12.75
5 step	15.00
6 step	17.25

Additional steps add \$2.20 each.

Fig. 992

## Rope Boarding Ladders

WITH OVAL SIDES AND DOUBLE RUNGS



Each rung is  $1\frac{1}{4}$  x 14 inches and steps are spaced 12 inches apart.

Made of first grade  $\frac{1}{2}$  rope. Selected ash sides and steps.

Furnished complete with lanyards 6 feet long for making fast on board, and thimbles with light lanyard on lower end for lashing down.

Ladders	Each
2 step	\$15.00
3 step	20.00
4 step	25.00
5 step	30.00
6 step	35.00

Additional steps add \$5.50 each.

Fig. 993

## Ladder Locks

FOR COMPANIONWAY OR UPPER BERTH  
CAST BRONZE

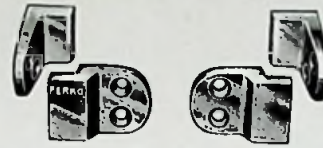


Fig. 669

Height Inches	Length Socket Inches	Length Bracket Inches	Weight Ounces Per Set
$1\frac{1}{4}$	1	$1\frac{1}{4}$	12
Plain Bronze Per Set	Polished Per Set	Chromium Plated Per Set	
\$2.25	\$3.75	\$6.00	

A set consists of four pieces illustrated

## Ladder Hooks

CAST BRONZE



Fig. 670

Extreme Length Inches	Length Brace Inches	Size Plate Inches	Weight Per Set Pounds
12	4	$2\frac{1}{2}$ x $3\frac{3}{8}$	4
Complete		Plates Only	
Polished Bronze Per Set	Chromium Plated Per Set	Polished Bronze Per Pair	Chromium Plated Per Pair
\$11.50	\$15.50	\$3.50	\$5.00

## Ladder Hooks

CAST BRONZE  
WITH FLUSH PLATES FOR DECK

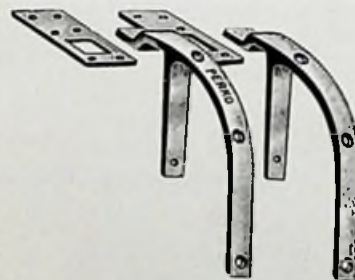


Fig. 994

Extreme Length Inches	Length Brace Inches	Size of Plate Inches	Weight Per Set Pounds
10	$3\frac{3}{4}$	$3\frac{1}{4}$ x 2	4
Complete		Plates Only	
Polished Bronze Per Set	Chromium Plated Per Set	Polished Bronze Per Pair	Chromium Plated Per Pair
\$11.25	\$15.25	\$3.00	\$4.25



## Outrigger Pole Sockets

POLISHED BRASS

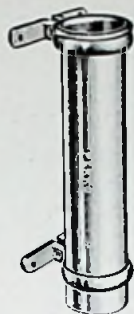


Fig. 1100

A well made heavily constructed socket of heavy brass with cast bronze brackets for mounting on rail or deck house.

No.	Each	Inside Diam. Inches	Extreme Length Inches	Width Bracket Inches	Weight Pounds
1	\$ 9.00	2	10¼	3½	3
2	10.00	2¾	12	4	3¾

## Swivel Outrigger Pole Holders

EXTRA LONG SOCKET—REINFORCED  
STRONG HEAVY BRONZE CASTINGS



Fig. 414

Pole can be set at any desired angle, has swivel base plate and hinged socket.

Cast bronze fittings are good and heavy to prevent breakage, socket is extra long and reinforced on the outer end to prevent splitting.

Per Pair	Inside Diam. Socket Inches	Length Socket Inches	Diam. Plate Inches	Weight Pair Pounds
\$23.00	1¾	10	3	6¾

## Folding Stools

CAST BRONZE SUPPORTS

An ideal fitting for the average cruiser, appreciated by boat owners who have spent hours at the wheel.

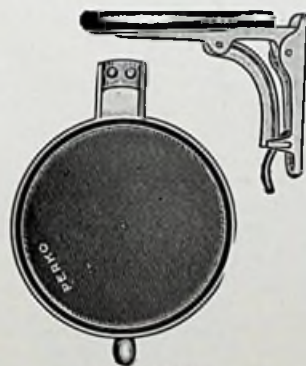


Fig. 1009

No.	Each	Diam. Seat Inches	Offset Inches
1	\$11.00	11	14
2	13.50	13	16

## Folding Boarding Ladder

MAHOGANY WITH CAST BRONZE FITTINGS  
OPENS FROM 3 STEPS TO 6 STEPS

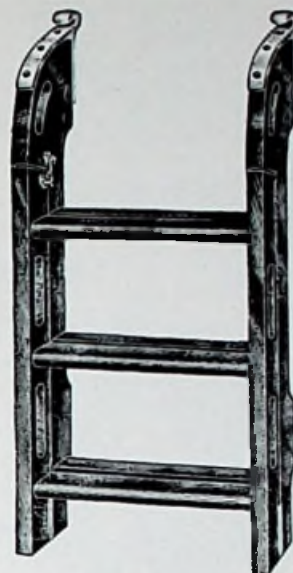


Fig. 558

Made of high quality mahogany, varnished. Supplied complete with plates for hanging and polished bronze or chromium plated fittings.

With Polished Bronze Fittings Each	With Chromium Plated Fittings Each	Overall Length Open Inches	Overall Length Closed Inches	Overall Width Inches	Weight Pounds
\$40.00	\$48.00	51	30	15	12½

## Swivel Fishing Chair

MAHOGANY WITH CAST BRONZE FITTINGS  
DEMOUNTABLE—WITH COVER FOR DECK PLATE

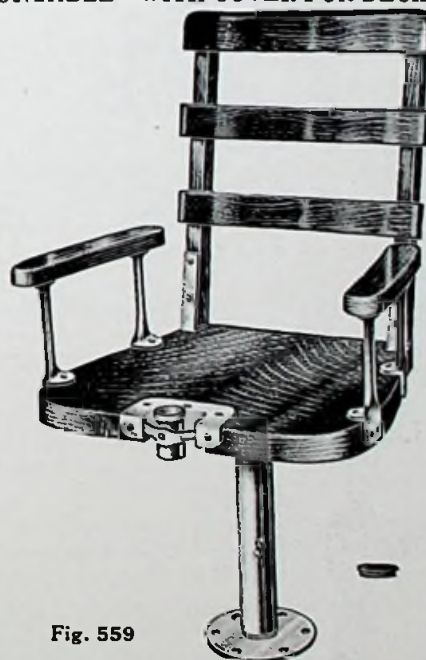


Fig. 559

Complete with universal fishing rod socket.

With Polished Bronze Fittings Each	With Chromium Plated Fittings Each	Height of Seat Inches	Dimensions of Seat Inches	Diam. Deck Flange Inches	Weight Pounds
\$90.00	\$100.00	18	19x22	7	45



### Mortise Locks

CAST BRONZE—POLISHED



Fig. 944

Cast bronze case with reversible latch bolt. Furnished with polished striking plate and one brass bit key.

No.	Each	Case Inches	Facing Inches	Backset Inches	Splndle Hub Inches
1	\$4.25	2 3/4 x 2 x 1/2	4 1/8 x 1 1/16	1 1/2	5/8 x 3/16
2	6.00	3 1/2 x 2 3/4 x 3/16	5 x 3/4	2 1/4	5/8 x 3/16

### Rim Locks

CAST BRONZE—POLISHED

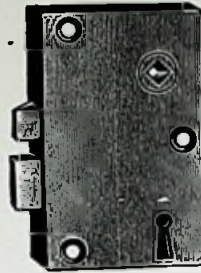


Fig. 1045

All bronze, with reversible latch bolt for right and left hand doors.

Furnished with polished bronze nosings and one brass bit key.

No.	Each	Size Case Inches	Splndle Inches	Backset Inches
1	\$5.50	2 1/2 x 2 x 1/2	5/8	1 1/8
2	6.00	3 3/4 x 2 1/2 x 5/8	5/8	1 1/2

### Mortise Lock Sets

CAST BRONZE—POLISHED

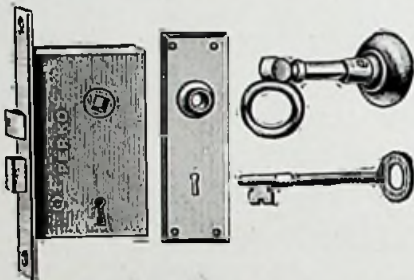


Fig. 945

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.....	\$ 9.00
Size No. 2, Price Per Set.....	10.50

#### SET B

With Shield Escutcheons, Round Knob and Drop Handle

Size No. 1, Price Per Set.....	\$ 7.75
Size No. 2, Price Per Set.....	9.50

#### SET C

With Shield Escutcheons and Two Round Knobs

Size No. 1, Price Per Set.....	\$8.00
Size No. 2, Price Per Set.....	10.00

#### SET D

With Combination Escutcheons and Two Round Knobs

Size No. 1, Price Per Set.....	\$ 9.25
Size No. 2, Price Per Set.....	11.00

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	1 3/4	1 1/2

All of the above sets can be furnished with oval knobs if desired—Price on application.

Extra keys for above locks furnished to order.

### Rim Lock Sets

CAST BRONZE—POLISHED

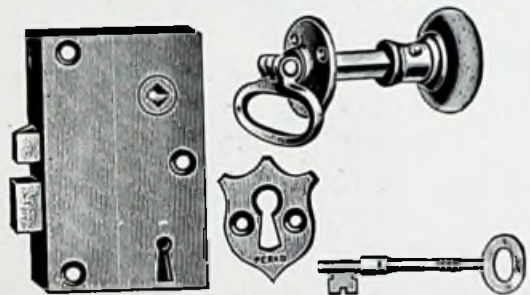


Fig. 1046

The following shows Rim Lock Fig. 1045, Numbers 1 and 2 made up in various sets.

#### SET A

With Combination Escutcheons, Round Knob and Drop Handle

Size No. 1, Price Per Set.....	\$ 9.50
Size No. 2, Price Per Set.....	10.25

#### SET B

With Shield Escutcheons, Round Knob and Drop Handle

Size No. 1, Price Per Set.....	\$ 9.00
Size No. 2, Price Per Set.....	9.50

#### SET C

With Shield Escutcheons and Two Round Knobs

Size No. 1, Price Per Set.....	\$ 9.25
Size No. 2, Price Per Set.....	9.75

#### SET D

With Combination Escutcheons and Two Round Knobs

Size No. 1, Price Per Set.....	\$10.00
Size No. 2, Price Per Set.....	10.50

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	1 3/4	1 1/2

All of the above sets can be furnished with oval knobs if desired—Price on application.

Extra keys for above locks furnished to order.



## Brass Tubular Lock Sets

FOR SMALL CABIN DOORS  
DULL FINISH OR CHROMIUM PLATED

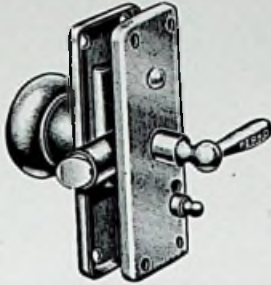


Fig. 567

Dull Finish Each	Chromium Plated Each	For Thickness Doors Inches	Size Escutcheon Inches	Size Knob Inches	Back-set Inches
\$2.50	\$4.00	7/8 to 1 3/8	4 3/8 x 1 3/8	1 3/4	1 3/8

## Door Knobs

CAST BRASS—POLISHED

Solid cast brass round knobs and rosettes. Wrought brass spindles.

Two Round Knobs



Fig. 1048

Diam. Knob Inches  
1 3/4

Per Set  
\$3.75

Size Spindle Inches  
5/16

Round Knob and Drop Handle

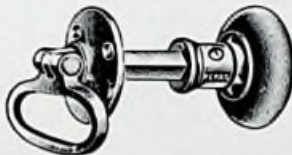


Fig. 1049

Diam. Knob Inches  
1 3/4

Per Set  
\$3.50

Size Spindle Inches  
5/16

Knobs for Rim Locks have One Rosette  
Knobs for Mortise Locks have Two Rosettes

## Drawer Knobs

BRASS—FOR DRAWERS UP TO 1 1/8" THICK

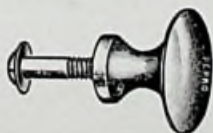


Fig. 925

No.	Polished Brass Per Dozen	Chromium Plated Per Dozen	Diameter Inches	Weight Per Dozen Ounces
1	\$3.25	\$4.50	1	12
2	5.50	6.75	1 1/4	18

## Cupboard Catches

CAST BRONZE—EMERY FINISH

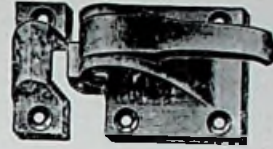


Fig. 1102

Furnished complete with screws.

No.	Each	Without Strike Inches	Weight Per Dozen Pounds
1	\$1.25	1 1/2 x 1 1/2	1 1/2
2	1.25	1 1/2 x 1 1/2	1 3/4

No. 2 has 3/8 inch offset.

## Cupboard Turns

WROUGHT BRONZE—DULL FINISH



Fig. 1105

Furnished complete with screws.

No.	Each	Without Strike Inches	Weight Per Dozen Pounds
1	\$ .75	1 7/8 x 1 1/8	2
2	.80	2 1/4 x 1 1/2	3

## Cupboard Turns

CAST BRASS—POLISHED



Fig. 949

No.	Each	Without Strike Inches	Weight Per Dozen Pounds
1	\$1.35	1 3/4 x 1 1/8	2 1/2
2	1.45	2 1/8 x 1 1/2	3 3/4

## Cupboard Catches

CAST BRASS—POLISHED



Fig. 950

No.	Each	Without Strike Inches
1	\$1.00	1 1/2 x 1
2	1.10	1 3/8 x 1 1/4
3	1.20	1 3/8 x 2

## Flush Ring Catch

CAST BRASS—POLISHED

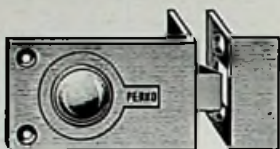


Fig. 1051

Size  
Inches  
1 5/8 x 1 1/4

Each  
\$1.10

Weight  
Ounces  
1 1/2

## Flush Ring Pulls

CAST BRASS—POLISHED



Fig. 841

No.  
1  
2  
3  
4

Each  
\$ .70  
.80  
.95  
1.40

Size Plate  
Inches  
1 1/4 x 1 1/2  
1 1/2 x 2  
1 7/8 x 2 1/2  
2 1/4 x 2 3/4

Weight  
Ounces  
1  
1 1/2  
2 3/4  
5

## Cabinet Latches

CAST BRASS—POLISHED



Fig. 1064

With flush striking plate and brass pin, spring closing. Made either right or left hand.

Polished  
Brass  
Each  
\$ .60

Chromium  
Plated  
Each  
\$ .95

Length  
Overall  
Inches  
2 1/2

Length  
Lever  
Inches  
2

## Refrigerator Fasteners

CAST BRASS—POLISHED



Fig. 1063

Made either right or left hand with flush striking plate. Holds doors without strain on the rivet. Has brass pin.

Illustration shows right hand.

No.	Each	Length Overall Inches	Size Lever Inches
1	\$1.50	5	4

## Barrel Bolts

CAST BRASS—POLISHED



Fig. 947

No.  
1  
2  
3

Each  
\$.95  
1.10  
1.40

Length  
Rod  
Inches  
2 1/4  
3  
4

Size Base  
Without  
Strike  
Inches  
2 x 1  
3 x 1 1/8  
3 1/2 x 1 1/4

Weight  
Per Dozen  
Pounds  
1 1/2  
2  
3

## Flush Bolts

CAST BRONZE—POLISHED

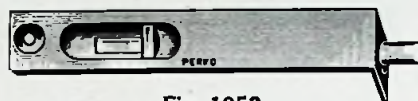


Fig. 1052

No.  
1  
2

Each  
\$1.00  
1.10

Size  
Inches  
5/8 x 2 1/2  
3/8 x 3

Weight  
Ounces  
1 1/2  
2

## Ship Bolts

CAST BRONZE

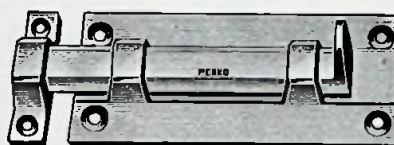


Fig. 1053

No.  
1  
2  
3

Each  
\$.90  
1.10  
1.90

Size  
Without  
Strike  
Inches  
2 5/8 x 1 1/8  
3 5/8 x 1 3/8  
4 3/4 x 1 5/8

## Square Neck Bolts

CAST BRONZE

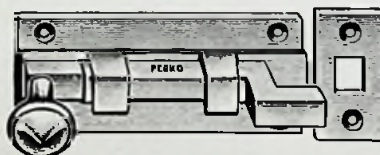


Fig. 1054

No.  
1  
2

Each  
\$1.30  
1.50

Size  
Inches  
3 x 1 1/4  
4 x 1 1/4

## Window Bolts

CAST BRONZE—POLISHED  
SPRING TYPE

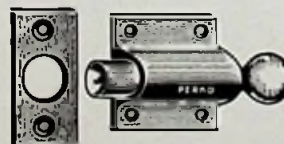


Fig. 1055

Base  
Inches  
1 1/8 x 1 1/4

Each  
\$1.10



### Boston Hinged Hasps

GALVANIZED MALLEABLE IRON OR BRONZE

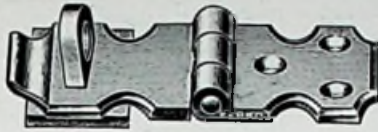


Fig. 954

Length Opened Inches	Galv. Each	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
4	\$ .70	\$1.30	\$1.90	\$2.60
6	1.00	1.85	2.90	3.80

### Security Hinged Hasps

CAST BRONZE

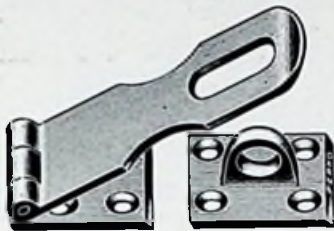


Fig. 955

Length Closed Inches	Polished Bronze Each	Chromium Plated Each	Width Inches	Weight Ounces
3	\$1.05	\$1.60	1	2½
3¾	1.25	1.85	1½	4½

### Cabin Door Hooks

CAST BRASS—POLISHED



Fig. 956

Length Hook Inches	Each	Weight Ounces	Length Hook Inches	Each	Weight Ounces
1½	\$ .60	1	3½	\$ .95	2½
2	.65	1½	4	1.00	3
2½	.70	1¾	5	1.10	3½
3	.80	2	6	1.30	4

### Cabin Door Hooks

DOUBLE JOINTED  
CAST BRASS—POLISHED

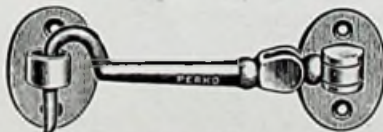


Fig. 957

Length Hook Inches	Each	Length Hook Inches	Each
2	\$1.20	4	\$1.75
2½	1.25	5	2.20
3	1.35	6	2.30

