

**PERKO**



**CATALOG 125**

**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,  
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. 125 1949



REG. TRADE MARK

### BRANCH SALES OFFICES

**New England Area**  
35 BROOKVALE ST.  
DORCHESTER 24, MASS.

**Mid-West Area**  
675 DELAWARE AVE.  
BUFFALO 2, N. Y.

**Southern Area**  
P. O. DRAWER 30  
BOYNTON BEACH, FLA.

**Gulf Coast Area**  
1005 MAGAZINE ST.  
NEW ORLEANS 13, LA.

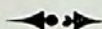
**Pacific Coast Area**  
51 FREMONT ST.  
SAN FRANCISCO 5, CAL.

1331 SO. LOS ANGELES ST.  
LOS ANGELES 15, CAL.

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  
PRESIDENT



WM. J. MURPHY  
VICE PRESIDENT AND  
GEN'L SALES MANAGER



MARVIN S. PERKINS  
SECRETARY



NATHAN LIPPMAN  
TREASURER



FREDERICK PERKINS  
FOUNDER



WM. H. DEVIN  
NEW ENGLAND STATES



HERBERT M. HILL JR.  
NEW YORK STATE, OHIO,  
WESTERN PENNSYLVANIA,  
WEST VIRGINIA



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



ROLAND E. MCCUNE  
PACIFIC COAST TERRITORY  
SOUTHERN DIVISION  
CALIFORNIA, NEVADA,  
UTAH, COLORADO, ARIZONA,  
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NORTHERN DIVISION  
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MONTANA, WYOMING, ALASKA,  
BRITISH COLUMBIA, ALBERTA,  
SASKATCHEWAN



ROBERT TOE LAER  
SOUTHERN STATES  
FLORIDA, GEORGIA,  
SOUTH CAROLINA





## 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.		NONE	NONE
PORT SIDE LIGHT	NONE	NONE	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	NONE	NONE	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	NONE	NONE	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	NONE	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	NONE	NONE	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, except outboard motors.			
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 gal. foam or 1-4-lb. CO <sub>2</sub> extinguisher. None required on outboard motorboats.	2—1-Qt. tetrachloride or 2-1 1/4 gal. foam or 2-4-lb. CO <sub>2</sub> extinguishers.	3—1-Qt. carbon tetrachloride or 3-1 1/4 gallon 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

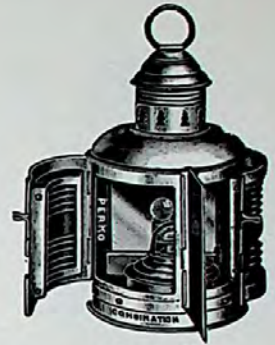
Measurements of base, 5 inches x 5 1/2 inches

Size of lens, 3 1/8 inches x 3 inches

Weight, 3 3/8 pounds



(Closed)



(Opened)

Fig. 0-1

Galvanized  
Each  
\$9.75

Polished  
Brass  
Each  
\$11.00

Chromium  
Plated  
Each  
\$13.75

**De-Lite Combination Lights**

FLAT TOP—FRONT DOOR

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Height, less ring, 6 1/2 inches

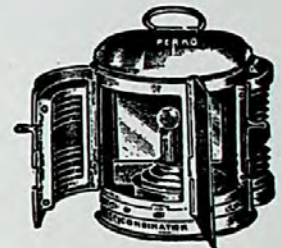
Measurements of base, 5 inches x 5 1/2 inches

Size of lens, 3 1/8 inches x 3 inches

Weight, 3 pounds



(Closed)



(Opened)

Fig. 0-10

Galvanized  
Each  
\$9.75

Polished  
Brass  
Each  
\$11.00

Chromium  
Plated  
Each  
\$13.75

**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 1/8 x 3 3/8 inches.

Weight, 2 5/8 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 1/8 x 3 3/8 inches.

Weight, 2 pounds.



Fig. 3

	Galvanized Each	Polished Brass Each	Chromium Plated Each
	\$7.50	\$8.75	\$11.25

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, No. 2.....	.65
Electric Sockets, Medium Screw, fig. 346, No. 1.....	.50





## "Perko" De-Lite Anchor Lights

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



Junior  
Fig. 0-2

Senior  
Fig. 0-6

Fig.	Height Less Ring Inches	Diam. Base Inches	Size of Lens Inches	Weight Each Pounds
0-2	8 $\frac{3}{8}$	4 $\frac{1}{2}$	3 $\frac{1}{8}$ x3 $\frac{1}{8}$	2
0-6	11 $\frac{3}{4}$	5 $\frac{3}{8}$	4 $\frac{1}{4}$ x4	3

OIL OR ELECTRIC ONLY

Fig.	Galv. Each	Polished Brass Each	Chromium Plated Each
0-2	\$6.00	\$7.25	\$10.00
0-6	7.50	8.75	11.50

Comb. Oil and Electric, add \$ .50 each.  
Fig. 0-6 with Hinged Bottom, add \$ .65 each.

FLAT TOP—BOLTED GUARDS  
FOR CLASSES 1, 2 AND 3 BOATS



Junior  
Fig. 11

Senior  
Fig. 12

Fig.	Height Less Ring Inches	Diam. Base Inches	Size of Lens Inches	Weight Each Pounds
11	6	4 $\frac{1}{2}$	3 $\frac{1}{8}$ x3 $\frac{1}{8}$	1 $\frac{1}{2}$
12	9	5 $\frac{3}{8}$	4 $\frac{1}{4}$ x4	2 $\frac{1}{2}$

ELECTRIC ONLY—DOUBLE CONTACT SOCKETS

Fig.	Galv. Each	Polished Brass Each	Chromium Plated Each
11	\$6.00	\$7.25	\$10.00
12	7.50	8.75	11.50

With Red, Green, Blue or Amber Lens.

Figs. 0-2 and 11, add \$1.65 each.

Figs. 0-6 and 12, add 2.00 each.

All above lights 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 and Electric Founts, fig. 735, for figs. 0-2 & 11	3.00
Oil and Electric Founts, fig. 736, for figs. 0-6 & 12	3.00
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.	