### Safety Hasps

EXTRA HEAVY CAST BRONZE—POLISHED



Fig. 1060

Each	Length Inches	Width Inches
\$2.50	4½	1½

### Anti-Rattle Door Fastener

CAST BRONZE—POLISHED

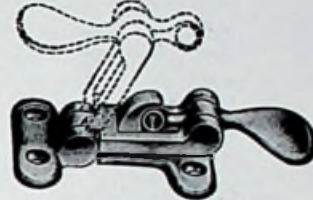


Fig. 1108

Has ¼ inch hole in lever for padlock.  
Size Base 3x2  
Each \$1.65

Weight Ounces 6

### Door Holders

SIDE PATTERN  
CAST BRONZE—DULL FINISH

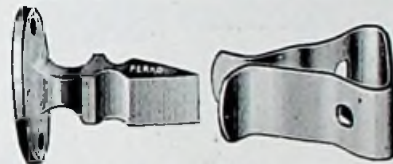


Fig. 1065

Per Set	Base of Holder Inches	Base of Clip Inches	Projection Inches
\$1.35	1¾x¾	2½x¾	2

FLOOR PATTERN



Fig. 1066

Per Set	Height Holder Inches	Base of Holder Inches	Base of Clip Inches
\$1.40	1¾	2½x1¾	2½x¾

### Cupboard Door Holder

BRASS PLATED



Fig. 1178

A useful little friction catch for use on cabinets, closets, cupboards and all small doors, size overall—1½x1¾ inches.  
Per Dozen \$1.00



### Strap Hinges

GALVANIZED MALLEABLE IRON OR BRONZE BRASS PINS



Fig. 120

Length Opened Inches	Galvanized Per Pair	Plain Bronze Per Pair	Polished Bronze Per Pair	Chrom. Plated Per Pair	Weight Per Pair Pounds
4	\$ .70	\$1.30	\$1.95	\$3.20	$\frac{1}{8}$
6	1.15	1.75	2.40	3.65	$\frac{5}{8}$
8	1.65	2.15	3.05	4.50	$\frac{7}{8}$
10	2.00	3.00	4.00	5.75	$1\frac{1}{8}$
12	3.00	4.00	5.50	7.25	$1\frac{3}{8}$

### Port Hinges

GALVANIZED MALLEABLE IRON OR BRONZE BRASS PINS

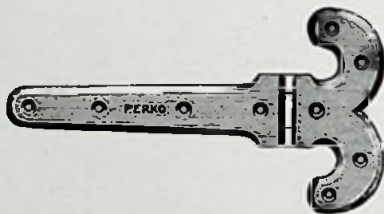


Fig. 109

Length Opened Inches	Galvanized Per Pair	Plain Bronze Per Pair	Polished Bronze Per Pair	Chrom. Plated Per Pair	Weight Per Pair Pounds
4	\$1.15	\$1.85	\$2.75	\$4.00	$\frac{1}{2}$
6	1.45	2.60	3.80	5.25	$\frac{3}{8}$
8	2.80	4.25	5.50	7.50	$1\frac{1}{2}$
10	4.00	5.50	7.50	9.50	2
12	5.30	9.75	12.00	14.50	$2\frac{5}{8}$

### Cuddy Door Hinges

CAST BRASS



Fig. 951

Length Opened Inches	Plain Brass Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
3	\$1.10	\$1.90	\$2.75
$3\frac{1}{2}$	1.15	2.10	3.00
4	1.30	2.30	3.50
5	1.55	3.10	4.50

### Fast Pin Butt Hinges

CAST BRASS—EMERY FINISH BRASS PINS



Fig. 952

Size Open Inches	Per Doz. Pairs	Size Open Inches	Per Doz. Pairs
$1\frac{1}{2} \times 1\frac{1}{4}$	\$8.40	$2\frac{1}{2} \times 2\frac{1}{2}$	\$19.80
$1\frac{1}{2} \times 1\frac{1}{2}$	9.00	3 x 2	22.20
2 x $1\frac{1}{4}$	10.20	3 x $2\frac{1}{2}$	25.20
2 x $1\frac{1}{2}$	11.40	3 x 3	27.60
2 x $1\frac{3}{4}$	12.60	$3\frac{1}{2} \times 3$	36.00
2 x 2	13.80	$3\frac{1}{2} \times 3\frac{1}{2}$	39.60
$2\frac{1}{2} \times 1\frac{3}{4}$	17.40	4 x 3	45.60
$2\frac{1}{2} \times 2$	18.00	4 x 4	55.20

Polished or Chromium Plated, Price on Application  
Other Sizes Furnished to Order

### Loose Pin Butt Hinges

CAST BRASS—POLISHED BRASS PINS

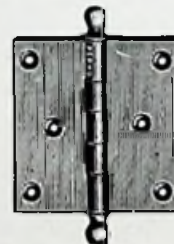


Fig. 953

Size Open Inches	Per Pair	Size Open Inches	Per Pair
$1\frac{1}{2} \times 1\frac{1}{2}$	\$1.70	3 x $2\frac{1}{2}$	\$3.60
2 x $1\frac{1}{2}$	1.90	3 x 3	3.80
2 x 2	2.30	$3\frac{1}{2} \times 3$	4.50
$2\frac{1}{2} \times 2$	2.75	$3\frac{1}{2} \times 3\frac{1}{2}$	4.80
$2\frac{1}{2} \times 2\frac{1}{2}$	3.00	4 x $3\frac{1}{2}$	6.20
3 x 2	3.40	4 x 4	8.00

Chromium Plated, add 40% to above Prices.

### Skylight or Hatch Hinges

CAST BRONZE



Fig. 376

Length Between Joints Inches	Plain Bronze Per Pair	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Open Inches
2	\$3.70	\$5.25	\$6.75	$11\frac{1}{4}$
3	4.70	6.25	8.00	$12\frac{1}{4}$
4	5.00	6.85	9.25	13
5	6.00	8.00	11.00	$16\frac{1}{4}$
6	7.00	9.50	12.50	17



**Butterfly Hinges**  
WROUGHT BRASS—PLAIN



Fig. 1058

No.	Per Pair	Length Open Inches	Width at Pin Inches	Weight Per Pair Ounces	Thickness Inches
1	\$.16	2 1/4	3/4	1/2	.035
2	.24	3 1/8	1 1/16	1 1/2	.040

**Spring Hinges**  
WROUGHT BRASS—PLAIN

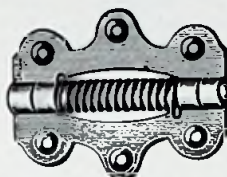


Fig. 1059

No.	Per Pair	Length Inches	Width Open Inches	Weight Per Pair Ounces
1	\$.65	2 3/8	1 7/8	3
2	.90	3	2 3/8	5

**Spring Hinges**  
CAST BRONZE—POLISHED

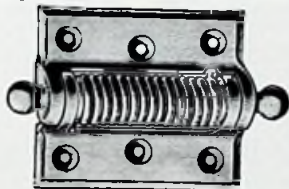


Fig. 1107

Per Pair	Length Inches	Width Inches	Weight Per Pair Ounces
\$4.50	3	2 1/2	12

**Hatch Hinges**  
CAST BRONZE



Fig. 773

For use with flush hatch cover.

Polished Bronze Per Pair	Chromium Plated Per Pair	Length Inches	Width Overall Inches	Weight Per Pair Pounds
\$6.50	\$8.25	3 1/8	2 3/8	1 3/4

Illustration shows one half pair.

**Continuous Hinge**  
WROUGHT BRASS—BRASS PIN



Fig. 211

For use on hatch covers, locker doors, windshields, etc. Holes are two inches apart, center to center.

Width Open Inches	Length Inches	Polished Brass Each	Chrom. Plated Each	Thickness Inches
1 1/16	60	\$2.65	\$3.20	.045
1 1/4	60	2.75	3.30	.040
1 1/4	72	3.30	4.00	.040
1 1/2	60	2.80	3.60	.040
1 1/2	72	3.35	4.40	.040
2	60	3.35	4.40	.040
2	72	4.00	5.25	.040

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

**Flat Hatch Trim**  
WROUGHT BRASS—DRILLED

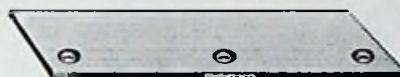


Fig. 243

For finishing around edges of hatch. Drilled and countersunk off center for No. 6 flat head screws.

Width Inches	Length Inches	Polished Brass Each	Chromium Plated Each	Thickness Inches
1 1/16	60	\$2.10	\$2.70	.045
1 1/4	60	2.40	3.00	.040
1 1/4	72	2.90	3.60	.040
1 1/2	60	2.65	3.30	.040
1 1/2	72	3.20	4.00	.040

Supplied in special lengths to order, price on application.

Supplied undrilled and unpolished, price on application.

**Hatch Handle**  
CAST BRONZE



Fig. 185

Polished Bronze Each	Chrom. Plated Each	Length Overall Inches	Height Overall Inches	Size Opening Inches	Weight Ounces
\$1.10	\$1.75	5	1 1/8	3 1/4 x 1	6

**Flush Hatch Lifting Handle**  
CAST BRONZE--SAFETY TYPE

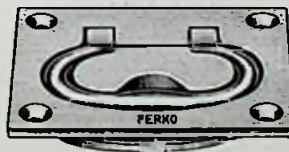


Fig. 774

No recess to catch heels, chair or table legs, etc.

Polished Bronze Each	Chromium Plated Each	Size Plate Inches	Inside Handle Inches	Weight Ounces
\$2.50	\$3.75	3 x 2 1/4	1 3/4 x 1	6

## Sash Hinges CAST BRONZE

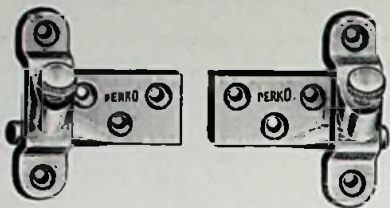


Fig. 418

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

No.	Size of Hinge Plates Inches	Size of Bracket Base Inches	Weight Per Set Ounces	Length of Pin Inches
1	1 1/8 x 3/8	2 1/2 x 1 1/8	6	7/8
2	1 1/8 x 3/8	3 1/4 x 1 1/8	7	7/8
		Polished Bronze Per Set		Chromium Plated Per Set
No. 1		\$2.50		\$3.90
2		3.00		4.50

## Combination Sash Hinges WITH CURTAIN ROD SOCKETS CAST BRONZE

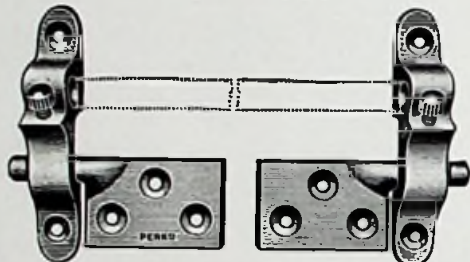


Fig. 960

Size of Hinge Plates Inches	Size of Bracket Base Inches	Weight Per Set Ounces	Length of Pin Inches
1 7/8 x 3/8	2 3/4 x 1/2	7	3/8
		Polished Bronze Per Set	Chromium Plated Per Set
		\$3.00	\$4.50

## Sash or Skylight Fastener CAST BRONZE



Fig. 770

Size Inches	Emery Finish Each	Polished Bronze Each	Chromium Plated Each
3/8 x 4	\$2.50	\$3.25	\$4.50

## Wardrobe Hooks CAST BRONZE



Fig. 635

Polished Brass Each	Chromium Plated Each	Projection Inches	Width Inches	Weight Ounces
\$ .35	\$ .55	1 3/4	1	1

## Sash Anti Rattlers CAST BRONZE

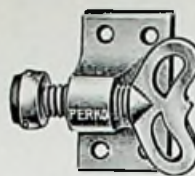


Fig. 839

Furnished with leather tip to prevent defacing of woodwork. Size of base 1 1/2" x 1".

Polished Bronze, Each ..... \$1.50  
Chromium Plated, Each ..... 2.20

## Sash Lifts CAST BRONZE



Fig. 776

No.	Size of Plate	Polished Bronze Each	Chromium Plated Each	Weight Ounces
1	1/2 x 1 1/2	\$ .40	\$ .75	1/2
2	3/4 x 1 1/2	.40	.75	3/4

## Sash Fasteners LEFT OR RIGHT HAND CAST BRONZE



Fig. 777

Polished Bronze Each	Chromium Plated Each	Size Mounting Plate Inches	Weight Ounces
\$ .80	\$1.25	1 3/4 x 1	1 1/2

Please specify left or right hand

## Coat and Hat Hooks CAST BRASS



Fig. 959

Polished Brass Each	Chromium Plated Each	Projection Inches	Width Base Inches	Weight Ounces
\$ .40	\$ .55	2	1 1/4	2 1/2



## Skylight Quadrants

CAST BRONZE

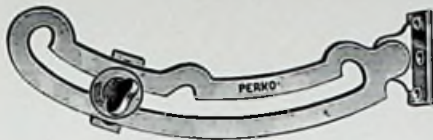


Fig. 449

No.	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Overall Inches	Length Adjustment Inches	Weight Per Pair Pounds
1	\$8.75	\$11.00	5	3 1/8	1/2
2	10.50	13.00	8	6 1/2	1 1/2
3	12.65	15.50	10 1/4	8 1/2	2 1/8
4	13.75	17.00	12	10 1/2	2 1/4

## Hatch Adjusters

CAST BRONZE

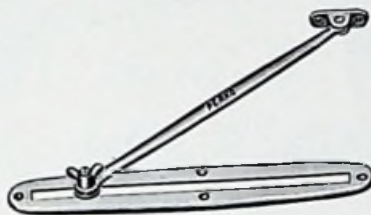


Fig. 797

Polished Bronze Each	Chrom. Plated Each	Length Arm Inches	Length Adjustment Inches	Length Plate Inches	Weight Ounces
\$4.20	\$5.50	10	9 1/2	10 3/4	13

## Casement Adjuster

ALL BRASS—HEAVY PATTERN

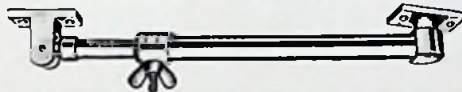


Fig. 1179

A non-slip adjuster with powerful grip to stay put in position desired.

Illustration shows swivel base on left side and swinging base on right.

Polished Brass Each	Chromium Plated Each	Length Closed Inches	Length Open Inches	Diam. Outside Tube Inches
\$3.00	\$4.25	11	20	1/2

## Friction Catches

ALL BRASS—ADJUSTABLE TENSION

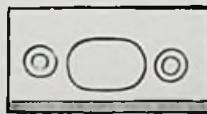


Fig. 178

Above cuts are full size. Supplied complete with either round or oblong strike. Please specify.

Per Gross — \$16.50

## Door Pulls

CAST BRONZE

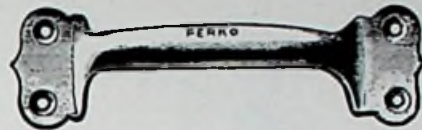


Fig. 775

Length Overall Inches	Polished Bronze Each	Chromium Plated Each	Length Inside Inches	Weight Ounces
4 1/4	\$ .50	\$ .80	2 3/8	2
5 3/4	.80	1.15	3 3/4	4

## Drawer Pulls

CAST BRASS—POLISHED



Fig. 958

Width Overall Inches	Each	Width Inside Inches	Weight Ounces
3	\$ .45	2 1/8	2
4	.50	2 7/8	3

## Door Buttons

CAST BRASS—POLISHED



Fig. 948

No.	Per Dozen Complete	Without Plate Per Dozen	Diam. Inches
1	\$4.40	\$1.55	1 1/2
2	5.00	2.20	1 3/4
3	6.00	2.50	2

## Door Stops

CAST BRONZE—POLISHED RUBBER TIP



Fig. 1109

Furnished complete with screws.

Each	Diam. Base Inches	Projection Inches	Weight Ounces
\$1.00	2 1/4	1	4

## Elbow Catches

CAST BRASS



Fig. 1056

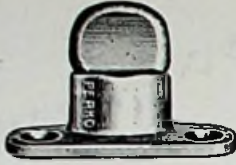
Small spiral brass spring in catch lever. For light cupboard doors, etc.

Size Base Inches	Plain Brass Each	Polished Brass Each	Weight Ounces
1 3/4 x 3/8	\$ .40	\$ .60	1



## Curtain Fasteners

WROUGHT BRASS



Fastener  
Fig. 995



Eyelet  
Fig. 996



Washer  
Fig. 997

Made of stamped brass, for single and double curtains.

	Height Overall	Height Overall	Size	Single	Double
	Single	Double	Base		
	Inches	Inches	Inches	Per 100	Per 100
Complete Sets, Figs. 995-996-997.....	3/4	3/8	1 1/4 x 1/2	\$18.00	\$24.00
Fastener Only, Fig. 995.....				14.50	16.50
Eyelet Only, Fig. 996.....				2.50	2.50
Washer Only, Fig. 997.....				1.30	1.30

Note—Chrome plated finish can be supplied only in complete sets, add 50% to above set prices.

Note—Double fasteners when ordered complete are supplied with two eyelets and two washers for each fastener.

## Lift The Dot Fasteners

BRASS



Single Stud  
Fig. 114



Double Stud  
Fig. 115



Clinch Plate  
Fig. 118



Single Socket  
Fig. 116



Double Socket  
Fig. 117

Above cuts are all full size.

Screws on single and double studs are 3/4" No. 8.

	Single	Double
	Per 100	Per 100
Complete Sets, Figs. 114-116-118.....	\$15.50	
Complete Sets, Figs. 115-117-118.....		\$17.00
Studs Only, Fig. 114.....	6.00	
Studs Only, Fig. 115.....		6.50
Socket Only, Fig. 116.....	9.00	
Socket Only, Fig. 117.....		10.00
Clinch Plate Only, Fig. 118.....	1.00	1.00

## Curtain or Grommet Hooks

CAST BRONZE

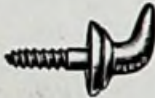


Fig. 1000

Plain Bronze	Diam. Flange	Length
Per Dozen	Inches	Screw
		Inches
\$1.20	3/8	1/2

## Grommet Hole Cutters

FORGED STEEL



Fig. 903

No.	Each	Diam. Hole	No.	Each	Diam. Hole
		Inches			Inches
0	\$1.05	1/4	5	\$3.95	3/8
1	1.05	3/8	6	4.30	3/4
2	1.30	1 1/8	7	4.60	5/8
3	1.30	3/2	8	4.95	1 1/8
4	1.85	1/2			

## 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	\$3.95	\$3.95	1 1/4
1	4.25	4.25	1 3/8
2	4.35	4.35	1 3/8
3	4.60	4.60	1 7/8
4	4.90	4.90	2 3/8
5	5.30	5.30	2 5/8
6	6.25	6.25	3 1/2
7	9.25		3 3/4
8	10.25		5

Use a wooden mallet with above dies.



## Paint Scraper Set

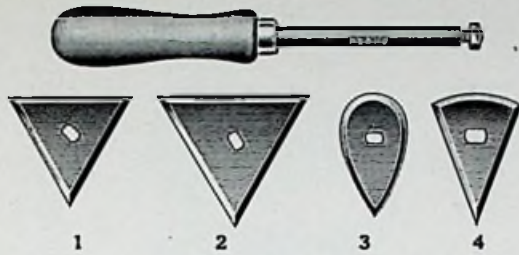


Fig. 1015

Per Set—\$2.10

Set consists of handle with 4 blades illustrated, and nut to change and attach blades.

Packed, 1 set to a box.

No. 1 Blade, Triangular—2½ x 2¾ inches.

No. 2 Blade, Triangular—3x3 inches.

No. 3 Blade, Oval—2½ x 1¼ inches.

No. 4 Blade, Curved Top, Triangle—2¾ x 1¾ inches.

Length Handle—8½ inches.

## Paint Scrapers



Triangular  
Figs. 625 and 626

Oval  
Fig. 918

Fig.	Complete Per Doz.	Blades Only Per Doz.	Size Blade Inches	Length Inches	Weight Per Doz. in Lbs.
625	\$ 9.50	\$4.20	2½ x 2½	6	2½
626	15.00	5.40	3 x 3	9½	5
918	9.50	4.20	2½ x 1½	6	2¾

## Ship Scrapers

TEMPERED STEEL BLADES



Fig. 920

Each	Blades Only Each	Handles Only Each	Size Blade Inches	Length Inches
\$2.75	\$1.10	\$1.65	4½ x ½	17

## Genuine File Scrapers

FROM FLAT MILL FILES



Fig. 1174

Made from 14 inch and 16 inch used files, no selection of length. Carefully heat treated.

Per Dozen	Approx. Width Inches	Approx. Thickness Inches	Approx. Width Blade Inches	Approx. Weight Per Dozen Pounds
\$10.80	1¼	⅜	1¾	17

## Double End Scrapers

FINE GRADE TOOL STEEL  
HEAT TREATED



Fig. 1175

Per Dozen	Length Inches	Width Inches	Thick-ness Inches	Width Blade Inches	Weight Per Dozen Pounds
\$7.20	15	1	¼	1¾	13

## Marlin Spikes

POLISHED STEEL  
FOR WIRE ROPE

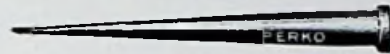


Fig. 921

Length Inches	Per Dozen	Approx. Weight Per Dozen in Pounds
8	\$28.80	6
10	31.20	10
12	33.60	12¾
14	36.00	16½
16	43.20	25
18	48.00	30

FOR MANILA ROPE

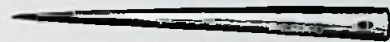


Fig. 922

Length Inches	Per Dozen	Approx. Weight Per Dozen in Pounds
6	\$11.40	5¾
8	13.20	7½
10	15.00	12
12	17.40	17
14	22.80	23½
16	28.20	27
18	33.60	34¾

## Hand Fids

MAPLE



Fig. 923

For use in splicing ropes and light flexible cables; has a rounded end for hand use; varnished finish.

No.	Per Dozen	Size Inches
0	\$ 9.00	12 x 1¾
1	10.50	14 x 1¾
2	12.00	16 x 2
3	13.50	18 x 2
4	21.50	20 x 2¼
5	33.50	24 x 3

## Caulking Irons

MALLEABLE IRON



Fig. 307

Size No.	Per Dozen	Thickness Inches	Length Inches	Width Blade Inches	Weight Per Doz. in Lbs.
00	\$12.00	⅜	5	2	3½
0	12.00	⅝	5⅝	2½	4½
1	13.20	⅞	5¾	2¾	5¼

## 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	Self Colored Each	Plain Bronze Each	Length Inside Inches	Between Eyes Inches	Diameter Pin Inches	Steel Weight Per 100 in Pounds	Steel Approx. Strength in Pounds
3/8	\$ .33		\$ .60	3/8	1/8	1/8	7	3000
1/4	.33	\$ .31	.60	1 1/8	1/8	3/16	12	4005
5/16	.39	.36	.90	1 1/4	1/8	3/8	20	6165
3/8	.44	.42	1.35	1 1/2	5/8	1/2	31	7920
7/16	.55	.51	1.65	1 3/4	3/4	1/2	47	11925
1/2	.66	.61	2.40	2	3/8	3/8	69	15576
5/8	.99	.90		2 1/2	1 1/8	3/4	137	26100
3/4	1.43	1.32		2 3/8	1 3/8	7/8	219	35280
7/8	1.87	1.65		3 1/4	1 1/2	1	319	47700
1	2.42	2.10		3 1/2	1 5/8	1 1/8	500	58140
1 1/8	3.52	3.08		4 1/8	1 7/8	1 1/4	681	68400
1 1/4	4.40	3.85		4 1/4	2	1 3/8	950	85500
1 3/8	5.50	4.84		4 7/8	2 1/4	1 1/2	1218	104400
1 1/2	7.15	6.38		6	2 1/2	1 5/8	1625	124200
1 3/4	11.00	9.62		8	3	2	2700	190800
2	16.50	14.30		8	3 3/8	2 1/4	3725	230400

Bronze Shackles are only furnished with screw pin, Fig. 314.

## 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	Self Colored Each	Length Inside Inches	Between Eyes Inches	Diameter Pin Inches	Weight Per 100 in Pounds	Approx. Strength in Pounds
1/4	\$ .33	\$ .31	1 1/8	1/8	1/8	10	4700
3/8	.39	.36	1	1/8	3/8	18	7200
5/16	.44	.42	1 1/4	3/8	1/4	28	9300
7/16	.55	.51	1 3/8	3/4	1/2	44	14100
1/2	.66	.61	1 5/8	7/8	3/8	70	18300
5/8	.99	.90	2	1 1/8	3/4	130	30800
3/4	1.43	1.32	2 3/8	1 3/8	7/8	212	41600
7/8	1.87	1.65	2 3/4	1 1/2	1	300	56000
1	2.42	2.10	3 1/8	1 5/8	1 1/8	470	68800
1 1/8	3.52	3.08	3 3/8	1 7/8	1 1/4	600	81000
1 1/4	4.40	3.85	3 1/2	2	1 3/8	800	100800
1 3/8	5.50	4.84	4 1/2	2 1/4	1 1/2	1150	123000
1 1/2	7.15	6.38	5 1/8	2 1/2	1 5/8	1480	146000
1 3/4	11.00	9.62	6	3	2	2340	225000
2	16.50	14.30	6 3/4	3 3/8	2 1/4	3200	272700



## Wire Rope Thimbles

GALVANIZED FORGED STEEL  
FORGED BRONZE AND STAINLESS STEEL



Fig. 466

For Size Rope Inches	Galv. Per 100	Bronze Per 100	Stainless Steel Per 100	Length Overall Inches	Width Inside Inches	Weight Per 100 In Lbs.
1/8	\$4.80	\$18.00	\$30.00	1 3/4	5/8	2 5/8
1/4	4.80	18.00	30.00	1 3/4	1 1/8	2 5/8
3/8	4.80	24.00	36.00	2	3/4	4 3/8
1/2	6.00	30.00	42.00	2 1/8	1 1/8	5 1/2
5/8	7.20	42.00	54.00	2 3/8	1 1/8	10 3/8
3/4	8.40			2 7/8	1 1/8	11 3/4
7/8	9.60			2 7/8	1 1/8	15 1/2
1	13.20			3 3/8	1 1/8	27 1/2
1 1/8	15.60			3 3/8	1 1/2	40
1 1/4	36.00			5 1/8	1 7/8	84
1 1/2	48.00			6 1/2	2 1/8	106
1 3/4	66.70			6 1/2	2 1/2	125
2	100.00			7	2 3/4	138
2 1/4	167.00			7 1/2	3	250
2 1/2	267.00			10	3 1/2	512
2 3/4	333.00			10	3 1/2	600

## Manila Rope Thimbles

GALVANIZED DROP FORGED STEEL



Fig. 468

For Dia. Rope Inches	Galvanized Per 100	I. D. Hole Inches	O. D. Edge to Edge Inches	Weight Per 100 in Lbs.
1/8	\$10.50	3/8	3/4	1 1/2
3/8	10.50	1/2	3/8	2
1/2	11.80	5/8	1	3
5/8	13.00	3/4	1 1/4	5 1/2
3/4	17.00	7/8	1 1/2	9
7/8	19.65	1	1 3/4	17
1	22.25	1 1/8	2	25 1/2
1 1/8	26.20	1 3/8	2 1/4	34
1 1/4	32.95	1 1/2	2 1/2	38
1 3/8	45.85	1 5/8	2 3/4	48
1 1/2	58.95	2	3	70
1 3/4	78.60	2 3/8	3 1/2	108
2	157.20	2 3/4	4	150
	294.75	2 3/4	5	180

## Sail Thimbles

GALVANIZED MALLEABLE IRON



Fig. 469

*Size Inches	Per Dozen	Diam. Rope Inches	I. D. Hole Inches	Weight Per Doz. in Lbs.
3/4	\$ .65	1/4	1/2	1/4
1	.85	3/8	5/8	3/8
1 1/4	1.15	1/2	3/4	3/8
1 1/2	1.45	5/8	1 1/8	7/8
1 3/4	1.85	3/4	1 1/8	1 1/8
2	2.15	7/8	1 1/2	1 1/2
2 1/4	2.60	1	1 5/8	2
2 1/2	3.35	1 1/8	1 3/4	2 3/4
2 3/4	3.95	1 1/4	2	3
3	4.60	1 1/2	2 1/8	4 1/4

\*Size is from edge to edge across hole.

## 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.	Size Wire Rope Inches	Galvanized Per 100	Est. Wt. Per 100 in Lbs.
3/8	\$ 8.80	8 1/2	7/8	\$55.00	149
1/2	10.30	16 1/2	1	66.00	190
5/8	11.40	19	1 1/8	104.50	310
3/4	15.85	25	1 1/4	123.00	375
7/8	17.75	32	1 3/8	220.00	560
1	20.00	40	1 1/2	236.00	645
1 1/8	27.00	62	1 3/4	456.00	1085
1 1/4	38.50	101	2	605.00	1620

## Lacing Eyes

GALVANIZED MALLEABLE IRON AND BRASS



Without Shoulder  
Fig. 766



With Shoulder  
Fig. 767

Size No.	Galv. Per 100	Plain Brass Per 100	I. D. of Eye Inches	Length Under Eye Inches	Weight Per 100 in Lbs.
1	\$ 5.25	\$ 7.00	1/8	1	2 1/2
2	8.00	9.00	3/8	1 1/4	4 1/2
3	10.50	12.00	1/2	1 1/2	8
4	14.50	15.00	5/8	2	12

## Tiller Rope Clamps

GALVANIZED IRON AND CAST BRONZE



Fig. 358

For Rope Diameter Inches	Galv. Each	Plain Bronze Each	Width Inches	Length Inches	Weight Ounces
1/8	\$ .18	\$ .24	3/4	1 5/8	1 3/4
1/4	.20	.25	3/4	1 3/4	2
3/8	.25	.33	1	1 3/4	3
1/2	.33	.45	1	2	3 1/2
5/8	.40	.65	1 1/8	2 1/4	5



## OPEN TURNBUCKLES

DROP FORGED STEEL—HOT GALVANIZED

HOOK AND EYE

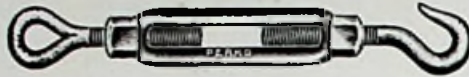


Fig. 390

EYE AND EYE



Fig. 391

HOOK AND HOOK



Fig. 392

JAW AND EYE



Fig. 393

JAW AND JAW

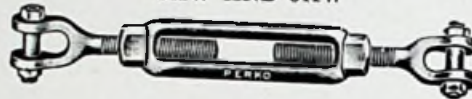


Fig. 394

	Diameter and Take-up Inches	Fig. 390 Each	Fig. 391 Each	Fig. 392 Each	Fig. 393 Each	Fig. 394 Each	Overall Length Closed Inches	Opening in Hook Inches	Inside Eye Inches	Inside Jaw Inches	Approx. Weight Pounds
★	1/4 x 4	\$ .50	\$ .50	\$ .50	\$ .63	\$ .75	8	3/8	1/2 x 5/8	5/8 x 5/8	1/3
★	1/8 x 4 1/2	.63	.63	.63	.78	.93	9 1/4	1/2	1/2 x 1 1/8	1/2 x 3/4	1/2
★	3/8 x 6	.75	.75	.75	.93	1.10	11 1/4	1/2	3/4 x 1	1/2 x 1 1/8	3/4
★	1/2 x 6	1.13	1.13	1.13	1.38	1.63	13	1 1/8	3/4 x 1 1/8	3/8 x 1	1 1/2
	1/2 x 9	1.80	1.80	1.80	2.13	2.38	16	1 1/8	3/4 x 1 1/8	3/8 x 1	2
	1/2 x 12		2.13		2.50	2.88	19		3/4 x 1 1/8	3/8 x 1	2 1/2
★	5/8 x 6	1.44	1.44	1.44	1.63	1.88	14	1 1/8	1 x 1 3/8	1 1/8 x 1 3/8	3
	5/8 x 9	2.19	2.19	2.19	2.50	2.88	17	1 1/8	1 x 1 3/8	1 1/8 x 1 3/8	3 3/4
	5/8 x 12		2.63		3.00	3.38	20		1 x 1 3/8	1 1/8 x 1 3/8	4 1/2
	5/8 x 18		3.25		3.88	4.38	26		1 x 1 3/8	1 1/8 x 1 3/8	6
	3/4 x 6	1.88	1.88	1.88	2.19	2.50	15 1/2	1 1/8	1 1/8 x 1 1/2	7/8 x 1 1/2	3 1/2
★	3/4 x 9	2.88	2.88	2.88	3.38	3.75	18 1/2	1 1/8	1 1/8 x 1 1/2	7/8 x 1 1/2	4 1/4
	3/4 x 12	3.38	3.38	3.38	3.88	4.38	21 1/2	1 1/8	1 1/8 x 1 1/2	7/8 x 1 1/2	5 1/4
	3/4 x 18		4.50		5.25	5.88	27 1/2		1 1/8 x 1 1/2	7/8 x 1 1/2	6 3/4
★	7/8 x 12	4.08	4.08	4.08	4.68	5.40	23 3/4	1 1/8	1 1/8 x 2	1 1/8 x 1 3/4	7 3/4
	7/8 x 18		5.16		6.00	6.90	29 3/4		1 1/8 x 2	1 1/8 x 1 3/4	10
★	1 x 12	5.00	5.00	5.00	5.76	6.60	25	1 1/4	1 1/8 x 2	1 1/4 x 2	11 1/4
	1 x 18		6.60		7.80	8.70	31		1 1/8 x 2	1 1/4 x 2	13 3/4
	1 x 24		8.10		9.60	10.50	37		1 1/8 x 2	1 1/4 x 2	16 1/4
★	1 1/4 x 12		8.70		10.80	13.20	30		1 1/8 x 2 3/8	1 3/8 x 2	17 3/4
	1 1/4 x 18		10.80		13.20	15.60	36		1 1/8 x 2 3/8	1 3/8 x 2	22 3/4
	1 1/4 x 24		13.80		15.60	18.00	42		1 1/8 x 2 3/8	1 3/8 x 2	27 3/4
	1 1/2 x 12		13.20		15.60	18.00	32		1 1/8 x 2 3/8	2 x 2 3/8	30
★	1 1/2 x 18		16.20		18.90	21.60	38		1 1/8 x 2 3/8	2 x 2 3/8	35
	1 1/2 x 24		20.40		24.00	27.60	44		1 1/8 x 2 3/8	2 x 2 3/8	41

For one lock nut add 5% to above, for two lock nuts add 10% to above.

★ Indicates standard marine lengths. Same will be shipped when no length is specified.

All turnbuckles have right and left hand threads.

3/8 inch diameter and larger in jaw type can be supplied with pin and cotter instead of bolt and nut to order.

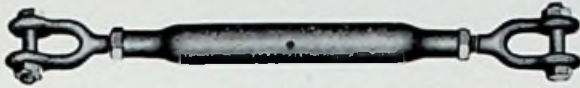




**Improved Pipe Turnbuckles**  
GALVANIZED DROP FORGED STEEL  
WITH LOCK NUTS



Jaw and Eye Fig. 398



Jaw and Jaw Fig. 382

Diam. Thread Eye & Jaw Inches	Fig. 381 Each	Fig. 382 Jaw & Jaw Each	Fig. 398 Jaw & Eye Each	Length of Pipe Inches	Weight Per 100 in Lbs.
1/4	\$1.00	\$1.40	\$1.25	5 1/2	47 1/2
5/16	1.20	1.55	1.45	5 3/4	62 1/2
3/8	1.45	1.80	1.68	6 1/2	102
1/2	2.10	2.60	2.34	8	178
5/8	3.00	3.60	3.30	10 3/4	369
3/4	4.00	4.80	4.50	12	500
7/8	5.25	6.60	5.95	15	775
1	7.00	8.40	7.50	15	1025
1 1/4		13.20	12.00	16	2050
1 1/2		24.00	21.60	21	3200

**Screw Hooks**

STEEL—GALVANIZED



Fig. 779

Size Inches	Galvanized Per Doz.	Length Overall Inches	Est. Wt. Per Doz. in Lbs.
1/4	\$1.40	3 1/2	3/4
5/16	1.65	4	1
3/8	1.85	4 3/4	2 1/8
1/2	3.85	5 3/8	4 3/4

**Swivels**

DROP FORGED STEEL



Fig. 622

Size Inches	Galv. Each	Overall Length Inches	Width Inside Inches	Weight Per 100 in Pounds	Est. Ult. T. S. Tons
1/4	\$1.05	3 1/4	3/4	19	2 1/2
5/16	1.30	4	1	33	4 1/4
3/8	1.45	4 7/8	1 1/8	53	5 1/2
1/2	2.20	6 1/4	1 3/8	133	9 1/2
5/8	3.65	7 7/8	1 3/8	275	14 3/4
3/4	5.10	9 3/8	1 7/8	456	18 1/2
7/8	6.55	10 3/8	2 1/8	671	22 1/4
1	8.00	12	2 3/8	1000	27 1/2
1 1/4	15.75	14 3/4	3	1810	37 1/2

**Swivels with Jaw End**

DROP FORGED STEEL



Fig. 623

Size Inches	Galv. Each	Overall Length Inches	Width Between Jaws Inches	Inside Width Swivel Inches	Weight Per 100 in Lbs.
1/4	\$1.45	3	1/2	3/4	16
5/16	1.65	3 3/4	1/2	1	27
3/8	1.85	4 3/4	3/8	1 1/8	60
1/2	2.90	6	3/8	1 3/8	125
5/8	4.05	7 1/4	1	1 5/8	225
3/4	5.65	8	1 1/8	1 7/8	400
7/8	7.25	10	1 3/8	2 1/8	550
1	8.75	11 1/2	1 5/8	2 3/8	925
1 1/4	17.25	14	2	2 7/8	1525

Note—Jaw End Swivels have same approximate tensile strength as Swivels, Fig. 622.