## 10 Day Oil Anchor Light

360 DEGREE CLEAR FRESNEL LENS  
LATCHED SWIVEL FOUNT

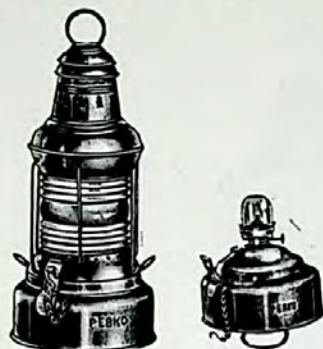


Fig. 596

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
\$19.50	4 $\frac{1}{4}$ x 4	14	7	3 $\frac{1}{2}$	4 $\frac{1}{2}$

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

Fig. 596-A Fount complete, \$10.00 each.

Light only, less Fount, \$12.00 each.

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

Spare lenses, see fig. 261.

## Navy or Life Boat Lantern

OIL BURNING—APPROVED

Height Inches	Diam. of Base Inches	Size of Globe Inches	Weight Lbs.
11	5 $\frac{3}{8}$	4 x 6 $\frac{1}{2}$	3

Pol.  
Brass  
Each

With clear globe..... \$8.50 \$10.00

With colored globe..... 10.50 12.00

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

## Sail Boat Side Lights

SMALL SIZE—OIL BURNING

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 $\frac{1}{8}$ x3 $\frac{3}{8}$	9	4 $\frac{1}{4}$	4

Galvanized  
Per Pair  
\$12.00

Pol. Brass.  
Per Pair  
\$14.50

Oil and Electric, with Fig. 735 Fount,  
add \$1.00 per pair.

Spare Lenses, see Fig. 259, Class 1.

Spare Founts, see Figs. 287 or 735.

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



Fig. 69





**"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



(Closed)

Height, less ring, 10 1/2 inches  
Measurements of base, 5 1/4 inches x 5 1/4 inches  
Size of lens, 4 1/4 inches x 4 1/4 inches  
Weight, per pair, 6 1/2 pounds

Fig. 0-4

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, 10 1/2 inches  
Size of lens, 4 1/4 inches x 6 3/8 inches  
Measurements of base, 5 inches x 5 1/2 inches  
Weight, each, 3 pounds

Fig. 0-5



(Closed)

With clear lens

With Red, Green or Blue 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, 7 1/4 inches  
Measurements of base, 5 1/2 inches x 5 1/2 inches  
Size of lens, 4 1/4 inches x 4 1/4 inches  
Weight, per pair, 5 1/2 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, 7 3/4 inches  
Measurements of base, 5 inches x 5 1/2 inches  
Size of lens, 4 1/4 inches x 6 3/8 inches  
Weight, each, 2 3/4 pounds

Fig. 0-50



(Closed)

With clear lens

With Red, Green or Blue 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.....		<b>2.10</b>
Oil Founts, fig. 582, Brass, for figs. 0-4 and 0-5.....		<b>1.25</b>
Oil Burners, fig. 246 No. 1, Brass, for figs. 0-4 and 0-5.....		<b>.30</b>
Oil Wicks, fig. 302 No. 1.....		<b>.05</b>
Electric Sockets, Double Contact, fig. 276, No. 2.....		<b>.65</b>
Electric Sockets, Medium Screw, fig. 346, No. 1.....		<b>.50</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



(Closed)

Size of lens, 5 1/8 inches x 5 1/8 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  
\$19.50

Polished  
Brass  
Per Pair  
\$22.50

Chromium  
Plated  
Per Pair  
\$29.00



(Opened)

**"Perko" De-Lite Bow Lights**

TURRET TOP

CLASS 3—OIL AND ELECTRIC, DOUBLE CONTACT



(Closed)

Size of lens, 5 1/8 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

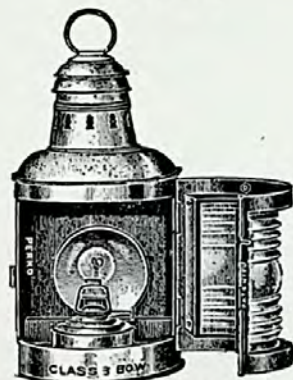
Fig. 0-9

With clear lens  
With Red, Green or Blue Lens

Galvanized  
Each  
\$9.75  
11.75

Polished  
Brass  
Each  
\$11.25  
13.25

Chromium  
Plated  
Each  
\$14.50  
16.50



(Opened)

**"Perko" De-Lite Side Lights**

FLAT TOP—CLASS 3

ELECTRIC ONLY—DOUBLE CONTACT SOCKET



(Closed)

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

Fig. 0-80

Galvanized  
Per Pair  
\$19.50

Polished  
Brass  
Per Pair  
\$22.50

Chromium  
Plated  
Per Pair  
\$29.00



(Opened)

**"Perko" De-Lite Bow Lights**

FLAT TOP—CLASS 3

ELECTRIC ONLY—DOUBLE CONTACT SOCKET



(Closed)

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

Fig. 0-90

With clear lens  
With Red, Green or Blue Lens

Galvanized  
Each  
\$9.75  
11.75

Polished  
Brass  
Each  
\$11.25  
13.25

Chromium  
Plated  
Each  
\$14.50  
16.50



(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, No. 3.....	Each	.65
Electric Sockets, Medium Screw, fig. 346, No. 1.....	Each	.50



## Old Style Class 2 Side Lights

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



Size of Lenses,  $4\frac{1}{4} \times 4\frac{1}{4}$  inches  
Extreme Height,  $10\frac{1}{2}$  inches  
Size of Base,  $4\frac{3}{4} \times 5\frac{1}{2}$  inches  
Weight, per pair,  $5\frac{1}{2}$  lbs.

	Galvanized 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 \$5.00 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,  $5\frac{3}{8} \times 5\frac{3}{8}$  inches  
Extreme Height,  $12\frac{1}{2}$  inches  
Size of Base,  $5 \times 6\frac{1}{4}$  inches  
Weight, per pair,  $7\frac{1}{2}$  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,  $4\frac{1}{4} \times 4\frac{1}{4}$  in.  
Extreme Height,  $7\frac{1}{4}$  in.  
Size of Base,  $4\frac{3}{4} \times 5\frac{1}{2}$  in.  
Weight, per pair, 5 lbs.