**Swivels**

GALVANIZED MALLEABLE IRON AND BRASS



Fig. 624

No.	Galv. Each	Plain Brass Each	Size Inches	I. D. Eye Inches	Inside Width Swivel Inches	Overall Length Inches	Weight Per 100 in Lbs.
1	\$ .10	\$ .25	1/16	1/16	3/8	1 3/4	4
2	.15	.35	1/4	3/8	1/16	2 1/8	7 1/2
3	.25	.45	1/4	1/16	1/2	2 1/2	10
4	.35	.60	1/16	1/2	1/16	3 1/4	19 1/2
5	.45	.75	3/8	5/8	3/4	3 1/2	24 1/2
6	.65	.90	1/16	3/4	1	4 5/8	41

**Jaw and Jaw Swivels**

DROP FORGED STEEL



Fig. 481

Size Inches	Galv. Each	Overall Length Inches	Width Inside Inches	Length Inside Inches	Est. Wt. Each in Lbs.
3/8	\$2.05	4 3/4	1 1/8	5/8	1
1/2	3.30	6 1/8	3/8	3/4	1 3/4
5/8	4.30	7 1/2	1 1/16	1	3
3/4	6.20	8 3/8	1 3/8	1 3/8	5



## Screw Eye Bolts

GALV. DROP FORGED STEEL AND BRONZE  
LARGE EYE



Without Shoulder—Fig. 500

With Shoulder—Fig. 501

Size Inches	Fig. 500 Galv. Each	Fig. 501 Galv. Each	Fig. 501 Plain Bronze Each	Inside Diam. Eye Inches	Galv. Weight Per 100 in Lbs.
1/4 x 2	\$ .13	\$ .13	\$ .66	1/2	6
3/8 x 2 1/4	.16	.16	.77	5/8	12
3/8 x 2 1/2	.18	.18	.94	3/4	17
1/2 x 3 1/4	.26	.26	1.43	1	43
5/8 x 4	.46	.46		1 1/4	92
3/4 x 4 1/2	.78	.78		1 1/2	146
7/8 x 5	1.10	1.10		1 3/4	220
1 x 6	1.65	1.65		2	325

Sizes are diameter and length of shank.

## Galvanized Screw Ring Bolts

DROP FORGED STEEL



Without Shoulder—Fig. 618

With Shoulder—Fig. 619

Size Inches	Fig. 618 Galv. Each	Fig. 619 Galv. Each	I. D. Ring Inches	Weight Per 100 in Lbs.
1/4 x 2	\$ .34	\$ .34	1 3/4	14
3/8 x 2 1/4	.41		2	25
3/8 x 2 1/2	.48	.48	2	40
1/2 x 3 1/4	.68	.68	2 1/2	88
5/8 x 4	1.16	1.16	2 3/4	160
3/4 x 4 1/2	1.84	1.84	3	245
7/8 x 5	2.75	2.75	3 1/4	400
1 x 6	3.95	3.95	3 3/4	590

## Nut Eye Bolts

GALV. DROP FORGED STEEL AND BRONZE  
LARGE EYE



Without Shoulder—Fig. 522

With Shoulder—Fig. 523

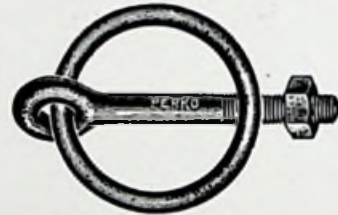
Size Inches	Fig. 522 Galv. Each	Fig. 523 Galv. Each	Fig. 523 Plain Bronze Each	Inside Diam. Eye Inches	Galv. Weight Per 100 in Lbs.
1/4 x 2	\$ .18	\$ .18	\$ .66	1/2	7
1/4 x 4	.26	.26	.83	1/2	10
3/8 x 2 1/4	.21	.21	.77	5/8	13
3/8 x 4 1/4	.31	.31	.99	5/8	17
3/8 x 2 1/2	.23	.24	.88	3/4	21
3/8 x 4 1/2	.36	.36	1.15	3/4	27
3/8 x 6	.42			3/4	32
1/2 x 3 1/4	.33	.33	1.38	1	45
1/2 x 6	.52	.52	1.76	1	65
1/2 x 8	.58	.58		1	75
1/2 x 10	.62			1	85
5/8 x 4	.59	.59		1 1/4	85
5/8 x 6	.78	.78		1 1/4	110
5/8 x 8	.86			1 1/4	135
5/8 x 10	.94			1 1/4	160
3/4 x 12	1.00			1 1/4	185
3/4 x 4 1/2	.91	.91		1 1/2	132
3/4 x 6	1.24	1.24		1 1/2	160
3/4 x 8	1.34			1 1/2	184
3/4 x 10	1.44			1 1/2	208
3/4 x 12	1.55			1 1/2	232
7/8 x 5	1.30	1.30		1 3/4	215
7/8 x 8	1.75	1.75		1 3/4	265
7/8 x 12	2.00			1 3/4	339
1 x 6	1.95	1.95		2	340
1 x 9	2.50	2.50		2	400
1 x 12	2.70			2	463

Sizes are diameter and length of shank.

Special lengths and threading available if ordered in manufacturing quantities.

## Galvanized Nut Ring Bolts

DROP FORGED STEEL



Without Shoulder—Fig. 620

With Shoulder—Fig. 621

Size Inches	Fig. 620 Galv. Each	Fig. 621 Galv. Each	I. D. Ring Inches	Weight Per 100 in Lbs.
1/4 x 2	\$ .41	\$ .41	1 3/4	16
1/4 x 4	.48		1 3/4	19
3/8 x 2 1/4	.48	.48	2	28
3/8 x 4 1/4	.54		2	33
3/8 x 2 1/2	.54	.54	2	42
3/8 x 4 1/2	.68	.68	2	48
3/8 x 6	.73		2	52
1/2 x 3 1/4	.75	.75	2 1/2	94
1/2 x 6	.95		2 1/2	115
1/2 x 8	1.00		2 1/2	131
5/8 x 4	1.16	1.16	2 3/4	175
5/8 x 6	1.36	1.36	2 3/4	190
5/8 x 8	1.44	1.44	2 3/4	205
5/8 x 10	1.52		2 3/4	220
3/4 x 4 1/2	1.84	1.84	3	275
3/4 x 6	2.18	2.18	3	300
3/4 x 8	2.29		3	334
3/4 x 12	2.50		3	400
7/8 x 5	2.72		3 1/4	415
7/8 x 8	3.20		3 1/4	465
7/8 x 12	3.47		3 1/4	531
1 x 6	3.94		3 3/4	630
1 x 12	4.73		3 3/4	790





### Galvanized Hooks

DROP FORGED STEEL — LARGE EYE



Fig. 656

Size Inches	Galv. Each	Length Overall Inches	I. D. of Eye Inches	Throat Opening Inches	Est. Wt. Per 100 in Lbs.
3/8	\$ .25	2 7/8	1 1/8	1/8	14
1/2	.31	3 5/8	1	1/8	28
5/8	.49	4 1 1/8	1 1/4	1 5/16	50
3/4	.60	5 5/8	1 1/2	1 1/8	90
7/8	.85	6 1/2	1 3/8	1 3/16	148
1	1.10	7	1 7/8	1 1/4	225

### Hooks With Wire Rope Thimbles

DROP FORGED STEEL — LARGE EYE



Fig. 610

Size Inches	Galvanized Each	Length Overall of Hook Inches	Score of Thimble Inches	Weight Per 100 in Lbs.
3/8	\$ .60	2 7/8	5/16	19
1/2	.66	3 3/8	3/8	36
5/8	1.03	4 1 1/8	1/2	62
3/4	1.15	5 5/8	1/2	102
7/8	1.57	6 1/2	5/8	170
1	1.95	7	3/4	250

For size of eye and throat opening, see Fig. 656.

### "S" Hooks

GALVANIZED WROUGHT STEEL



Fig. 680

Size Inches	Per Dozen	Length Overall Inches	Est. Wt. Per Doz. in Lbs.
1/8	\$ .60	1 1/2	1/4
1/4	.77	2	1/2
5/16	1.48	2 1/2	1
3/8	1.80	3	1 3/4
1/2	3.50	3 3/4	2 3/4
5/8	4.30	3 3/4	4

### Connecting Links

DROP FORGED STEEL WITH INTERLOCKING LUGS



Fig. 319

Size Inches	Galv. Per Dozen	S. C. Per Dozen	Overall Dimensions Inches	Est. Wt. Per Doz. Pounds
1/8	\$1.98	\$1.52	1 1/8 x 3/4	3 1/2
1/4	1.98	1.52	1 1/2 x 1	3 1/2
5/16	2.20	1.58	1 3/4 x 1 1/8	1 3/8
3/8	2.65	2.00	2 1/8 x 1 3/8	2 1/8
1/2	3.15	2.38	2 3/8 x 1 1/2	3 1/8
5/8	3.85	2.65	2 5/8 x 1 3/4	4 1/2
3/4	5.10	3.55	2 3/4 x 2	6
5/8	5.95	4.20	3 3/8 x 2 1/8	8
3/4	7.90	5.95	3 7/8 x 2 1/2	14 1/4
7/8	12.20	8.90	4 1/2 x 3	22
1	18.50	14.50	5 x 3 3/8	32
1 1/8	21.75	17.80	5 5/8 x 3 3/4	40
1 1/4	28.40	23.00	6 1/8 x 4 1/4	57
1 3/8	35.65	32.40	6 3/4 x 4 3/4	75

Note: 1/8, 3/4 and 1 1/8 inch sizes do not have interlocking lugs.

### Swing Links

MALLEABLE IRON — WITH BRONZE RIVETS AND INTERLOCKING LUGS



Fig. 784

Size Inches	Galv. Per Dozen	S. C. Per Dozen	Length Overall Inches	Diam. Eye Inches	Weight Per Dozen Pounds
1/8	\$2.00	\$1.55	1 3/4	1/8	3/8
1/4	2.15	1.70	2	3/8	1
5/16	2.40	1.85	2 1/4	1/2	1 3/4
3/8	3.00	2.35	2 3/8	1/2	2 3/4
1/2	4.70	3.65	3 1/4	5/8	4 1/2
5/8	6.40	4.95	3 5/8	3/4	6
3/4	11.00	8.50	4 3/8	7/8	11
7/8	15.00	11.00	5 1/4	1	17 1/2

### Lap Links

GALVANIZED WROUGHT STEEL



Fig. 785

Size Inches	Per Doz.	Inside Dimensions of Link Inches	Size Inches	Per Doz.	Inside Dimensions of Link Inches
3/8	\$ .54	1 x 1/2	3/8	\$1.88	1 1/8 x 1 1/8
1/4	.60	1 1/2 x 1/2	1/2	2.75	2 x 1
5/16	1.24	1 1/2 x 3/8			



## Jib Snaps

GALVANIZED MALLEABLE IRON AND BRASS



Fig. 765

Size No.	Galv. Each	Plain Brass Each	Extreme Length Inches	For Dia. Stay Inches	Weight Per 100 in Lbs.
0	\$ .30	\$ .40	1 3/8	1/4	4 3/8
1	.40	.45	2	3/16	10
2	.45	.60	2 3/8	3/8	12 1/2
3	.50	.65	2 3/4	1/2	21
4	.65	1.00	3	5/8	23 3/4

## Fast Eye Boat Snaps

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 612

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	Inside Dia. Eye Inches	Extreme Length Inches	Weight Per 100 Pounds
0	\$ .35	\$ .45	\$ .70	3/8	2	5
1	.40	.50	.80	5/8	2 3/4	10
2	.45	.65	1.00	3/4	3 1/4	13 1/8
3	.50	.85	1.30	3/4	3 7/8	26 1/4
4	.65	1.15		1	4 1/8	27 1/2
5	.90	1.55		1 1/8	4 7/8	43 3/4
6	1.05			1 1/4	5 1/4	56 1/4

## Swivel Eye Boat Snaps

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 613

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	Inside Dia. Eye Inches	Extreme Length Inches	Weight Per 100 Pounds
1	\$ .65	\$ .70	\$ 1.10	5/8	3 1/4	11
2	.80	.85	1.25	3/4	3 1/4	16 1/4
3	1.00	1.10	1.80	7/8	4 3/4	32
4	1.15	1.30		1	5 1/4	37
5	1.45	1.60		1 1/8	6	60

## Baby Snaps

POLISHED BRASS WITH FAST EYE



Fig. 842

Diam. of Eye Inches	Polished Brass Each	Length Inches
3/8	\$ .18	1 7/8

## Baby Snaps

WITH OBLONG EYE  
ELECTRO GALVANIZED AND POLISHED BRASS

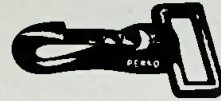


Fig. 1041

Size of Eye Inches	Galvanized Each	Polished Brass Each	Length Inches
5/8 x 1 1/8	\$ .10	\$ .15	1 3/4

## Baby Snaps

WITH SWIVEL EYE  
MALLEABLE IRON—NICKEL PLATED



Fig. 1042

Diam. of Eye Inches	Each	Length Inches
3/8	\$ .20	2 3/8

## Swivel Eye Snap

MALLEABLE IRON AND BRONZE



Fig. 659

Cadmium Plated Each	Plain Bronze Each	Extreme Length Inches	Inside Eye Inches	Inside Hook Inches	Weight Ounces
\$ .35	\$ .60	3 1/2	3/4	3/8	2

## Solid Brass Rings

POLISHED



Fig. 417

Thickness Inches	Inside Diam. Inches	Per Dozen	Thickness Inches	Inside Diam. Inches	Per Dozen
5/16	1/2	\$ .80	1/4	1 3/4	\$ 4.00
5/16	5/8	.85	1/4	2	4.35
5/16	3/4	1.90	1/4	2 1/4	5.10
5/16	7/8	1.20	1/4	2 1/2	5.30
5/16	1	1.40	5/16	1 3/4	6.00
5/16	1 1/8	1.70	5/16	2	6.40
5/16	1 1/4	1.90	5/16	2 1/4	7.00
5/16	1 1/4	2.20	5/16	2 1/2	7.80
5/16	1 1/2	2.75	5/16	2 3/4	8.20
1/4	1 1/2	3.30	5/16	3	9.00



## Pick Up Buoys

GALVANIZED SHEET IRON



Fig. 234



Fig. 235

Pick up handle is riveted to body. Eye on bottom for rope. All double seamed and soldered.

Length shown does not include eye and handle.

Fig. 234

No.	Each	Diam. Inches	Length Inches	Weight Pounds
1	\$7.75	9	14	4
2	9.00	12	18	5

Fig. 235

No.	Each	Diam. Inches	Length Inches	Weight Pounds
0	5.00	7	11	3
1	6.50	13	22	5
2	8.00	16	24	6½

## Junior Mooring Buoy

FOR RUNABOUTS AND ALL SMALL BOATS  
GALVANIZED SHEET IRON



Fig. 318

Made of sheet iron with ½ inch forged steel galvanized rod through a galvanized pipe in body. Rod has eye on top and swivel on bottom. All the strain is on the rod.

Load capacity, half submerged, 25 lbs. Equal to 35 feet of ¼ inch chain.

No.	Each	Diam. Body Inches	Length Body Inches
1	\$13.50	12	15

## Hold Fast Mooring Buoy

GALVANIZED SHEET IRON



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.

No.	Each	Diam. Body Inches	Length Body Inches	Length Overall Inches	Inside Diam. Eye Inches	Weight Pounds
1	\$20.00	13	22	33½	3	15
2	27.50	17	27	38½	3	24

## Cone Mooring Buoy

GALVANIZED SHEET IRON



Fig. 370

Heavy galvanized iron, iron pipe running all the way through buoy, heavy galvanized ¾ inch buoy rod through pipe allowing body to swivel, eye on top, swivel on bottom, body grooved for bumper which is of heavy 1½ inch outside diameter rubber hose.

No.	Size Inches	With Bumper Each	Without Bumper Each
1	16 x 24	\$23.50	\$22.00
2	20 x 30	35.50	28.50
3	24 x 36	43.00	35.00
4	30 x 36	51.00	43.00

Size does not include swivel or eye.

## Non-Fouling Kedge Anchors

GALVANIZED DROP FORGED STEEL

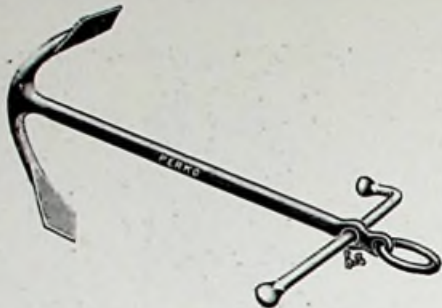


Fig. 236

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.

Weight Pounds	Galvanized Each	Length Overall Inches	Width Across Flukes Inches
5	\$ 6.10	17	10
10	7.50	25	15
15	8.90	29	18
20	10.15	31	19
25	11.40	35	20
30	13.00	36½	22
35	14.30	40	22
42	16.90	40	22
50	20.50	43	24½
60	24.40	44½	27½
75	30.50	46	28
100	40.60	50	32
125	50.70	57	32
150	61.00	59	34½
200	81.00	65	34½
250	112.00	62½	43½

## Navy Type Anchors

DROP FORGED SHANK—GALVANIZED



Fig. 45

Weight Pounds	Each	Weight Pounds	Each
5	\$2.75	50	\$17.80
10	4.25	60	20.45
15	5.60	80	27.70
20	6.95	100	34.30
25	8.90	125	42.25
30	10.20	150	50.80
35	11.90	200	68.65
40	13.85		

## Grappels

GALVANIZED DROP FORGED STEEL  
FIVE PRONG

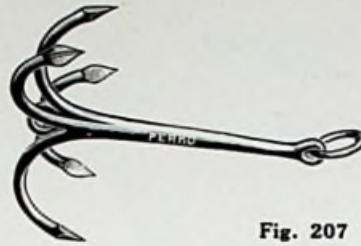


Fig. 207

Weight Pounds	Galvanized Each	Weight Pounds	Galvanized Each
4	\$4.55	15	\$7.00
7	5.15	20	10.90
10	5.75	25	20.00

Larger sizes—prices on application.

## Fishing Anchors

FOR SMALL BOATS



Fig. 1028

Weight Pounds	Self Colored Each	Galvanized Each	Diam. Inches	Height Inches
7	\$1.95	\$2.45	6	8
11	2.55	3.30	7	9
15	3.05	4.10	8	10

## Folding Anchors

GALVANIZED MALLEABLE IRON

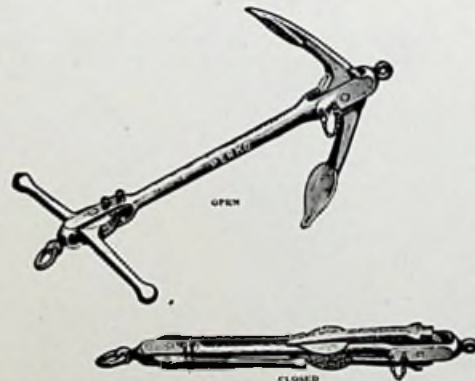


Fig. 226

Weight Pounds	Each	Length Inches	Weight Pounds	Each	Length Inches
6	\$ 5.00	19	30	\$22.00	34
8	6.75	22	35	26.00	36
10	8.40	23	45	33.25	38
12	9.75	25	55	40.50	41
15	12.00	28	76	54.00	44
20	15.50	30			
25	18.85	33			

Government Tolerance in Weight, Plus or Minus 5%



## "Danforth" Anchors GALVANIZED STEEL



Fig. 700

### Mark III Cast Steel Anchor

Cast steel flukes, drop forged steel shank and seamless drawn steel stock. Holding power from 30 to 200 times its own weight.