CLASS 3  
Size of Lenses,  $5\frac{3}{8} \times 5\frac{3}{8}$  in.  
Extreme Height,  $8\frac{1}{2}$  in.  
Size of Base,  $5 \times 6\frac{1}{4}$  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	\$19.00
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.

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,  $4\frac{1}{4} \times 6\frac{3}{8}$  inches  
Extreme Height,  $10\frac{1}{2}$  inches  
Size of Base  $4\frac{1}{2} \times 5$  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 \$2.50  
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,  $5\frac{3}{8} \times 7\frac{1}{8}$  inches  
Extreme Height,  $12\frac{1}{2}$  inches  
Size of Base,  $5\frac{1}{2} \times 6\frac{1}{4}$  inches  
Weight, each,  $3\frac{1}{2}$  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,  $4\frac{1}{4} \times 6\frac{3}{8}$  inches  
Extreme Height,  $7\frac{1}{4}$  inches  
Size of Base,  $4\frac{1}{2} \times 5$  inches  
Weight, each,  $2\frac{1}{2}$  lbs.

CLASS 3  
Size of Lens,  $5\frac{3}{8} \times 7\frac{1}{8}$  inches  
Extreme Height,  $8\frac{1}{2}$  inches  
Size of Base,  $5\frac{1}{2} \times 6\frac{1}{4}$  inches  
Weight, each,  $3\frac{1}{4}$  lbs.

Fig. 5

Class	Galvanized Each	Polished Brass Each	Chromium Plated Each
2	\$6.00	\$7.00	\$ 9.50
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			

### SPARE PARTS

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





## "Sport Kit" Lights

FLASHLIGHT BATTERY TYPE—2 CELL  
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.

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

Fig. 1142  
Each  
\$7.50

Fig. 1143  
Each  
\$6.50

Extra  
Bulbs  
Each  
\$.20

Clearance in regular clamp is 1 3/8"; with larger clamp, 2" clearance, add \$.50 each.

Price includes one bulb in each light, no batteries.



Fig. 68

## Battery Anchor 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.

## Battery Anchor Light

POLISHED BRASS CASE  
WITH TOGGLE SWITCH AND BULB

Uses ordinary 1 1/2 volt dry cell such as Eveready No. 6 or equal. Bulb is Mazda No. 131.

Without Battery Each	With Battery Each	Height Inches	Diam. Base Inches
\$9.80	\$11.25	10 1/2	3

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

Spare globes, see Fig. 250.  
Spare batteries, \$1.25 each.  
Spare bulbs, \$.20 each.



Fig. 48

## Battery Navigation Lights

HINGED DOOR—INTERNAL SWITCH—  
WATERPROOF

FOR TWO FLASHLIGHT DRY CELLS

Especially desirable on sailboats having no storage battery or generator.

Battery cells are enclosed in a container within the light body, doubly protected against weather yet easily replaceable. The switch is part of the inner container, therefore also waterproof.

Bulbs are included; batteries extra.

## Combination Lights

WITH BACK BRACKET—CLASS 1



Fig. 40

Polished Brass Each	Chromium Plated Each	Height Overall Inches	Width Overall Inches	Size Lenses Inches	Weight Pounds
\$10.50	\$12.50	5 5/8	5 3/8	3 1/8 x 3 3/8	2 1/4

## Side Lights

CLASS 2

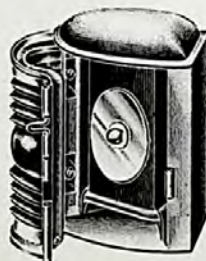


Fig. 41

Polished Brass Per Pair	Chromium Plated Per Pair	Height Overall Inches	Size Lenses Inches	Weight Per Pair Pounds
\$19.00	\$23.00	5 3/8	4 1/4 x 4 3/4	4

## Bow Lights

CLASS 2



Fig. 42

Polished Brass Each	Chromium Plated Each	Height Overall Inches	Width Overall Inches	Size Lens Inches	Weight Pounds
\$9.50	\$11.50	5 3/8	5 1/2	4 1/4 x 6 3/8	2

Spare Inner Containers for above lights, \$2.00 each.

Spare Lenses, see Figs. 259 and 260.

Spare Bulbs and Batteries available in any hardware store.



## Royal Combination Lights

**GALVANIZED IRON AND BRASS**  
ELECTRIC ONLY — DOUBLE CONTACT  
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.



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

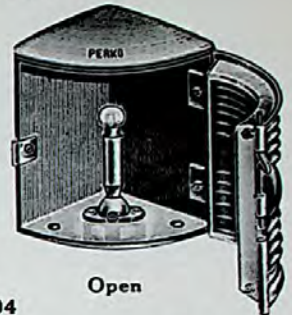
Fig. 89 Spare Lenses, see Fig. 259, Cl. 1.

## De-Lite Side Lights

WITH FRONT DOORS  
FOR CLASSES 2 AND 3 BOATS  
CAST BRONZE



Closed



Open

Fig. 504

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.

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 3/8 x 5 3/8	8
		Polished Bronze Per Pair	Chromium Plated Per Pair	Spare Lenses Each
		\$19.00	\$23.00	\$2.10
		23.00	27.00	2.60
				Spare Sockets Each
				\$.65

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

Spare D.C. Sockets, see Fig. 276, No. 0.

Spare Lenses, see Fig. 259.

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

## Royal Side Lights

ELECTRIC ONLY — DOUBLE CONTACT  
FOR CLASSES 1, 2 AND 3 BOATS

Same construction as above.



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

Fig. 91

Spare Lenses, see Fig. 259.

## Royal Bow Lights

ELECTRIC ONLY — DOUBLE CONTACT  
FOR CLASSES 1, 2 AND 3 BOATS

Same construction as above.



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 3/8 x 7 1/8	2
		Galv. Each	Pol. Brass Each
		\$4.00	\$5.00
		4.25	5.25
		5.00	6.00
			Chrom. Plated Each
			\$ 7.25
			7.50
			8.25

Fig. 92

Spare Lenses, see Fig. 260.