Weight Pounds	Length Overall Inches	Each	Weight Pounds	Length Overall Inches	Each
17	26½	\$14.50	75	47	\$48.00
30	33	24.00	100	51	65.00
50	39	38.00	150		89.00

Larger sizes—price on application.

### Mark IV High Tensile Steel

A Mark IV of the same size and fluke area as a Mark III, weighs only half as much as a Mark III and is much stronger because it is made of forged and rolled steel sections of heat-treated, high-tensile alloy steel.

The Mark IV can be safely used in place of a Mark III twice the weight.

Weight Pounds	Length Overall Inches	Each	Weight Pounds	Length Overall Inches	Each
5	21	\$7.50	18	34¼	\$23.00
12	27½	15.00	28	39½	36.00

### Mark V Rowboat Anchor

For small sailboats, outboards and rowboats. High ratio of holding power to weight. Made of carbon steel stampings.

Weight Pounds	Length Inches	Each
4½	18¾	\$4.50

#### SUGGESTED SIZES

The following tables suggest the size of Mark III anchor to be used on boats of average design under average conditions:

Length of Boat	A	B	C
20 ft. ....		17 lbs.	30 lbs.
30 ft. ....	17 lbs.	30 lbs.	30 lbs.
40 ft. ....	30 lbs.	30 lbs.	50 lbs.
50 ft. ....	30 lbs.	50 lbs.	50 lbs.
60 ft. ....	30 lbs.	50 lbs.	75 lbs.
70 ft. ....	50 lbs.	50 lbs.	75 lbs.

A—Anchor weight for normal holding ground, such as clay or sand, under average weather conditions.

B—For poor holding ground—deep soft mud or in anchorages with normal holding ground exposed to heavy seas.

C—Weight as a storm anchor in poor holding ground.

Note: Be sure to mention type number when ordering. Mark III will be shipped unless otherwise specified.

## Northhill Folding Anchors

STAINLESS STEEL OR GALVANIZED STEEL  
GREAT HOLDING POWER—LIGHTWEIGHT

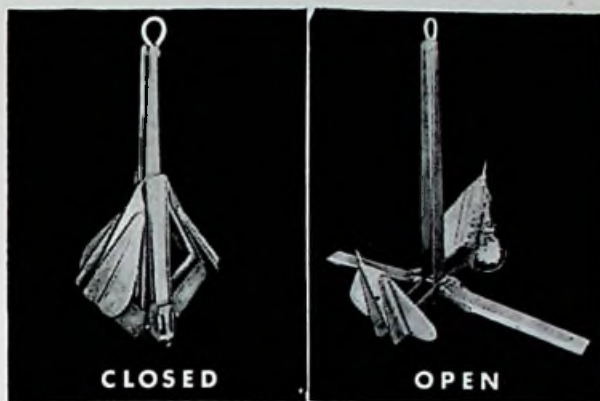


Fig. 441

Average holding power of 60 times their own weight; scientifically designed to hold. Saves weight, space, time and effort.

Weight Pounds	Galv. Steel Each	Stainless Steel Each	Holding Power Pounds	Comparative Kedge Pounds	Comparative Stockless Pounds
6	\$38.50	\$44.50	240	35	60
12	48.50	58.50	720	100	180
20	58.50	88.50	1200	175	300
30		118.50	1800	260	450

## Northhill Utility Anchors

HEAT TREATED DUCTILON—GALVANIZED  
NORTHILL HOLDING POWER AT LOW PRICE



Fig. 1067

Has removable stock for compact stowage. These anchors have tremendous structural strength and the same proven scientific advantages as the original Northhill folding anchors.

Type No.	Galv. Each	Weight Pounds	Comparative Weight Kedge Type Pounds	Comparative Weight Navy Type Pounds
3R	\$ 8.50	6	30	50
6R	14.50	13	65	110
12R	25.50	25	130	225
20R	38.50	47	225	400
30R	56.50	75	350	610
50R	79.50	105	525	918



## Braided Tiller Rope

WITH BRONZE CENTER



Fig. 761

Diam. Inches	Per 100 Feet
$\frac{3}{8}$	\$ 8.00
$\frac{1}{2}$	10.00
$\frac{5}{8}$	14.00
$\frac{3}{4}$	16.00

Supplied only in 500 foot coils.

## Rubber Covered Tiller Rope

PLOW STEEL CENTER

MOISTURE PROOF—CORROSION RESISTANT



Fig. 763

The covering is synthetic rubber, impervious to grease and oil. The wire is  $\frac{1}{16}$  inch plow steel, 6 x 7 lay. Tested over a  $1\frac{1}{2}$  inch sheave 750,000 times. No noticeable wear in rubber covering.

Diam. Inches	Per 100 Feet	Strength in Pounds	Weight 250 Ft. Coll in Pounds
$\frac{3}{16}$	\$ 8.00	300	8 $\frac{1}{2}$
$\frac{1}{4}$	10.00	350	14 $\frac{1}{2}$
$\frac{5}{16}$	14.00	660	19

Supplied only in 250 foot coils.

## Flexible Wire Tiller Rope

GALVANIZED OR BRONZE

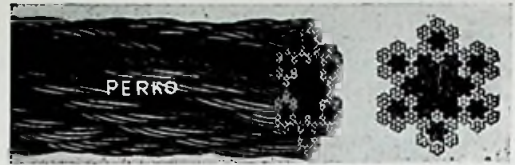


Fig. 760

Composed of 6 ropes and a hemp center. Each rope has 6 strands of 7 wires each and a cotton center.

Diam. Inches	Galvanized Per 100 Ft.	Bronze Per 100 Ft.
$\frac{1}{8}$	\$ 4.00	\$ 7.00
$\frac{1}{4}$	16.00	18.00
$\frac{3}{8}$	18.00	22.00
$\frac{1}{2}$	20.00	25.00
$\frac{5}{8}$	21.00	32.00
$\frac{3}{4}$	27.00	45.00

Supplied only in 250 and 500 foot coils.  $\frac{1}{8}$  inch size is constructed the same as Fig. 759 rigging.

## Galvanized Iron Rigging FOR GUY ROPES

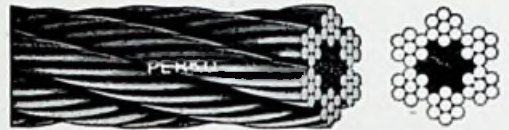


Fig. 759

Composed of six strands and a hemp center, 7 wires to the strand.

Diam. Inches	Per 100 Feet	Circumference Inches
$\frac{1}{8}$	\$3.50	$\frac{3}{8}$
$\frac{1}{4}$	4.50	$\frac{1}{2}$
$\frac{3}{8}$	5.50	$\frac{3}{4}$
$\frac{1}{2}$	7.00	1
$\frac{5}{8}$	9.00	$1\frac{1}{8}$

Supplied only in 250 and 500 foot coils.

## Assorted Sheaves

GALVANIZED IRON AND BRONZE  
COMMON BUSHED—FOR MANILA ROPE



Fig. 154

### GALVANIZED

No.	Each	Diam. Inches	Thickness Inches	For Rope Inches	Size Pin Inches
1	\$.18	$\frac{3}{4}$	$\frac{5}{16}$	$\frac{1}{4}$	$\frac{1}{8}$
2	.24	1	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{8}$
3	.27	$1\frac{1}{4}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{16}$
4	.30	$1\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{16}$
5	.40	$1\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{4}$
6	.45	2	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{1}{4}$
7	.55	$2\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{1}{4}$
8	.65	3	$\frac{7}{8}$	$\frac{3}{4}$	$\frac{1}{4}$

### BRONZE

9	.28	$\frac{1}{2}$	$\frac{5}{16}$	$\frac{1}{4}$	$\frac{5}{16}$
10	.31	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{5}{16}$
11	.35	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{4}$
12	.39	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{4}$
14	.45	$1\frac{1}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{4}$
15	.52	$1\frac{1}{8}$	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{3}{8}$
16	.58	$1\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{8}$
17	.65	$1\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{4}$
18	.78	$1\frac{3}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{4}$
19	.84	$1\frac{5}{8}$	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{3}{8}$
20	1.17	$2\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{8}$
21	5.20	6	$\frac{7}{8}$	$\frac{3}{8}$	$\frac{3}{4}$

## Assorted Brass Pins

FOR BLOCK SHACKLES, TURNBUCKLES, ETC.



Fig. 1176

No.	Each	Diam. Pin Inches	Length Under Head Inches	Diam. Head Inches	Type Head
1	\$.25	$\frac{3}{16}$	1	$\frac{1}{4}$	Flat
2	.25	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{4}$	Flat
3	.28	$\frac{1}{4}$	$1\frac{1}{16}$	$\frac{3}{8}$	Flat
4	.30	$\frac{1}{4}$	$\frac{7}{8}$	$\frac{3}{8}$	Flat
5	.32	$\frac{1}{4}$	$1\frac{1}{2}$	$\frac{3}{8}$	Flat
6	.36	$\frac{1}{4}$	$1\frac{1}{8}$	$\frac{1}{2}$	Flat
7	.40	$\frac{3}{8}$	$1\frac{1}{8}$	$\frac{1}{2}$	Flat
8	.40	$\frac{3}{8}$	1	$\frac{1}{2}$	Round
9	.45	$\frac{3}{8}$	$1\frac{1}{4}$	$\frac{1}{2}$	Round
10	.50	$\frac{3}{8}$	$1\frac{3}{4}$	$\frac{1}{2}$	Flat
11	.55	$\frac{1}{2}$	1	$\frac{1}{2}$	Flat
12	.60	$\frac{1}{2}$	$2\frac{3}{8}$	$\frac{5}{8}$	Flat
13	.65	$\frac{1}{2}$	1	$\frac{5}{8}$	Flat
14	.65	$\frac{1}{2}$	$1\frac{1}{4}$	$\frac{5}{8}$	Flat
15	.70	$\frac{1}{2}$	$1\frac{1}{2}$	$\frac{5}{8}$	Flat



## Improved Tiller Rope Pulley

SWIVEL TYPE—WITH STRAP  
FORGED BRONZE—BAKELITE SHEAVE

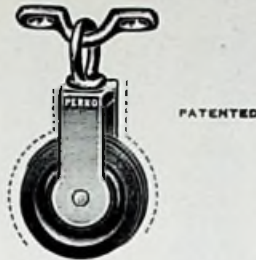


Fig. 585

Strength has been added but weight has been reduced. The bakelite sheave has a brass bushing for strength and smooth operation. The unique swivel eye arrangement is a patented feature.

Each	For Diam. Rope Inches	Length Overall Inches	Diam. Sheave Inches	Length Strap Inches	Weight Ounces
\$1.60	$\frac{5}{16}$	3 $\frac{3}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{8}$	3

## Tiller Rope Pulley

WITH STRAP—FORGED BRONZE



Fig. 579

For Rope Diam. Inches	Length Pulley Inches	Size Sheave Inches	Length Strap Inches	Weight Ounces
$\frac{1}{8}$	1 $\frac{3}{8}$	$\frac{3}{4} \times \frac{1}{16}$	1 $\frac{1}{8}$	3

Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
\$1.20	\$1.40	\$2.40

## Tiller Rope Guides

SIDE PATTERN—FORGED BRONZE



Fig. 594

Polished Bronze Each	Chromium Plated Each	For Rope Diam. Inches	Size Base Inches	Weight Oz.
\$1.05	\$1.80	$\frac{1}{16}$	$\frac{3}{4} \times 1 \frac{1}{16}$	1 $\frac{1}{2}$

## Tiller Rope Guides

GALVANIZED CAST IRON OR BRONZE



Fig. 102

No.	Galv. Iron Each	Plain Bronze Each	Polished Bronze Each	Chrom. Plated Each	For Diam. Rope Inches	Diam. Base Inches
1	\$.25	\$.50	\$.85	\$2.25	$\frac{1}{4}$	1 $\frac{3}{8}$
2	.35	.60	.95	2.40	$\frac{1}{8}$	1 $\frac{11}{16}$
3	.50	.70	1.25	2.75	$\frac{3}{8}$	1 $\frac{3}{4}$

## Tiller Rope Guides

BRONZE



Fig. 359

No.	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Size Hole Inches	Size Base Inches
1	\$.25	\$.45	\$1.00	$\frac{3}{8}$	1 $\frac{3}{8} \times \frac{3}{4}$
2	.40	.60	1.20	$\frac{1}{2}$	1 $\frac{1}{2} \times \frac{3}{8}$
3	.50	.70	1.40	$\frac{3}{8}$	1 $\frac{3}{4} \times 1 \frac{1}{4}$

No. 1 size is forged bronze.

## Tiller Rope Guides

GALVANIZED CAST IRON OR BRONZE  
OVAL PLATE



Fig. 593

Polished Bronze Each	Chromium Plated Each	For Rope Diam. Inches	Size Base Inches	Weight Ounces
\$1.10	\$1.85	$\frac{1}{16}$	$\frac{3}{8} \times 1 \frac{1}{2}$	2



Fig. 599

No.	Galv. Iron Each	Plain Bronze Each	Pol. Bronze Each	Chromium Plated Each	Size Hole Inches	Size Base Inches
1	\$.15	\$.25	\$.50	\$1.00	$\frac{3}{8}$	1 $\frac{3}{8} \times \frac{7}{8}$
2	.17	.30	.55	1.10	$\frac{1}{2}$	1 $\frac{1}{2} \times \frac{7}{8}$
3	.25	.40	.60	1.30	$\frac{3}{8}$	1 $\frac{3}{4} \times 1 \frac{1}{4}$

No. 1 size is forged bronze.

## Fast Eye Blocks

GALVANIZED MALLEABLE IRON OR 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	\$ .20	\$ .33	\$ .58	$\frac{3}{16}$	$\frac{3}{4} \times \frac{5}{16}$	$\frac{3}{16}$
3	.26	.39	.72	$\frac{1}{4}$	$1 \times \frac{3}{8}$	$\frac{1}{4}$
5	.39	.58	.98	$\frac{5}{16}$	$1\frac{1}{4} \times \frac{1}{2}$	$\frac{1}{4}$
7	.52	.72	1.17	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$	$\frac{3}{8}$
9	.65	1.05		$\frac{7}{16}$	$1\frac{3}{4} \times \frac{1}{2}$	$\frac{1}{2}$
11	.91	1.35		$\frac{1}{2}$	$2 \times \frac{3}{8}$	$\frac{5}{8}$
13	1.56			$\frac{5}{8}$	$2\frac{1}{2} \times \frac{3}{4}$	$1\frac{1}{8}$
15	2.27			$\frac{3}{4}$	$3 \times \frac{1}{2}$	$1\frac{3}{8}$

## 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 Diameter Inches	Weight Each Pounds
1	\$1.00	$1\frac{1}{2}$	$\frac{3}{16}$	$\frac{3}{16}$
3	1.05	$1\frac{5}{8}$	$\frac{1}{4}$	$\frac{1}{4}$
5	1.15	2	$\frac{5}{16}$	$\frac{5}{16}$
7	1.30	$2\frac{3}{8}$	$\frac{3}{8}$	$\frac{9}{16}$
9	1.70	3	$\frac{7}{16}$	$\frac{3}{8}$
11	2.30	$3\frac{1}{4}$	$\frac{1}{2}$	1
13	2.95	4	$\frac{5}{8}$	$2\frac{1}{4}$
15	4.25	$4\frac{3}{8}$	$\frac{3}{4}$	$2\frac{1}{2}$

Size of Sheave same as Fig. 43.

## 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	\$ .26	\$ .65	\$ .90	$\frac{3}{16}$	$\frac{3}{4} \times \frac{5}{16}$	$\frac{3}{16}$
4	.39	.90	1.30	$\frac{1}{4}$	$1 \times \frac{3}{8}$	$\frac{1}{4}$
6	.59	1.24	1.85	$\frac{5}{16}$	$1\frac{1}{4} \times \frac{1}{2}$	$\frac{3}{8}$
8	.72	1.45	2.60	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$	$\frac{5}{8}$
10	1.04			$\frac{7}{16}$	$1\frac{3}{4} \times \frac{1}{2}$	$\frac{3}{4}$
12	1.35			$\frac{1}{2}$	$2 \times \frac{3}{8}$	$1\frac{1}{4}$
14	2.15			$\frac{5}{8}$	$2\frac{1}{2} \times \frac{3}{4}$	$2\frac{1}{8}$
16	3.25			$\frac{3}{4}$	$3 \times \frac{1}{2}$	$2\frac{3}{4}$

## 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 Diameter Inches	Weight Each Pounds
2	\$1.15	$1\frac{1}{2}$	$\frac{3}{16}$	$\frac{1}{4}$
4	1.30	$1\frac{5}{8}$	$\frac{1}{4}$	$\frac{3}{8}$
6	1.50	2	$\frac{5}{16}$	$\frac{1}{2}$
8	1.65	$2\frac{3}{8}$	$\frac{3}{8}$	$\frac{7}{8}$
10	2.15	3	$\frac{7}{16}$	1
12	2.75	$3\frac{1}{4}$	$\frac{1}{2}$	$1\frac{1}{2}$
14	3.80	4	$\frac{5}{8}$	$2\frac{1}{2}$
16	5.25	$4\frac{3}{8}$	$\frac{3}{4}$	$3\frac{3}{4}$

Size of Sheave same as Fig. 51.



## Swivel Eye Blocks

GALVANIZED MALLEABLE IRON OR BRONZE

Single



Fig. 100

Size No.	For Diam. Rope Inches	Length Shell Inches	Diameter Sheave Inches	Weight Per Doz. in Lbs.
0	$\frac{1}{16}$	1	$\frac{1}{2}$	$\frac{1}{2}$
1	$\frac{1}{8}$	1 $\frac{1}{4}$	$\frac{3}{4}$	1 $\frac{1}{4}$
3	$\frac{1}{4}$	1 $\frac{3}{4}$	1	2
5	$\frac{5}{16}$	2	1 $\frac{1}{4}$	2 $\frac{7}{8}$
7	$\frac{3}{8}$	2 $\frac{1}{4}$	1 $\frac{1}{2}$	4 $\frac{1}{8}$

Size No.	Galvanized Iron Each	Plain Bronze Each	Polished Bronze Each
0	\$ .26	\$ .70	\$1.10
1	.33	.70	1.10
3	.46	.85	1.25
5	.58	1.15	1.65
7	.72	1.30	2.10

## Swivel Eye Blocks

GALVANIZED MALLEABLE IRON OR BRONZE

Double



Fig. 101

Size No.	For Diam. Rope Inches	Length Shell Inches	Diameter Sheave Inches	Weight Per Doz. in Lbs.
00	$\frac{1}{16}$	1	$\frac{1}{2}$	1 $\frac{1}{8}$
2	$\frac{1}{8}$	1 $\frac{1}{4}$	$\frac{3}{4}$	2 $\frac{1}{4}$
4	$\frac{1}{4}$	1 $\frac{3}{4}$	1	3 $\frac{3}{8}$
6	$\frac{5}{16}$	2	1 $\frac{1}{4}$	4 $\frac{1}{2}$
8	$\frac{3}{8}$	2 $\frac{1}{4}$	1 $\frac{1}{2}$	7

Size No.	Galvanized Iron Each	Plain Bronze Each	Polished Bronze Each
00	\$ .40	\$ .90	\$1.25
2	.45	1.00	1.35
4	.60	1.30	1.85
6	.70	2.55	3.00
8	1.20	3.25	4.25

## Heavy Steering Rope Pulleys

CAST BRONZE—PLAIN FOR WIRE ROPE

The sturdy construction answers the demand for a larger and stronger tiller rope pulley. The sheave pin is  $\frac{1}{4}$  inch diameter bronze rod.

SIDE PATTERN



Fig. 962

Plain Bronze Each	For Wire Rope Diameter Inches	Diameter Sheave Inches	Length of Plate Inches	Weight Pounds
\$14.00	$\frac{3}{8}$	6	9	5 $\frac{1}{2}$

UPRIGHT PATTERN

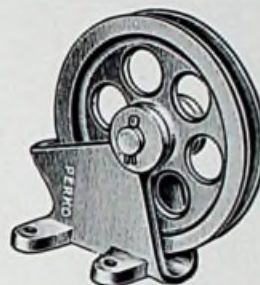


Fig. 963

Plain Bronze Each	For Wire Rope Diameter Inches	Diameter Sheave Inches	Height Overall Inches	Weight Pounds
\$14.00	$\frac{3}{8}$	6	7 $\frac{1}{2}$	5 $\frac{1}{2}$

## Side Pulleys

GALVANIZED CAST IRON OR BRONZE



Fig. 97

Size No.	Galv. Each	Pol. Bronze Each	Size Base Inches	Diam. Rope Inches	Weight Per Doz. in Lbs.
1	\$ .30	\$ .80	$\frac{3}{4}$ x2 $\frac{5}{16}$	$\frac{1}{4}$	1 $\frac{3}{8}$
2	.45	.90	$\frac{7}{8}$ x2 $\frac{11}{16}$	$\frac{5}{16}$	2
3	.55	1.15	1x3 $\frac{3}{8}$	$\frac{3}{8}$	3 $\frac{1}{4}$

## Blocks on Plates

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 107

Size No.	Galv. Each	Plain Bronze Each	Pol. Bronze Each	For Rope Diam. Inches	Style Block	Weight Per 100 in Lbs.
3	\$ .80	\$1.75	\$2.60	$\frac{1}{4}$	Swivel Eye	20
5	.90	2.00	2.95	$\frac{5}{16}$	Swivel Eye	35
7	1.30	2.30	3.40	$\frac{3}{8}$	Swivel Eye	66
9	1.55			$\frac{7}{16}$	Fast Eye	72



## Deck Blocks OPEN PATTERN GALVANIZED IRON OR BRONZE SINGLE

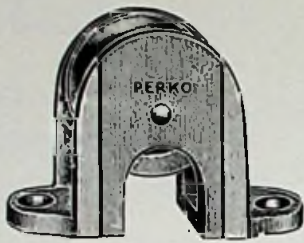


Fig. 87

Size No.	Mall. Iron Each	Cast Iron Each	Plain Bronze Each	Pol. Bronze Each	For Diam. Rope Inches	Size Sheave Inches
0	\$ .39	\$ .35	\$ .80	\$ 1.20	$\frac{1}{8}$	$1\frac{1}{4} \times \frac{3}{8}$
1	.59	.40	1.00	1.30	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$
3	.98	.65	1.65	2.60	$\frac{1}{2}$	$2 \times \frac{3}{8}$
5	1.65	1.20	3.25	4.00	$\frac{3}{8}$	$2\frac{1}{2} \times \frac{3}{4}$
7	2.50	1.95	4.50	6.00	$\frac{3}{4}$	$3 \times \frac{7}{8}$

Cast iron furnished unless otherwise specified.

## Deck Blocks OPEN PATTERN GALVANIZED IRON OR BRONZE DOUBLE

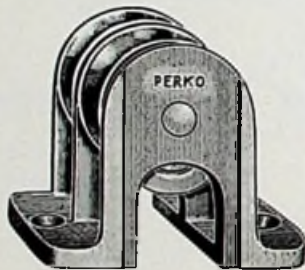


Fig. 88

Size No.	Mall. Iron Each	Cast Iron Each	Plain Bronze Each	Pol. Bronze Each	For Diam. Rope Inches	Size Sheave Inches
2	\$ .90	\$ .65	\$ 1.45	\$ 2.25	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$
4	1.65	1.25	3.00	3.90	$\frac{1}{2}$	$2 \times \frac{3}{8}$
6	2.95	2.30			$\frac{5}{8}$	$2\frac{1}{2} \times \frac{3}{4}$
8	3.95	3.25			$\frac{3}{4}$	$3 \times \frac{7}{8}$

Cast iron furnished unless otherwise specified.

## Cheek Blocks GALVANIZED MALLEABLE IRON OR BRONZE SINGLE



Fig. 95

Size No.	Galv. Each	Plain Bronze Each	Pol. Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Wgt. Lbs.
0	\$ .55	\$ .75	\$ 1.15	$\frac{1}{4}$	$1 \times \frac{3}{8}$	$\frac{1}{10}$
1	.70	.95	1.30	$\frac{1}{2}$	$1\frac{3}{8} \times \frac{1}{4}$	$\frac{1}{4}$
2	.80	1.10	1.65	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$	$\frac{3}{8}$
3	1.50	1.75	2.60	$\frac{1}{2}$	$2 \times \frac{3}{8}$	$\frac{3}{4}$
4	1.85	2.50	3.50	$\frac{5}{8}$	$2\frac{1}{2} \times \frac{3}{4}$	$1\frac{1}{4}$
5	3.00			$\frac{3}{4}$	$3 \times \frac{7}{8}$	2
6	5.20			$\frac{7}{8}$	$3\frac{1}{2} \times 1$	4

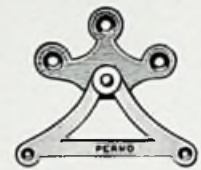
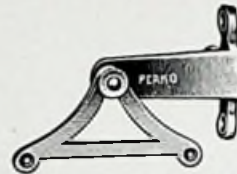
## Bell Chain Leaders CAST BRONZE—PLAIN



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	$\frac{1}{10}$	\$ 1.95	\$ 2.90	\$ 4.20	\$ 5.20
$3\frac{1}{2}$	$\frac{1}{8}$	3.55	5.20	6.50	9.00

## Bell Cranks CAST BRONZE—PLAIN



Upright Type—Fig. 910

Side Type—Fig. 911

No.	Upright Type Each	Side Type Each	Length of Crank Inches
1	\$ 1.60	\$ 1.45	3
2	1.95	1.75	$3\frac{1}{4}$
3	2.60	2.40	$3\frac{3}{4}$

## Brass Telegraph or Bell Chain

Links are stamped from heavy gauge brass, fastened together by brass rivets, which are finished flush with side of link. Furnished in any continuous length desired, complete with end links both ends.

Made to comply with U. S. Navy Specifications.



Fig. 275

Per Foot	Length of Links Inches	Thickness Overall Inches	Pitch Inches	Weight per Foot Ounces
\$ .85	$\frac{3}{4}$	$\frac{3}{16}$	$\frac{3}{8}$	$3\frac{1}{2}$

## Cheek Blocks GALVANIZED MALLEABLE IRON OR BRONZE DOUBLE



Fig. 96

Size No.	Galv. Each	Plain Bronze Each	Pol. Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Wgt. Lbs.
11	\$ 1.10	\$ 1.55	\$ 2.10	$\frac{1}{8}$	$1\frac{3}{8} \times \frac{1}{10}$	$\frac{1}{2}$
12	1.45	2.30	2.60	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$	$1\frac{1}{10}$
13	2.15	3.40	4.25	$\frac{1}{2}$	$2 \times \frac{3}{8}$	$1\frac{1}{2}$



## Deck Blocks

FOR WIRE ROPE  
GALVANIZED MALLEABLE IRON OR BRONZE

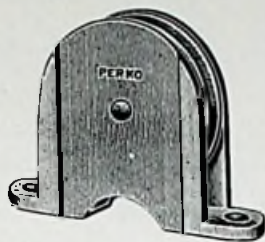


Fig. 139

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
1	\$ .80	\$1.50	$\frac{1}{4} - \frac{5}{16}$	$1\frac{1}{8} \times \frac{7}{16}$	$\frac{5}{8}$
2	1.40	2.70	$\frac{3}{8}$	$3 \times \frac{9}{16}$	$1\frac{3}{8}$
3	3.25	4.80	$\frac{7}{16}$	$4 \times \frac{5}{8}$	3
3 1/2	3.90		$\frac{1}{2}$	$4\frac{1}{2} \times \frac{3}{4}$	4 1/4
4	4.50		$\frac{3}{8}$	5 x 1	5 1/4
5	6.70		$\frac{3}{4}$	6 x 1	8 1/2

## Cheek Blocks

FOR WIRE ROPE  
GALVANIZED CAST IRON OR BRONZE



Fig. 140

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
1	\$ .75	\$1.55	$\frac{1}{4} - \frac{5}{16}$	$1\frac{1}{8} \times \frac{7}{16}$	$\frac{5}{8}$
2	1.20	2.80	$\frac{3}{8}$	$3 \times \frac{9}{16}$	$1\frac{3}{8}$
3	2.20	5.00	$\frac{7}{16}$	$4 \times \frac{5}{8}$	$2\frac{3}{4}$
3 1/2	2.80		$\frac{1}{2}$	$4\frac{1}{2} \times \frac{3}{4}$	4 1/4
4	3.45		$\frac{3}{8}$	$4 \times \frac{5}{8}$	5 1/4
5	6.00		$\frac{3}{4}$	6 x 1	11

## Wire Rope Pulleys

GALVANIZED MALLEABLE IRON OR BRONZE  
DOUBLE—SIDE PATTERN

## Wire Rope Pulleys

GALVANIZED MALLEABLE IRON OR BRONZE  
SINGLE—SIDE PATTERN



Fig. 194

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
1	\$ .90	\$1.95	$\frac{1}{16}$	$2\frac{1}{2} \times \frac{3}{8}$	$\frac{1}{2}$
2	1.30	2.60	$\frac{1}{4}$	$3\frac{1}{4} \times \frac{1}{2}$	$1\frac{1}{4}$
3	2.60	4.15	$\frac{5}{16} - \frac{3}{8}$	$4\frac{1}{2} \times \frac{1}{16}$	$2\frac{3}{8}$



Fig. 195

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
11	\$1.50	\$2.95	$\frac{1}{16}$	$2\frac{1}{2} \times \frac{3}{8}$	$1\frac{1}{8}$
12	2.25	3.90	$\frac{1}{4}$	$3\frac{1}{4} \times \frac{1}{2}$	2
13	4.15	5.85	$\frac{5}{16} \times \frac{3}{8}$	$4\frac{1}{2} \times \frac{1}{16}$	$4\frac{1}{4}$

## Wire Rope Pulleys

GALVANIZED MALLEABLE IRON OR BRONZE  
SINGLE—UPRIGHT PATTERN



Fig. 279

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
10	\$ .90	\$1.95	$\frac{1}{16}$	$2\frac{1}{2} \times \frac{3}{8}$	$\frac{5}{8}$
20	1.30	2.60	$\frac{1}{4}$	$3\frac{1}{4} \times \frac{1}{2}$	$1\frac{1}{2}$
30	2.60	4.15	$\frac{5}{16} - \frac{3}{8}$	$4\frac{1}{2} \times \frac{1}{16}$	$2\frac{1}{2}$

## Wire Rope Pulleys

GALVANIZED MALLEABLE IRON OR BRONZE  
DOUBLE—UPRIGHT PATTERN



Fig. 280

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
110	\$1.50	\$2.95	$\frac{1}{16}$	$2\frac{1}{2} \times \frac{3}{8}$	$1\frac{1}{8}$
120	2.25	3.90	$\frac{1}{4}$	$3\frac{1}{4} \times \frac{1}{2}$	2
130	4.15	5.85	$\frac{5}{16} - \frac{3}{8}$	$4\frac{1}{2} \times \frac{1}{16}$	$4\frac{1}{4}$



## BRONZE BLOCKS FOR SAIL BOATS

DROP FORGED BRONZE SHELLS AND SHEAVES—PLAIN BUSHED—INTERCHANGEABLE FITTINGS

Drop forged bronze shells and sheaves give great tensile strength, light weight, free turning sheaves and fine smooth finish in plain or polished, free from sand holes or rough inside surfaces.

### Block Only With Removable Screw Pin



Fig. 850

		NO FITTINGS		For Diam. Rope Inches	Weight Ounces
Size No.	Plain Each	Polished Each	Length Overall Inches		
0	\$1.60	\$1.75		$\frac{1}{4} - \frac{1}{8}$	$3\frac{1}{2}$
1	2.10	2.35		$\frac{3}{8}$	$4\frac{1}{2}$
2	2.95	3.30		$\frac{1}{2}$	10

### Upset Front Shackle Block



Fig. 852

Size No.	Complete		Shackle with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$2.85	\$3.00	\$1.05	\$1.20
1	3.35	3.70	1.20	1.35
2	4.50	5.00	1.45	1.65

For dimensions and other data, see Fig. 850.

For shackles only, see Fig. 893.

### Front Shackle Block



Fig. 851

Size No.	Complete		Shackle with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$2.85	\$3.00	\$1.05	\$1.20
1	3.35	3.70	1.20	1.35
2	4.50	5.00	1.45	1.65

For dimensions and other data, see Fig. 850.

For shackles only, see Fig. 893.

### Upset Side Shackle Block



Fig. 855

Size No.	Complete		Shackle with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$2.85	\$3.00	\$1.05	\$1.20
1	3.35	3.70	1.20	1.35
2	4.50	5.00	1.45	1.65

For dimensions and other data, see Fig. 850.

For shackles only, see Fig. 893.

### Side Shackle Block



Fig. 854

Size No.	Complete		Shackle with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$2.85	\$3.00	\$1.05	\$1.20
1	3.35	3.70	1.20	1.35
2	4.50	5.00	1.45	1.65

For dimensions and other data, see Fig. 850.

For shackles only, see Fig. 893.

### Swivel Deck Leader

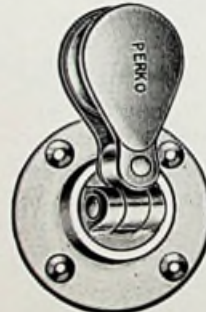


Fig. 864

Size No.	Complete		Base with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$5.00	\$5.50	\$3.40	\$3.75
1	5.90	6.50	3.65	4.15
2	8.20	9.00	5.00	5.60

Size No.	Diam. Base Inches	Weight Pounds
0	$\frac{1}{4}$	$\frac{1}{2}$
1	$\frac{2}{4}$	$\frac{3}{4}$
2	$\frac{3}{4}$	$1\frac{1}{2}$

### Block With Eye Strap



Fig. 861

Size No.	Complete		Strap with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$2.85	\$3.00	\$1.05	\$1.20
1	3.35	3.70	1.20	1.35
2	4.50	5.00	1.45	1.65

For dimensions and other data, see Fig. 850.

For straps only, see Fig. 881.

### Lightweight Block



Fig. 432

No.	WITH FRONT SHACKLE		For Diam. Rope Inches	Weight Ounces
	Plain Each	Polished Each		
0	\$1.75		$\frac{1}{4} - \frac{1}{8}$	$3\frac{1}{2}$
1	2.50		$\frac{3}{8}$	4

With becket, add \$ .50 each.

For dimensions, see Fig. 850.

For shackles only, see Fig. 893.



## Bullet Blocks

FOR JIB SHEETS AND LEADERS  
DROP FORGED BRONZE



Fig. 869

No.	Dull Finish Each	Polished Each	For Rope Diam. Inches	Size Sheave Inches	Weight Ounces
0	\$1.05	\$1.20	$\frac{1}{4}$	$\frac{3}{4} \times \frac{1}{4}$	2
1	1.35	1.50	$\frac{3}{8}$	$\frac{7}{8} \times \frac{1}{2}$	2 1/2
2	1.70	1.85	$\frac{1}{2}$	$1 \frac{1}{8} \times \frac{3}{8}$	5

## Swivel Eye Bullet Blocks

DROP FORGED BRONZE



Fig. 934

With unique patented swivel arrangement, no wear on rope.  
For jib sheets or halyards on small sail boats.

Dull Finish Each	Polished Each	Length Shell Inches	Size Sheave Inches	For Diam. Rope Inches	Weight Ounces
\$1.50	\$2.00	$1 \frac{3}{8}$	$\frac{3}{4} \times \frac{3}{8}$	$\frac{1}{8}$	2 1/2

## Jib Halyard Blocks on Strap

BRONZE



Fig. 899

No.	For Rope Diam. Inches	Size Sheave Inches	Length Strap Inches	Weight Ounces
0	$\frac{1}{8}$	$\frac{3}{4} \times \frac{1}{8}$	2 1/2	3 1/2
1	$\frac{3}{8}$	$\frac{7}{8} \times \frac{1}{2}$	2 1/2	4

No.	Plain Each
0	\$1.65
1	1.95

## Swivel Eye Block on Plate

BRONZE

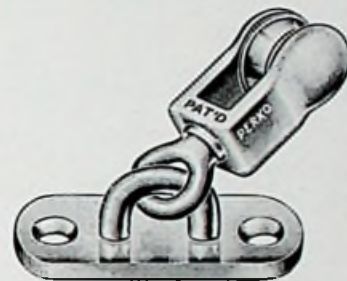


Fig. 935

This is our swivel eye bullet block mounted on brass plate, for deck leads.

Plain Each	Length Plate Inches	Width Plate Inches	Weight Complete Ounces
\$2.00	2 1/4	3/4	3 1/2

## Centerboard Blocks

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 827

No.	Galvanized Each	Plain Bronze Each	Size Rope Inches	Size Sheave Inches
1	\$1.00	\$1.80	$\frac{3}{8}$	$1 \frac{1}{2} \times \frac{1}{2}$
2	1.80	3.00	$\frac{1}{2}$	$2 \times \frac{3}{8}$

## Swivel Eye Block on Slide

BRONZE

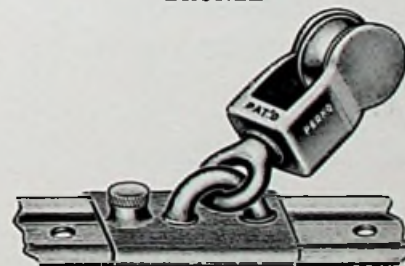


Fig. 936

Our swivel eye bullet block mounted on cast bronze slide for quick and easy adjustment of jib sheet lead. Slide has large head thumb screw for fastening in position with fingers.

Furnished complete with 24 inches of  $\frac{3}{8}$  inch nickel silver track.