## Royal Anchor Lights

ELECTRIC ONLY — DOUBLE CONTACT  
FOR CLASS 1, 2 AND 3 BOATS



	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
		Pol. Brass Each	Chrom. Plated Each
		\$5.25	\$7.50
		7.00	9.25

Fig. 90

Spare Lenses, see Fig. 261.

Above lights cannot be equipped with medium screw sockets.

Spare Brackets, see Fig. 25.

Spare Electric Adapters, see Fig. 138.

## 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 3/8 x 7 1/8	4 1/4
		Polished Bronze Each	Chromium Plated Each	Spare Lenses Each
		\$ 9.50	\$11.50	\$2.10
		11.50	13.50	2.60
				Spare Sockets Each
				\$.65

With medium screw sockets, add \$1.25 Each.

Spare D.C. Sockets, see Fig. 276, No. 0.

Spare Lenses, see Fig. 260.

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

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



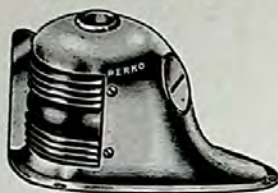


## COMBINATION LIGHTS—ELECTRIC

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	

Spare D.C. Sockets, see Fig. 747, No. 1.

### 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

Spare D.C. Sockets, see Fig. 747, No. 1.

### Wrought Brass Type



Fig. 485  
For Permanent Mounting



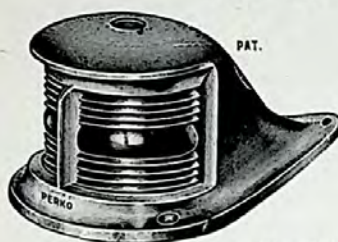
Fig. 486  
For Temporary Mounting

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
485	\$4.25	\$5.50	\$1.00	\$ .70
486	5.00	6.25	1.00	\$ .65

### 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 3/16 x 3	3/4	2
2	3 3/4	4 7/8 x 8	2 3/16 x 3	1	2 1/2
3	4 3/8	5 1/2 x 8 3/4	3 3/16 x 3 3/8	1	4 3/4
No.	Polished Bronze 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	

Spare Lenses, see Fig. 259.

Spare D.C. Sockets, see Fig. 747, No. 1.

### Lightweight Type

FOR LARGE CLASS 1 MOTORBOATS  
PRESSED BRASS

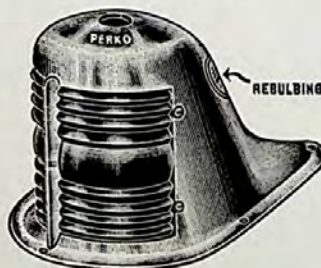


Fig. 1141

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 5/8 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

Spare D.C. Sockets, see Fig. 747, No. 5.

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 7/8	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

Class	Polished Bronze Per Pair	Chromium Plated Per Pair	Spare Lenses Each	Spare Sockets Each
2	\$19.00	\$23.00	\$2.10	\$.35
3	28.00	33.00	2.60	.35

Spare Lenses, see Fig. 259.  
Spare D.C. Sockets, see Fig. 747, No. 1.

### Streamline Bow Lights

CAST BRONZE

CLASSES 2 AND 3—ELECTRIC

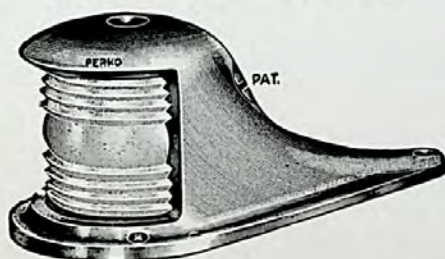


Fig. 561

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 3/8 x 13	5 1/16 x 7 1/8	8 3/4	1

Class	Polished Bronze Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each
2	\$17.00	\$21.00	\$2.10	\$.35
3	24.00	29.00	2.60	.35

Spare Lenses, see Fig. 260.  
Spare D.C. Sockets, see Fig. 747, No. 5.

### 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 3/16	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	Spare Sockets Each
\$15.00	\$16.50	\$20.50	\$2.10	\$.35

Plain brass finish is bright dipped.  
Spare Lenses, see Fig. 259.  
Spare D.C. Sockets, see Fig. 747, No. 1.

### Lightweight Streamline Bow Lights

PRESSED BRASS  
CLASS 2—ELECTRIC

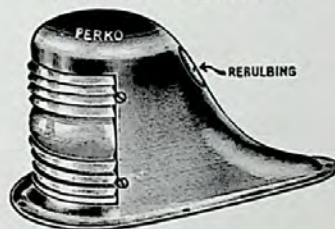


Fig. 1139

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 3/8 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
\$9.75	\$10.75	\$12.75	2.10	\$.35

Plain brass finish is bright dipped.  
Spare Lenses, see Fig. 260.  
Spare D.C. Sockets, see Fig. 747, No. 5.

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—VARNISHED



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	\$10.75	\$12.50	1¼
30	11.00	12.75	1¼
36	11.25	13.00	1¼
48	12.50	14.25	1¼

Spare clear globes (2½ or 3 inch), \$1.50 Each  
 Spare electric bulb sockets fig. 747, No. 2, .35 Each  
 Electric connectors only (male & female), 1.00 per set  
 Complete except F. P. socket, deduct 1.50 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.

Length Pole Inches	Polished Brass Each	Chromium Plated Each	Weight Pounds
20	\$ 9.50	\$11.00	1
24	10.00	11.50	1 1/8
30	10.50	12.00	1 1/4

Complete except F. P. socket—deduct \$1.00 Each  
 Spare clear globes, 1.00 Each  
 Spare electric bulb sockets, fig. 747, No. 2, .35 Each  
 Electric connectors only (male & female), 1.00 per set

## 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	\$8.25	\$10.00	¾
24	8.50	10.25	¾
30	8.75	10.50	¾

Complete except F. P. socket, deduct \$ .80 Each  
 Spare clear globes, 1.00 Each  
 Spare electric bulb sockets fig. 747, No. 2, .35 Each  
 Electric connectors only (male & female), 1.00 per set





### Combination Flag Pole and Light

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



Length Overall Inches	Polished Brass Each	Chromium Plated Each
24	\$6.60	\$8.00
30	6.85	8.25
36	7.10	8.50
48	8.00	9.50

Diameter Base (all lengths) 1¼ inches.