Plain Each	Length Slide Inches	Width Slide Inches	Weight Complete Ounces
\$3.50	1 3/4	1	7 1/2

## Bronze Block Shackles

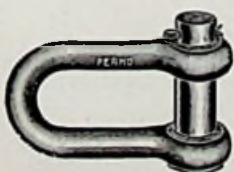


Fig. 893

No.	Size Inches	Plain Each	Polished Each
0	$\frac{1}{8}$	\$.58	\$.78
1	$\frac{1}{4}$	.65	.85
2	$\frac{3}{8}$	.78	1.10

## Eye Plates CAST BRONZE



Fig. 880

No.	Plain Each	Length Plate Inches	Opening of Eye Inches	Stock in Eye Inches
1	\$1.00	3 1/8	1 1/8 x 3/4	1 1/8
2	1.35	3 1/2	1 1/2 x 7/8	1 1/2
3	1.50	4 1/8	1 7/8 x 1 1/8	1 7/8

## Halyard Fairleaders POLISHED BRONZE



Fig. 580

Designed for main halyards on small boats this fitting has many other uses. Will not chafe rope.

Polished Each	Length Inches	Width Inches	For Diam. Rope Inches	Weight Ounces
\$ .70	2 1/4	3/4	3/8	2 1/2

## Eye Straps DROP FORGED BRONZE



Fig. 881

No.	Plain Each	Polished Each	Length Inches	Size Eye Inches	Stock in Eye Inches
0	\$ .30	\$ .45	2	1/8	3/16
1	.35	.55	2 1/4	3/8	1/4
2	.40	.60	2 3/4	1/2	1/8
3	.55	.80	3 1/8	3/8	1/8

## Single Flare Lip Leaders CAST BRONZE



Fig. 764

No.	Plain Each	Polished Each	Small Opening Inches	Weight Ounces
1	\$ .35	\$ .60	1/2	1 1/2
2	.60	1.15	3/8	3

## Deck Straps CAST BRONZE



Fig. 882

No.	Plain Each	Polished Each	Length Inches	Size Eye Inches	Stock in Eye Inches
1	\$ .60	\$ .80	3 1/2	1/2	5/16
2	.80	1.05	4 1/4	5/8	3/8
3	1.00	1.30	4 3/4	3/4	1/2

## Double Flare Lip Leaders CAST BRONZE



Fig. 889

No.	Plain Each	Polished Each	Opening Inches	Weight Ounces
0	\$ .35	\$ .60	3/8	3/4
1	.45	.90	1/2	1
2	.60	1.15	5/8	1 3/4

## Inclinometer

CHROMIUM PLATED



Fig. 29

Instantly indicates the degree of heel. A good feature for sailboat owners and an attractive addition to a sailboat's equipment.

Made of zinc alloy and finished in chromium plate, highly polished.

Complete with chromium plated screws.

Each	Width Inches	Height Inches	Weight Ounces
\$2.75	5	3	4

## Adjustable Jib Sheet Leaders CAST BRONZE



Fig. 1114

One solid casting with large head thumb screw for fastening with fingers. Furnished complete with 24 inches of 5/8 inch nickel silver track.

Plain Each	Length Inches	Size Eye Inches	Complete Weight Ounces
\$1.60	17 1/8	3/4 x 3/8	6





**Automatic Jam Cleats**  
CAST BRONZE—POLISHED

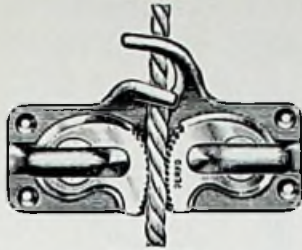


Fig. 895

No.	Each	For Rope Inches	Size Base Inches	Weight Ounces
1	\$4.75	1/4 - 1/2	3 1/2 x 1 1/2	10
2	8.00	3/8 - 1/2	5 1/8 x 1 3/4	16

**Improved Jam Cleat**  
CAST BRONZE



Fig. 1190

Something new in a jam cleat that really jams and holds.

Polished Each	Length Inches	For Rope Inches	Weight Ounces
\$2.00	4	up to 1/4	4

**Racing Jam Cleats**  
CAST BRONZE



Fig. 762

No.	Polished Each	Length Inches	For Size Rope Inches	Weight Ounces
1	\$3.25	3 1/2	1/4	5
2	3.50	4	3/8	8
3	3.75	6	1/2	18

**Double Jam Cleats**  
CAST BRONZE—POLISHED



Fig. 1030

No.	Each	Overall Length Inches	Width Inches	Weight Ounces
1	\$1.00	4	1/2	4
2	1.25	5	3/8	6

**Roller Jam Cleats**  
CAST BRONZE



Fig. 894

No.	Polished Each	For Diam. Rope Inches	Extreme Length Inches	Weight Ounces
1	\$2.25	1/8 to 1/4	4	4
2	3.00	1/4 to 3/8	5 1/4	8

**Sheet Snubbing Winches**  
CAST BRONZE—POLISHED



Fig. 937

A one way action winch which greatly reduces the strain of hauling on sheets or halyards.

Action of head is clockwise only for hauling in. But same is carefully machined and highly polished to allow free running of sheet when let out.

No.	Polished Bronze Each	Chromium Plated Each	Height Inches	Diam. Drum Inches	Diam. Base Inches	Weight Pounds.
0	\$6.25	\$9.25	2 1/8	1	2 1/8	1
01	7.40	10.40	2 3/4	1 1/4	2 1/8	1 3/4

**Bronze Wire Rope Sockets**

Eliminating the necessity of splicing wire rigging, especially the difficult splicing of stainless steel.

While lead is commonly used when socketing the wire we recommend the use of zinc.

**CLOSED TYPE**



Fig. 756

No.	Plain Bronze Each	Diam. Wire Inches	Width Inside Inches	Length Overall Inches	Weight Ounces
00	\$ .55	1/8	3/8	1 3/4	1
C	.55	3/32	3/8	1 3/4	1
1	.55	1/8	3/8	1 3/4	1
2	.70	1/4	1/2	2 1/4	2
3	.95	1/4	5/8	2 3/4	3
4	1.20	5/16	3/4	3	4 1/2
5	1.65	3/8	1	3 1/4	8

**OPEN TYPE**



Fig. 757

No.	Plain Bronze Each	Diam. Wire Inches	Jaw Opening Inches	Diam. Pin Inches	Length Overall Inches	Weight Ounces
9	\$ .80	1/8	1/4	1/4	1 3/4	1
10	.80	3/32	1/4	1/4	1 3/4	1
11	.80	1/8	1/4	1/4	1 3/4	1
12	1.05	3/16	1/4	1/4	2 1/4	2 1/2
13	1.35	1/4	3/8	3/8	2 3/4	3 1/2
14	1.80	5/16	1/2	1/2	3 1/4	5
15	2.40	3/8	5/8	3/8	3 1/2	9



## Bronze Goosenecks

CAST BRONZE—PLAIN



Fig. 883

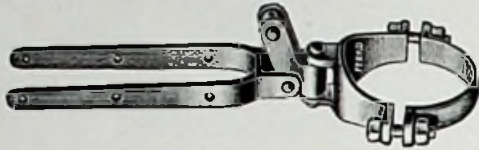


Fig. 884

Boom straps are measured from outside to outside of straps, as they are mortised into the side of the boom so as to be flush with the boom surface.

No.	Fig. 883 Each	Fig. 884 Each	Mast Diam. Inches	Diam. Boom End Inches	Fig. 883 Weight Pounds
1	\$10.00	\$12.00	3 to 3 1/2	1 3/4	2 3/4
2	10.50	12.50	4 to 4 1/2	2 1/4	3 1/2

## Bronze Goosenecks

WITH FLAT PLATE FOR SQUARE MASTS  
MANGANESE BRONZE—PLAIN

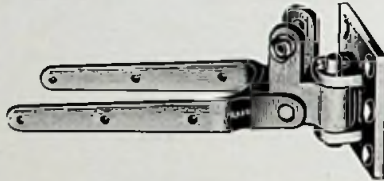


Fig. 1034

The trend in design for masts is changing from the old style round mast to the modern square, rectangular or T shaped mast, hence a gooseneck with a flat plate is necessary.

No.	Each	Width of Plate Inches	Length of Plate Inches	Diameter Boom end Inches	Weight Pounds
1	\$10.00	2	3	1 3/4	2 3/4
2	10.50	3	4	2 1/4	3 1/2

## "Snipe" Goosenecks

BRASS STRAPS—BRONZE MAST PLATE



With Plate for Square Mast  
Fig. 888

With Plate for Round Mast  
Fig. 890

Plain Brass Each	Plain Plates Only Each	Width Plate Inches	For Boom Inches	Weight Each Pounds
\$3.75	\$1.50	1 1/2	1 to 1 1/2	1

When ordering, specify whether for square or round mast.

## Sliding Gooseneck

NATIONAL ONE DESIGN CLASS  
BRONZE

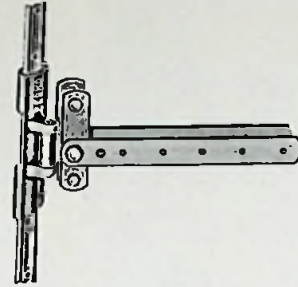


Fig. 452

Furnished without track.

Slide is cast bronze, boom straps are wrought brass. This fitting is as light in weight as possible while retaining all necessary strength.

Plain Each	Width Between Straps Inches	Length Inside Straps Inches	For Mast Track Inches	Weight Each Pounds
\$4.00	3/4	6	3/8	3/4

## Sliding Gooseneck

BRONZE

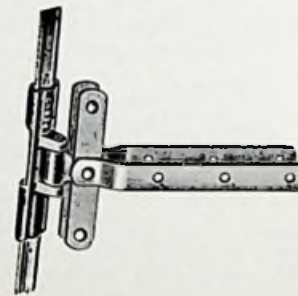


Fig. 592

Furnished without track.

Slide is cast bronze, boom straps are wrought brass. Straps can be adjusted for booms smaller than 2 inch diameter.

Plain Each	Width Between Straps Inches	Length Inside Straps Inches	For Mast Track Inches	Weight Each Pounds
\$4.50	1 3/4	6	3/8	1

## Small Boat Goosenecks

CAST BRONZE

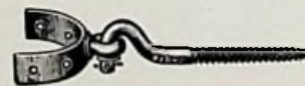


Fig. 658

A good strong fitting made of high grade bronze but low priced for the pocketbook of the small boat owner.

Plain Each	For Diam. Mast Inches	Length of Screw Inches	Diam. of Screw Inches	Weight Ounces
\$2.50	2 3/4	3 3/4	3/8	6





### Boom Travelers

CAST BRONZE  
FOR MAIN SHEET BLOCKS ON BOOMS  
FOR RECTANGULAR BOOMS



Fig. 1112

Fastened by one rivet and two screws.

Plain Each	For Thickness Boom Inches	Weight Ounces
\$ .65	1 1/2 to 1 3/4	2 1/2

FOR T BOOMS



Fig. 1113

Fastened with two rivets.

Plain Each	For Thickness Boom Inches	Weight Ounces
\$ .50	3/4 to 1	1 1/2

### Boom Travelers

CAST BRONZE—FOR ROUND BOOMS



Fig. 878

Diam. Boom	Plain Each	Width of Plate Inches	Weight Ounces
2	\$1.50	1 1/4	3
2 1/2	1.60	1 1/2	4
3	1.80	1 3/8	7

### Snipe Travelers

GALVANIZED IRON OR BRASS

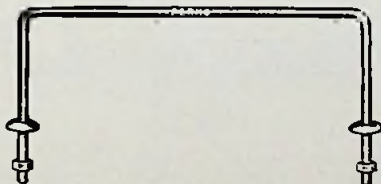


Fig. 271

Galv. Each	Plain Brass Each	Size Inches	Height Above Deck Inches	Weight Pounds
\$1.50	\$2.25	3/8 x 1 1/8	6	1 1/2

### Clew Outhaul

CAST BRONZE—PLAIN

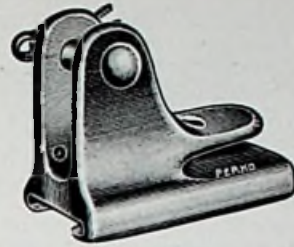


Fig. 1047

Each	For Track Inches	Jaw Opening Inches	Length Inches	Height Inches	Weight Ounces
\$1.75	3/8	3/8	1 3/4	1 1/2	3 1/2

### Self Locking Clew Outhaul

CAST BRONZE  
INSTANT RELEASE—LIGHTWEIGHT  
FOR SMALL BOATS

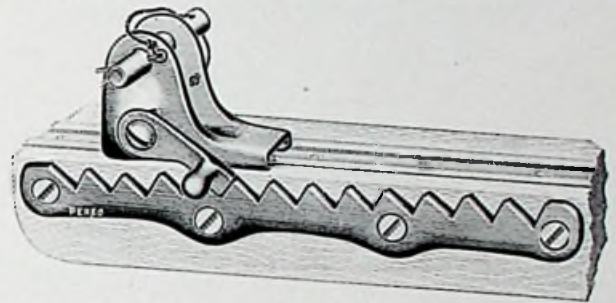


Fig. 817

Grab the pin, haul out as far as necessary and it automatically locks in place.

Can be released instantly by raising the pawl. The pin is made extra long for grasping.

Plain Per Set	Ratchet Only Each	For Track Inches	Length Ratchet Inches	Length Pin Inches	Weight Per Set Ounces
\$4.50	\$2.00	3/8	10	2 1/2	10

### Snipe Centerboards

GALVANIZED IRON

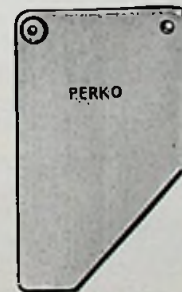


Fig. 134

Each	Size Inches	Weight Pounds
\$13.00	36 x 21 x 1 1/2	32



## Everdur Rigging Turnbuckles

ALL EVERDUR BRONZE  
S. A. E. THREADS—HEXAGON BODY  
LIGHTWEIGHT—GREAT STRENGTH



Fig. 917

We believe this to be the strongest bronze turnbuckle of its size manufactured.

The use of Everdur bronze enabled us to produce a very strong lightweight turnbuckle for small boats.  $\frac{1}{4}$  inch, weight 3  $\frac{1}{2}$  oz. Approx. strength 2,500 lbs.  $\frac{1}{2}$  inch, weight 5 oz. Approx. strength 5,000 lbs.

Size Thread Inches	Plain Each	Length Pin to Pin		Jaw Opening Inches
		Open Inches	Closed Inches	
$\frac{1}{4}$	\$2.50	7 $\frac{1}{2}$	5 $\frac{1}{8}$	$\frac{1}{8}$
$\frac{1}{2}$	3.25	9 $\frac{1}{2}$	6	$\frac{1}{4}$

With check nuts, add \$ .25 to each turnbuckle.

## Bronze Rigging Turnbuckles

DROP FORGED—WELDLESS  
S. A. E. THREADS



Fig. 459

These are drop forged from special high strength solid bronze bars giving unusual strength as shown in table below.

Size Inches	Plain Each	With Two Check Nuts Add	For Diam. Wire Rope Inches	Weight Each Pounds
$\frac{1}{4}$	\$2.75	\$ .25	$\frac{1}{8}$	$\frac{1}{4}$
$\frac{3}{16}$	3.50	.25	$\frac{3}{16}$	$\frac{3}{8}$
$\frac{3}{8}$	4.75	.30	$\frac{1}{4}$	$\frac{3}{4}$
$\frac{1}{2}$	6.75	.45	$\frac{3}{8}$	1 $\frac{1}{2}$
$\frac{5}{8}$	8.75	.45	$\frac{1}{2}$	2 $\frac{1}{2}$

$\frac{1}{4}$  inch size is cast manganese bronze.

Size Inches	Jaw Opening Inches	Diam. Pin Inches	Length Center to Center of Pins		Ultimate Strength Pounds
			Extended Inches	Closed Inches	
$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	8 $\frac{3}{8}$	6 $\frac{1}{8}$	2300
$\frac{3}{16}$	$\frac{3}{16}$	$\frac{3}{16}$	10 $\frac{3}{8}$	7 $\frac{1}{4}$	4200
$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	12 $\frac{1}{4}$	8 $\frac{1}{2}$	6900
$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	14 $\frac{1}{2}$	10 $\frac{1}{4}$	11000
$\frac{5}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	17	12	18000

## Combination Release Hook and Turnbuckle

BRONZE



Fig. 1193

Plain Each	Size Thread Inches	Length Closed Inches	Opening in Jaw Inches	Weight Ounces
\$4.25	$\frac{1}{8}$	5	$\frac{1}{4}$	6

## Small Boat Chain Plates

CAST BRONZE



Fig. 629

Plain Each	Length Inches	Thickness Inches	Weight Ounces
\$1.00	6	$\frac{1}{4}$	7

## "Snipe" Chain Plates

BRASS



Fig. 143

Plain Each	Polished Each	Size Inches	Weight Ounces
\$1.10	\$1.50	10 $\frac{1}{2}$ x 1 x $\frac{1}{8}$	6

## Chain Plates

GALVANIZED DROP FORGED STEEL OR BRONZE

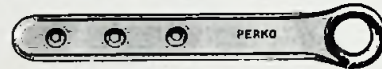


Fig. 569

Length Under Eye Inches	Galv. Each	Plain Bronze Each	Size of Plate Inches
4	\$ .40	\$1.70	$\frac{3}{4}$ x $\frac{3}{16}$
6	.50	2.15	1 x $\frac{1}{16}$
8	.65	2.60	1 $\frac{1}{8}$ x $\frac{1}{4}$
10	1.30		1 $\frac{1}{8}$ x $\frac{5}{16}$
12	1.45		1 $\frac{3}{16}$ x $\frac{5}{16}$
14	1.75		1 $\frac{3}{16}$ x $\frac{3}{4}$
16	2.50		1 $\frac{13}{16}$ x $\frac{5}{16}$
18	2.60		1 $\frac{13}{16}$ x $\frac{3}{4}$
20	3.60		1 $\frac{13}{16}$ x $\frac{3}{4}$

## Foot Rope Plates

CAST BRONZE

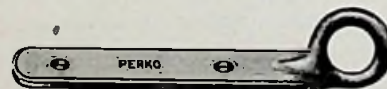


Fig. 568

Length Under Eye Inches	Galv. Each	Plain Bronze Each	Size Plate Inches	Inside Diam. Eye Inches	Diam. Metal in Eye Inches	Weight Pounds
4	\$ .65	\$1.70	$\frac{7}{8}$ x $\frac{3}{16}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{3}{8}$
5	.75	1.95	1 x $\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{16}$	$\frac{1}{2}$
6	.95	2.25	1 x $\frac{1}{4}$	$\frac{7}{8}$	$\frac{1}{16}$	$\frac{3}{4}$



## Mast Shroud Tangs

CAST BRONZE—PLAIN



Fig. 387

For the mast shroud of small sail boats. Drilled for fastening by rivet and screws.

Each	For Wire Inches	Length Inches	Width Inches	Weight Ounces
\$ .75	$\frac{1}{8}$ - $\frac{3}{16}$	4	$\frac{7}{8}$	2 1/2

## "Snipe" Stay Tangs

ALL BRASS



SINGLE  
Fig. 47



DOUBLE  
Fig. 57

Commonly used for attaching standing rigging to mast on snipe and similar classes of sail boats.

Fig. No.	Plain Brass Each	For Diam. Rope Inches	Diam. Straps Inches	Diam. Bolt Inches	For Wood Thick-ness Inches	Wt. Each Lbs.
47	\$ .85	$\frac{3}{16}$	$\frac{3}{4} \times 4$	$\frac{1}{4}$	2	$\frac{1}{8}$
57	1.40	$\frac{3}{16}$	$\frac{3}{4} \times 4$	$\frac{1}{4}$	2 1/8	$\frac{1}{4}$

## Rigging Cleats

CAST BRONZE—PLAIN



Fig. 879

For Diam. Mast Inches	Each	Size Overall Inches	Weight Ounces
2 1/2	\$ .65	2 1/2 x 1 1/4	2 1/2
3	.75	3 3/8 x 1 5/8	4
4	1.00	4 x 1 3/8	5

## Belaying Pins

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 366

Diam. Shank Inches	Galv. Each	Polished Bronze Each	Length Head Inches	Extreme Length Inches	Weight Each Pounds
$\frac{3}{8}$	\$ .60	\$2.40	3	8	$\frac{3}{8}$
$\frac{1}{2}$	1.00	3.00	3 5/8	9 1/2	$\frac{3}{4}$
$\frac{3}{4}$	1.25	4.00	3 3/4	10 1/4	1
$\frac{1}{4}$	1.50	5.20	4 1/4	11	1 3/4

## Bronze Eye Bands

CAST BRONZE—4 EYE



Fig. 253

Inside Diam. Inches	Plain Bronze Inches	Width Inches	Diam. Holes Inches	Weight Pounds
1 1/2	\$1.85	$\frac{3}{4}$	$\frac{1}{4}$	$\frac{1}{2}$
1 3/4	1.95	$\frac{3}{4}$	$\frac{3}{16}$	$\frac{3}{8}$
2	2.00	$\frac{3}{4}$	$\frac{1}{4}$	$\frac{3}{4}$
2 1/4	2.15	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{7}{8}$
2 1/2	2.25	$\frac{3}{4}$	$\frac{3}{8}$	1

## Galvanized Eye Bands

FORGED STEEL—HOT GALVANIZED



Fig. 426

Small sizes up to 2 1/2" diameter have bands  $\frac{3}{8}$ " thick, larger sizes have bands  $\frac{1}{2}$ " thick.

All sizes have bands 1 1/4" wide, all eyes are of  $\frac{3}{8}$ " stock with  $\frac{1}{16}$ " inside diameter.

Inside Diam. Inches	1 Eye Each	2 Eye Each	3 Eye Each	4 Eye Each
1 1/4	\$1.50	\$1.75	\$2.10	\$2.40
1 1/2	1.55	1.85	2.20	2.55
1 3/4	1.70	2.00	2.30	2.65
2	1.75	2.10	2.40	2.75
2 1/4	1.90	2.25	2.60	2.90
2 1/2	2.10	2.40	2.75	3.10
3	2.20	2.55	2.85	3.20
3 1/2	2.75	3.10	3.40	3.75
4	3.10	3.40	3.75	4.10
4 1/2	3.40	3.75	4.10	4.40
5	3.75	4.10	4.40	4.75
6	5.00	5.30	5.60	6.00

Special sizes made to order, price on application.

## Marconi Headboards

ALUMINUM ALLOY



Fig. 462

Headboards improve the set of the sail and are almost indispensable on Marconi Rigs.

No.	Each	Measurements Inches	Weight Ounces	For Class Boat
0	\$1.80	3 7/8 x 3 3/8	3	Star
1	2.25	4 1/4 x 3 7/8	5	Atlantic
2	3.25	5 1/2 x 5 1/4	7	6 Meter



## Stemhead Plate CAST BRONZE—STREAMLINED



Fig. 343

Angle is 70 degrees.

Length Straps Inches	Extreme Width Inches	Diam. Center Hole Inches	Diam. Forward Hole Inches	Weight Ounces
3 3/8	1	1/4	3/4	8
Plain Bronze Each		Polished Bronze Each		Chromium Plated Each
\$1.50		\$2.25		\$3.50

## Head and Jibstay Fittings CAST BRONZE—PLAIN



Fig. 1032

No.	Without Shackle Each	With Shackle Each	Length Inches	Width Inches	Number of Holes	Weight Ounces
1	\$2.25	\$3.00	5	1 1/2	5	12
2	3.25	4.00	7 3/4	1 3/4	8	28

## Bob Stay Straps CAST BRONZE



Fig. 303

No.	Plain Bronze Each	Pol. Bronze Each	Chrom. Plated Each	Metal in Eye Inches	Length Straps Inches	I. D. Eye Inches	Wt. Ozs.
1	\$.55	\$.90	\$1.50	3/8	1 3/4	3/4	3 1/2
2	.85	1.30	1.90	1/2	2 5/8	3/8	5

## Backstay Levers CAST BRONZE

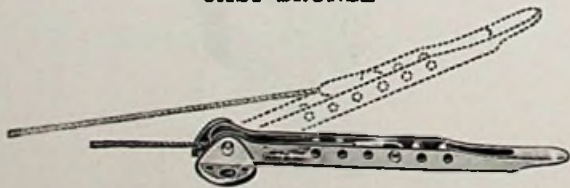


Fig. 1098

For quick release of backstay this fitting can't be beat. Turnbuckles are unnecessary. Complete with socket for 1/8 inch rigging. A set consists of fittings for port and starboard. Illustration shows 1/2 set.

Plain Per Set	Length Inches	Base Inches	For Rigging Inches	Weight Pounds
\$10.00	12 1/4	3 1/4 x 2	up to 1/8	1 1/2

## Wind Pennants

ADJUSTABLE COUNTERBALANCE  
ALUMINUM PENNANT—BRASS STANDARD

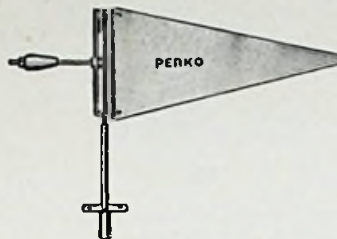


Fig. 435

Pennant swings on a needle point pivot and has an adjustable counterbalance should the weight of the pennant change from application of paint or attachments of any kind.

Perfect balance and needle point bearing makes this pennant instantly responsive to the lightest of winds.

FURNISHED IN PAINTED FINISH,  
EITHER RED OR BLUE

For Mast 1 Inch Diam. at Top, 1/8 Hole

No.	Each	Size of Pennant Inches	Height Overall Inches	Weight Ounces
1	\$3.25	6 1/2 x 3	6 1/2	2 1/2
2	3.75	9 1/2 x 4 1/2	7 3/4	4

## Improved Wind Pennants ADJUSTABLE COUNTERBALANCE

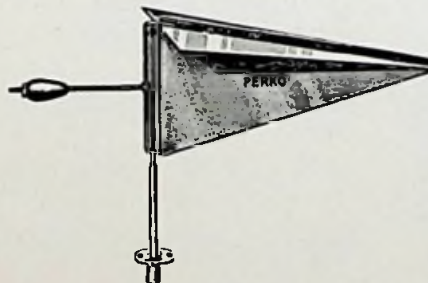


Fig. 837

This is the same as our popular Fig. 435 wind pennant improved by the addition of a horizontal vane attached to the regular vertical vane permitting a more distinct view when directly below the pennant. The horizontal vane is detachable if not required.

Furnished in painted finish, either red or blue.

No.	Complete Each	Size of Pennant Inches	Height Overall Inches	Weight Ounces
5	\$3.75	6 1/2 x 3	6 1/2	3
6	4.50	9 1/4 x 4 1/2	7 3/4	5



## Mast Track and Slides

NICKEL SILVER

Slide

Track



Fig. 98

Fig. 99

Slides Fig. 98			Track Fig. 99		
For Track Inches	Each	Weight Per 100 In Lbs.	Size Inches	Per Foot	Weight 100 Feet in Lbs.
5/8	\$ .12	2 1/4	5/8	\$ .30	14 1/2
3/4	.20	2 3/4	3/4	.40	23

Slides will fit any make of track of corresponding design and size.

Stock lengths of track are 8, 10 and 12 feet. All orders will be filled with lengths available to make up total number of feet ordered, unless specified otherwise.

## New Masthead Sheave

BAKELITE WITH BRASS BUSHING  
LIGHTWEIGHT



Fig. 919

Weight at the peak of the mast is a very important factor. This sheave was designed accordingly, light but very strong. The brass bushing assures smooth action and minimum wear.

Each	Diam. Inches	For Diam. Rope Inches	Thickness Inches	Diam. Bearing Inches	Weight Ounces
\$ .50	1 1/4	1 1/8	1 1/10	1/4	3/4

## Mast Hoops

GALVANIZED WROUGHT IRON



Fig. 849

Inside Diam. Inches	Diam. Metal Inches	Per 100 In Lbs.	Weight Per 100 In Lbs.
2	1/4	\$ 9.00	10 1/2
2 1/2	1/4	12.00	12 1/2
3	1/4	13.00	15
3 1/2	1/4	17.00	17
4	1/4	20.00	20

Measure in clear, special sizes made to order.

## Masthead Sheaves

FOR MANILA ROPE  
CAST BRONZE—PLAIN BEARING



Fig. 892

Diam. Inches	Each	For Diam. Rope Inches	Thickness Inches	Diam. Bearing Inches	Weight Ounces
1 3/4	\$ .55	1 1/8	1 1/10	1/4	2 1/2
2	.60	1 3/8	1 1/10	3/8	3 1/2
2 1/4	.90	3/8	1/2	3/8	5 1/2

## Jib Rings

GALVANIZED WROUGHT IRON



Fig. 897

Diam. Metal Inches	Inside Diam. Inches	Each	Diam. Metal Inches	Inside Diam. Inches	Each
1 1/8	1 1/2	\$ .15	1/2	3	\$ .45
1 1/4	2	.16	1/2	3 1/2	.50
1 3/8	2	.20	1/2	4	.60
1 3/8	2 1/2	.26	1/2	5	.65
1 3/8	3	.32	1/2	6	.70
1 3/8	3 1/2	.40			

## Masthead Trucks

LIGNUMVITAE—TWO SHEAVE



Fig. 891

Diam. Inches	Two Sheaves Each	Thickness Inches	Diam. Bore Inches	For Diam. Halyard Inches
3	2.10	1	3/8	1/4
3 1/2	2.75	1 1/8	1	1/4
4	3.30	1 1/4	1 1/8	1/4
4 1/2	4.00	1 3/8	1 1/4	1/4
5	4.80	1 1/2	1 3/8	3/8
5 1/2	5.25	1 5/8	1 1/2	3/8
6	5.75	1 3/4	1 3/4	3/8

Larger and special sizes to order, on application.

NEPTUNE SPECIALTIES PRODUCTS



**"Neptune" Marked Lead Lines**

WITH VINYLITE PLASTIC MARKERS  
1-INCH CIRC. ITALIAN HEMP LINE

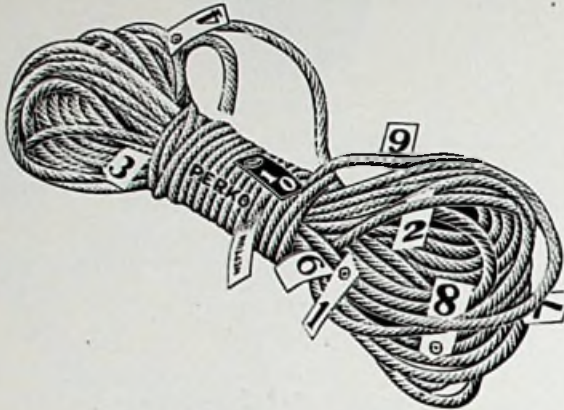


Fig. 190

A lead line that makes sense and can be easily read by anyone using it regardless of experience.

Instead of the old cryptic markings, it makes use of colored Vinylite Plastic Markers printed with numerals in contrasting colors. These markers are soft and resilient, unaffected by salt, grease, oil and sunlight.

The Neptune line was widely used during the war by the Navy, Army and U. S. Maritime Commission.

Length Fathoms	Each	Length Fathoms	Each
7	\$5.00	50	\$20.00
10	6.00	60	28.00
15	8.00	75	36.25
20	9.50	100	55.00
25	11.50	120	62.00
30	13.50	150	75.00
40	18.00		

**NOTE MARKINGS**, up to 10 fathoms inclusive marked every fathom and half fathom, the latter indicated by yellow strip.

Longer lines marked according to Navy standard IE, 2-3-5-7-10-13-15-17-20 fathoms and every 5 fathoms thereafter.

**NOTE**—During present scarcity of Italian hemp it may be necessary occasionally to supply long lines of braided cotton.

**Sounding Leads**

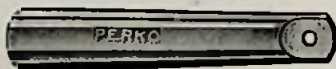


Fig. 940

All weights from 2 to 16 pounds each inclusive carried in stock.

Per Pound \$ .48

Larger sizes furnished to order.

**"Neptune" Plastic Boat Fenders**

VINYLITE PLASTIC COVERING  
CORK FILLED—THEY FLOAT  
COLORS, BLACK OR WHITE



Fig. 191

The Vinylite Plastic Covering is of heavy gauge, mildew-proof and waterproof. It won't crack or dry out. It's so tough that it can take the friction and battering of hull to dock and outlast old-type fenders many times over.

This covering is non-porous and is impervious to grease, oil or water. Easily cleaned with soap and water or alcohol.

Supplied in two colors, gleaming black or glistening white. Colors cannot be scuffed off. They are a part of the material.

Grommets at both ends.

Size, Inches	Each
4 x 18	\$3.75
5 x 20	5.75
6 x 22	6.85

Specify color when ordering.

**"Neptune" Water Ring**  
TRANSLUCENT VINYLITE—WELDED  
PNEUMATIC



Fig. 201

Ideal for children and grownups for use as a swimming ring. Its resemblance to a ring buoy plus its attractive nautical designs will enhance the atmosphere of a marine room at home, a yacht club, hotel, etc.

The designs cannot be worn off as they are inside the translucent plastic.

Has a patented device (non-protruding) for inflating by mouth.

Each	Outside Diameter Inches	Inside Diameter Inches	Weight Deflated Ounces
\$4.25	19	9	5



NEPTUNE SPECIALTIES PRODUCTS

“Neptune” Kapok Cushions

(Patents Pending)

VINYLITE COVERED — WEATHERPROOF — COLORFUL DESIGNS

U. S. COAST GUARD APPROVAL B-354—SIZE 15" x 15"

**BUILT TO “TAKE IT”** — The soft resilient Vinylite plastic covering permits exposure to salt spray, rain, sleet and the broiling heat of the sun. It is unaffected by oil, grease or dirt, can be washed off with a damp rag or soapy water, then it is as good as new.

**THE DESIGN “STAYS IN”** — The colorful design is permanently bonded to the inner surface of the translucent plastic covering, it cannot be defaced or worn off. The present designs illustrated below have an attractive light blue background, the flags, buoy, compass rose, etc., are in contrasting colors of red, white and royal blue.

**APPROVED** — By U. S. Coast Guard for use as life preservers on motors boats smaller than class 3, not in Commercial Service.

Signal Flag Series

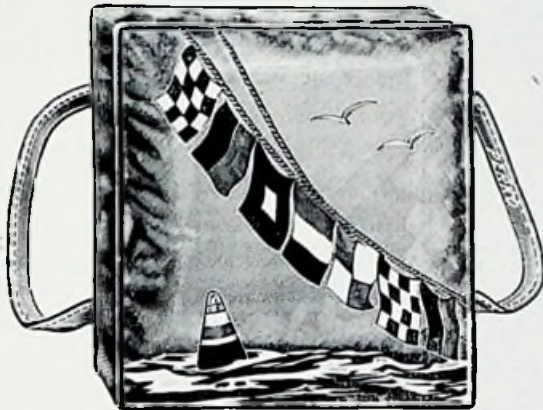


Fig. 192  
Each \$5.50

Coast Guard Series

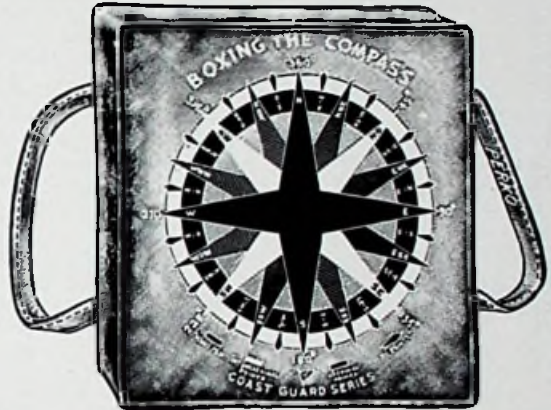


Fig. 193  
Each \$5.50

Coast Guard Series

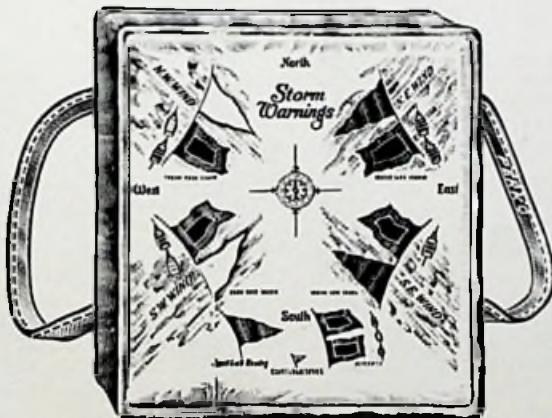


Fig. 196  
Each \$5.50

“Neptune” Water Ball  
TRANSLUCENT VINYLITE—WELDED  
PNEUMATIC

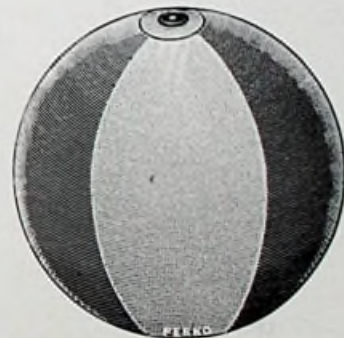


Fig. 210

An attractive plaything for the beach, lake, lawn or even indoors. Large size but extremely light in weight. Contrasting colors.

Has a patented device (non-protruding) for inflating by mouth.

Solid Color Cushions  
NO DESIGN

Fig. 197—All Red with White Piping	Each \$5.50
Fig. 198—All White with Red Piping	5.50
Fig. 199—All Blue with Red Piping	5.50

Each	Diameter	Weight
\$6.25	Inches	Deflated
	18	Ounces
		8





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57	141	129	23	202	57	281	45
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59	26	131	35	204	59	283	44
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349	94	435	142	528	75	619	122
350	85	441	127	529	48	620	122
351	85	445	125	530	53	621	122
352	86	446	98	531	14	622	121
353	85	447	77	532	33	623	121
355	44	449	115	534	51	624	121
358	119	450	29	543	99	625	117
359	129	451	29	544	96	626	117
362	18	452	138	545	100	627	91
366	141	453	69	546	96	628	90
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