Fig. 492

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, No. 2, .35 Each

With Red, Green or Blue Globe, add .50 Each

Connectors for above, see Fig. 283 .25 Each

### Junior Flag Pole Lights

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



Length Overall Inches	Diam. Base Inches	Weight Oz.	Polished Brass Each	Chromium Plated Each
20	¾	7		
24	¾	8		
30	¾	9		
Height Inches	Polished Brass Each	Chromium Plated Each		
20	\$5.50	\$6.50		
24	6.00	7.00		
30	6.50	7.50		

Globe will accommodate 6 C. P. bulb.

Spare clear globes, \$1.00 Each

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

Connectors for above, see Fig. 283.

Fig. 602

### Junior Flag Pole Lights

1½ INCH FRESNEL BALL GLOBE, FIG. 604  
 HOLLOW BRASS POLE—CAST BRONZE SOCKET  
 DOUBLE CONTACT—WIRED



Length Overall Inches	Diam. Pole Inches	Weight Oz.	Length Overall Inches	Polished Brass Each	Chromium Plated Each
20	¾	11	20	\$6.00	\$7.75
24	¾	12	24	6.25	8.00
30	¾	16	30	6.50	8.25

Spare clear globes, \$1.00 Each.  
 Spare electric sockets, Fig. 747, No. 2, \$.35 Each.

Connectors for above, see Fig. 283.

Fig. 603

### New Adjustable Flag Pole Light

1½ INCH FRESNEL BALL GLOBE, FIG. 604  
 HOLLOW BRASS POLE—WITH CONNECTORS  
 CAST BRONZE STREAMLINE SOCKET  
 DOUBLE CONTACT—WIRED



Adjustable to various lengths down to 5 inches if desired. Knurled nut holds pole firmly in socket. Connectors pass through socket for removal of pole.

Maximum Length Inches	Diam. Pole Inches	Weight Pounds	Maximum Length Inches	Polished Brass Each	Chromium Plated Each
20	¾	1¼	20	\$6.50	\$8.25
24	¾	1½	24	6.75	8.50
30	¾	1½	30	7.00	8.75

Spare clear globes, \$1.00 Each.  
 Spare electric sockets fig. 747, No. 2, \$.35 Each.

Fig. 609

### Mahogany Flag Poles

Turned from solid seasoned mahogany. Natural finish—varnished.



Length Overall Inches	Each	Diameter Base Inches
18	\$1.25	¾
18	1.50	1
24	2.25	1
30	3.25	1¼
36	4.25	1¼
48	5.25	1¼

With brass ferrule, add \$.50 Each.

Fig. 496





## 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

## 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.

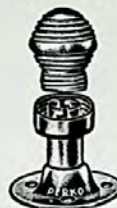


Fig. 404

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	2⅜	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

**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

**HEAVY DUTY TYPE**  
GLOBE HOLDER MILLED FROM BRASS ROD  
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	\$5.00	\$6.00	\$1.50	2½	5	¾	1
2	5.00	6.00	1.50	3	5¾	¾	1½



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

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

### 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	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 60 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	\$8.50	\$9.75	

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 60 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	\$9.00	\$10.25		

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. 18" and longer has a 5 1/4" diameter base.

Height Overall Inches	Diam. Base Inches	Diam. Neck Inches	Size Lens Inches	Weight Pounds
10	3 1/2	7/8	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 \$ .25.

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

With Fig. 106 Clear Threaded Globe for bulb up to 60 watts, medium screw base.

Height Overall Inches	Diam. Bottom Opening Inches	Inside Length 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	\$15.00	\$17.00		

Spare globes, \$2.25 each.  
Spare guards, \$2.50 each.  
Spare sockets, \$ .60 each.



Fig. 83

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 1/4 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 1/2

## Mast and Yardarm Lights

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



Fig. 103

Fig. 103 threaded for 1/2 inch pipe.



Fig. 104

Fig. 104 for mounting on Truck or Yardarm.  
Will accommodate 15 watt A-17 bulb.

Fig.	Plain Bronze Each	Polished Bronze Each	Height Overall Inches	Diam. Globe Inches	Weight Pounds
103	\$6.25	\$7.75	6	3	2
104	7.00	8.75	5 5/8	3	2

Chromium plated finish, add \$2.00 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.

## 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.

Fig.	Plain Bronze Each	Polished Bronze Each	Height Overall Inches	Diam. Base Inches	Size Globe Inches	Opening In globe Inches	Weight Pounds
488	\$4.50	\$5.25	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 \$ .40 each.

Fig. 489



## Mast Light

CAST BRONZE—WITH MEDIUM SCREW SOCKET  
FIG. 106 THREADED GLOBE—60 WATT



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	Polished Bronze Each	Chromium Plated Each
\$6.50	\$7.25	\$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.

## Guarded Mast Light

CAST BRONZE—WITH MEDIUM SCREW SOCKET  
LENS GUARD AND FIG. 106 GLOBE—60 WATT



Fig. 145

Plain Bronze Each	Height Overall Inches	Size Globe Inches	Opening in Globe Inches	Tapped for Pipe Size Inches	Weight Pounds
\$9.75	7 3/8	5 x 3 1/2	2 3/4	1/2	3 1/4

Spare Threaded Brass Guards \$2.50 each.

Other Spares and Extras, see Fig. 309 above.

## 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

Bulbs for Fig. 329, see Fig. 337 all sizes listed.

Bulbs for Fig. 330, see Fig. 8 all sizes listed.





### Combination Blinker and Loading Light

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



Fig. 1163

Four sockets in lower section for 25 watt tubular bulbs. One socket in upper section for bulb up to 60 watt. Bulbs not included. Base threaded 1 inch I. P. S.

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	\$.75	\$.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 Less Base Bails Inches	Diam. Base Inches	Weight Pounds
¼ 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	Elec.
6	Fig. 264	Fig. 246 No. 0	Fig. 735	Fig. 274
8	Fig. 264	Fig. 246 No. 1	Fig. 286	Fig. 292
10	Fig. 264	Fig. 242 No. 2	Fig. 282	Fig. 288

### Mast or Blinker Signaling Lights

CAST BRONZE—WATERTIGHT—PLAIN 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
2	21.50	23.00	1 medium screw socket
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-D	32.75	38.00	1 mogul 3 wire socket

All above sockets are Phenolic (Bakelite).

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, \$ .45 each.

120 volt 25 watt T-10 clear for no. 3-A, \$ .75 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. 259 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. 256 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of lugs Inches	Weight Pounds Each
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. 269 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of lugs Inches	Weight Pounds Each
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. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight 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. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight 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. 259 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. 256 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	8¾	9
2	45.00	53.50	7½	18	9 x 10	10¾	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. 269 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	8¾	8
2	45.00	53.50	7½	18	9 x 10	10¾	13
3	80.00	93.00	8½	19¾	10¾ 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. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Each Pounds
0	\$31.75	\$40.25	5½	13¾	7¾	10
1	33.00	41.50	6¾	14¾	7¾	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. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Each Pounds
0	\$36.75	\$45.25	5½	13¾	7¾	10
1	38.00	46.50	6¾	14¾	7¾	11
2	49.00	57.50	7½	18	9½	17
3	86.50	99.50	8½	19¾	11	23



Fig. 1158

Fig. 1159



Oil Lamp used in Lights on this page

No.	Each
0-1 Comp.	\$4.00
2-3 Comp.	\$5.00

**ELECTRIC ONLY**

With Fig. 288 Medium Screw Adapter, use above prices.

With Fig. 289 Medium Screw Adapter, add \$2.00 each.

With Fig. 1082 3 Wire Mogul Adapter, add \$2.25 each.

**COMBINATION OIL AND ELECTRIC**

With Fig. 288 Medium Screw Adapter, add \$3.00 each.

With Fig. 289 Medium Screw Adapter, add \$5.00 each.

With Fig. 1082 3 Wire Mogul Adapter, add \$5.25 each.

**COPPER LIGHTS MADE TO ORDER—PRICE ON APPLICATION**





## 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. 259 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. 256 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



Fig. 986

### 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.

### 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 \$2.25 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 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	8½	9½
2	34.50	44.50	7½	18¾	9 x 9½	10½	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

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	8½	7½
2	34.50	44.50	7½	18¾	9 x 9½	10½	10½

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

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



Fig. 985

**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

**ELECTRIC ONLY**

With Fig. 288 Medium Screw Adapter, use above prices.  
 With Fig. 289 Medium Screw Adapter, add \$2.00 each.  
 With Fig. 1082 3 Wire Mogul Adapter, add \$2.25 each.

**COMBINATION OIL AND ELECTRIC**

With Fig. 288 Medium Screw Adapter, add \$3.00 each.  
 With Fig. 289 Medium Screw Adapter, add \$5.00 each.  
 With Fig. 1082 3 Wire Mogul Adapter, 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



Frustrum Folded



Fig. 175



Fig. 176

Fig. No.		Diam. Inches	Height Inches	Weight Lbs.	Each
169	5 Black ball signal	24	24	2½	\$10.00
170	3 Red ball signal	24	24	2½	14.50
171	4 Black and white ball signal	24	24	2½	17.50
172	1 Black and white frustrum	24	48	5	49.00
173	2 Red frustrum	24	48	5	49.00
175	6 Clear towing light, galvanized	7½	14½	9	22.00
176	7 Red towing light, galvanized	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 April 15, 1948. 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 \$4.40 per pair.

Bulb is double contact 2.5 volts .15 amp. S-8.

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, galvanized only. \$46.00 each.

### 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, blue or amber lens, add \$2.00 each.

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

Above prices include bulb, no batteries.

With batteries, add \$4.40 per set.

Spare bulbs, 6 volt .04 amp. miniature base, \$ .30 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.

### Bulkhead Lantern

WITH REMOVABLE GLASSES  
OIL BURNING



Fig. 46

Front Inches	Size Body		Height Overall Inches
	Side Inches	Side Inches	
9 x 13	7¾	13	16
Galvanized Each	Polished Brass Each	Glasses Only Each	
\$23.00	\$31.50	\$1.00	

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

NOTE—This light is made to order and only in quantities of 6 or more.

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 $\frac{3}{4}$	21	9 x 10	14 $\frac{1}{2}$	13

With flat top for electric only, \$51.00 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	\$15.75	7 $\frac{1}{2}$	18	9 $\frac{1}{2}$	17

With flat top for electric only, same price as above.  
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 $\frac{3}{4}$	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.	Galy. Steel Each	Pol. Brass Each	Spare Lenses Each	Height Lenses Each	Height Fig. 407 Inches	C to C of lugs Inches	Wt. Lbs.
1	\$54.50	\$72.00	\$4.90	6 $\frac{3}{4}$	15	8 $\frac{3}{4}$	10
2	61.50	78.50	7.20	7 $\frac{1}{2}$	17 $\frac{1}{2}$	10 $\frac{3}{4}$	14

With Flat Top fig. 408 for Electric only, same price as above.  
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

EMERY FINISH

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 3/8 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 5/8 in.
Weight	19 1/2 lbs.
Each	\$69.50
Furnished with green lens when desired at same price.	
Spare lenses, see fig. 260.	

### Mid-Channel Light

360 DEGREE GREEN LENS

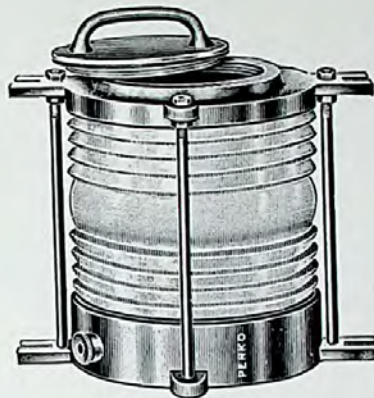


Fig. 1006

Height, less handle	9 1/2 in.
Diameter body	8 in.
Width, ends of guides	11 1/8 in.
Size slot in guides	3/8 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
Spare lenses, see fig. 261.	

### Draw Bridge Light

RED AND GREEN PANEL GLASSES  
360 DEGREE CLEAR LENS

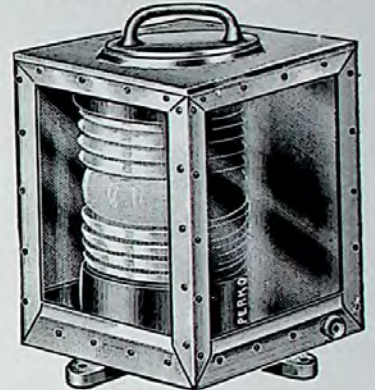


Fig. 1007

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.
Overall size of panel glasses	9 x 9 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
Extra panel glasses, each	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

### Obstruction Light

ON PEDESTAL  
360 DEGREE RED LENS

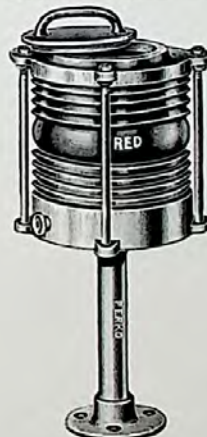


Fig. 126

Height overall	19 in.
Diameter pedestal, pipe size	1 in.
Diameter base	5 in.
Other sizes, see Fig. 1006	
Each	\$78.50

### Lift Bridge Lights

180 DEGREE RED AND GREEN LENSES

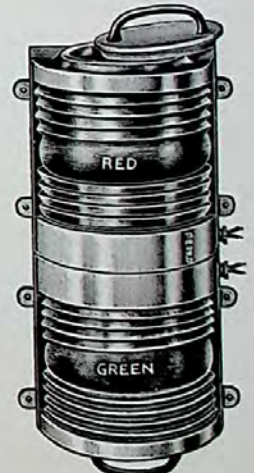


Fig. 127

Height overall	21 1/2 in.
Other sizes, see Fig. 1005	
Each	\$144.00

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
						Each
1	Spare burners (Fig. 231)					\$ .50
1	Spare Chimneys (Fig. 230)					.50
2	Spare Burners Fig. 242 No. 2					1.20
2	Spare Chimneys Fig. 267 No. 2					.90

**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 Eagle chimney, Fig. No. 268. Hole in reflector for hanging on wall.

Complete Each	Spare Chimneys Each	Spare Burners Each	Height of Back Inches	Diam. of Fount Inches	Weight Each Lbs.
\$5.00	\$ .90	\$ .65	9	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	3x1½

**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 TURN 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

#### Upright Pattern

WITH TURN SWITCH—CHROMIUM PLATED



Fig. 225

Chromium Plated Each	Size Base Inches	Length Overall Inches	Projection less Lamp Inches	Weight Ounces
\$3.00	3⅛ x 2⅛	5¾	2¾	10

#### 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	2⅝	12

#### Upright Pattern

WITH TOGGLE SWITCH—CAST BRONZE

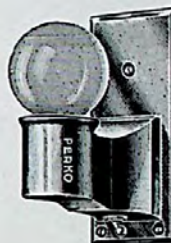


Fig. 304

Polished Bronze Each	Chromium Plated Each	Size Plate Inches	Projection less Lamp Inches
\$6.25	\$8.00	4½x2⅝	2⅝

#### Streamline Pattern

CHROMIUM PLATED  
BAKELITE MEDIUM SCREW SOCKET—  
TURN SWITCH



Fig. 217

Chromium Plated Each	Size Base Inches	Drop less Lamp Inches	Depth less Lamp Inches	Weight Ounces
\$3.00	2½ x 2¼	2¼	2½	8

#### 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

PRICES ON THIS PAGE DO NOT INCLUDE BULBS. WHEN ORDERING BULBS, SPECIFY VOLTAGE AND CANDLEPOWER, FROSTED OR CLEAR. ABOVE FIXTURES ARE SUPPLIED, NOT WIRED.  
NOTE—ATTRACTIVE SHADES AND SHIELDS FOR ABOVE FIXTURES ARE SHOWN ON PAGE 30.





## Double Ceiling Fixture

CAST BRONZE—MEDIUM SCREW SOCKETS  
WITH TOGGLE SWITCH



Fig. 451

Polished Bronze Each	Chromium Plated Each	Size Base Inches	Extension from Ceiling Inches
\$7.50	\$9.00	3 1/2 x 2	2 5/8

## Molded Plastic Shades

WHITE—IVORY—TAN



Fig. 174

Suitable for bulbs up to 60 watts.

White or Ivory Each	Tan Each	Height Inches	Diam. Inches	Weight Ounces
\$ .50	\$ .70	3 1/2	4 1/4	2 1/2

## New Shields for Fixtures

PARCHMENT PAPER

HAND PAINTED



For Hanging Bulb  
Fig. 27



For Upright Bulb  
Fig. 28

A marine design hand painted in colors makes these shields very decorative and appropriate for a yacht stateroom, cabin, yacht club or marine room.

Metal clip is for a bulb up to 60 watts.

Each	Width Inches	Depth Inches	Weight Ounces
\$2.50	4	3 3/4	1 1/2

## "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	\$ .75	\$ .70	\$ .45	5 x 3	1 7/8	11

## Dome Lights

CAST BRONZE—WITH TOGGLE SWITCH  
WITH FIG. 257 RIBBED DIFFUSING GLASS



Fig. 555

No. 1 has Fig. 747 double contact socket and will accommodate a 50 C.P. bulb. No. 2 has Fig. 346 medium screw socket and will accommodate a 15 watt A-17 bulb Fig. 340 or any listed size of Fig. 8.

No.	Polished Bronze Each	Chromium Plated Each	Diam. Glass Inches	Diam. Base Inches	Depth Inches	Weight Pounds
1	\$10.50	\$12.50	4	5 1/2	1 7/8	1 3/4
2	14.50	17.00	6	7 7/8	3 1/8	3 3/4

## Dome Light

WROUGHT BRASS—WITH TOGGLE SWITCH  
FROSTED GLASS FIG. 132—MEDIUM  
SCREW SOCKET FIG. 346



Fig. 753

With accommodate a bulb up to 100 watts.

Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Diam. Glass Inches	Depth Inches	Weight Pounds
\$16.00	\$18.50	9 5/8	8	3	2





### Dome Lights

WITH FIG. 257 DIFFUSING GLASS  
TOGGLE SWITCH—DOUBLE CONTACT SOCKET



Fig. 294

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

Spare sockets, see fig. 747, No. 4.

### Dome Lights

WITH FIG. 132 FROSTED GLASS  
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 3/8	
4	5.50	7.25	5 1/2	1 7/8	
5	6.25	8.25	6 1/2	2	
6	8.00	10.00	7 1/2	2 1/8	

Spare sockets, see fig. 747, No. 4.

### Dome Lights

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



Fig. 385

With Fig. 747 No. 4 Double Contact Socket

No	Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Diam. Globe Inches	Depth Inches
7	\$6.00	\$7.75	6	4 1/4	2 3/8
8	8.00	10.00	7	5 3/8	2 5/8

With Fig. 346 Medium Screw Socket

9	8.50	10.50	7	5 3/8	2 5/8
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Bulb with medium screw base for this light, see Fig. 8. Spare globes, see Fig. 133.

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

### "Brightlite" Dome Lights

OPEN SIDES FOR BETTER ILLUMINATION  
DIFFUSING OR FROSTED GLASS  
BRASS—CHROMIUM PLATED



Fig. 1147

Glass 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 diffusing or frosted globe.

No.	Chromium Plated Each	Diam. Glass Inches	Depth Inches	Diam. Base Inches	Type Glass
1	\$6.25	4	1 7/8	5 1/2	Diffusing
2	6.25	4	1 3/8	5 1/2	Frosted
3	7.25	5	2	6 1/4	Frosted
4	7.25	5	2 3/8	6 1/4	Diffusing

Above prices do not include bulb.

For spare glasses see figs. 132 and 257.

Spare sockets fig. 276, No. 1, \$ .60 each.

### Watertight Dome Light

CAST BRONZE—DOUBLE CONTACT SOCKET  
WITH THREADED DIFFUSING GLOBE

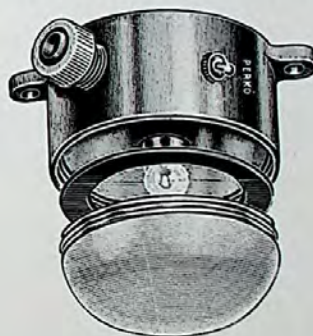


Fig. 1266

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

Plain Bronze Each	Polished Bronze Each	Extreme Diameter Inches	Diameter Globe 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, \$ .70 each.

Spare Globes, \$1.00 each.

Extra Packing Glands installed, \$1.50 each gland.





## Dashboard or Utility Fixture

ALL BRASS—CHROMIUM PLATED  
WITH MINIATURE BAYONET SOCKET



Fig. 148

Having low current drain ( $\frac{1}{4}$  amp.) this fixture has many uses, such as a night light, berth light, engine room, companion way, chart light, binnacle light, control and instrument light.

Adjustable cap permits light over a small or large area. Streamlined and decorative.

6 Volt Each	12 Volt Each	Length Overall Inches	Width Overall Inches	Weight Ounces
\$1.30	\$1.40	2 $\frac{5}{8}$	$\frac{7}{8}$	1

Spare Bulbs, see Fig. 337 No. G-4 $\frac{1}{2}$ , 2 C.P.

## Dashboard Lamp

BRASS—NICKEL PLATED  
DOUBLE CONTACT SOCKET—WITH SWITCH

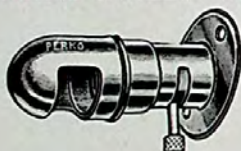


Fig. 184

Each	Height Overall Inches	Size Base Inches	Weight Ounces
\$ .90	2 $\frac{5}{16}$	1 $\frac{1}{8}$ x 1 $\frac{1}{2}$	1 $\frac{1}{2}$

## 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
\$4.00	8	4	7

## Watertight Hand Portables

CAST BRONZE—WOOD HANDLE  
NAVY GLOBE 9-S-3129-L  
DOUBLE CONTACT SOCKET



Fig. 1256

Complete Each	Spare Globes Each	Extreme Length Inches	Extreme Diameter Inches	Weight Pounds
\$9.00	\$1.00	13	4 $\frac{1}{4}$	2 $\frac{3}{4}$

Spare sockets, see fig. 472 No. 20, \$ .70 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	13 $\frac{1}{2}$	4
2	8.85	1.30	60	15 $\frac{1}{2}$	6



## Mazda Lighting Bulbs



Fig. 337

Bulb No.	Diam. Inches	Length Overall Inches
1483	$\frac{1}{8}$	1
G-4½	$\frac{3}{16}$	$1\frac{1}{16}$
G-6	$\frac{3}{4}$	$1\frac{3}{4}$
S-6	$\frac{3}{4}$	$1\frac{3}{8}$
G-8	1	2
S-8	1	$2\frac{1}{8}$
PR-11	$1\frac{1}{8}$	$2\frac{1}{8}$



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	$2\frac{1}{8}$	$3\frac{3}{8}$
A-19	$2\frac{3}{8}$	$3\frac{1}{8}$
A-21	$2\frac{3}{8}$	$4\frac{1}{8}$

Volts	Candle Power	No.	Base	Clear Each
2.5	.15 amp.	S-8	D. C.	\$1.40
6	.04 amp.	1483	Miniature	.40
6	2	G-4½	Min. Bayonet	.16
6-8	3	G-6	D. C.	.16
6-8	6	G-6	D. C.	.18
6-8	15	S-8	D. C.	.33
6-8	21	S-3	D. C.	.36
12	2	G-4½	Min. Bayonet	.30
12-16	3	G-6	D. C.	.18
12-16	6	G-6	D. C.	.22
12-16	15	S-8	D. C.	.35
12-16	21	S-8	D. C.	.40
32	3	G-6	E. C.	.70
32	6	G-8	D. C.	.80
32	15	S-3	D. C.	.90
32	21	PR-11	D. C.	1.10
110	6 watt	S-6	D. C.	.60
110	10 watt	S-8	D. C.	1.30

Packed, 10 bulbs to a box.

### FOR DOME AND BERTH LIGHTS



Fig. 8

Bulb No.	Diam. Inches	Length Overall Inches	Clear Each	
S-11	$1\frac{1}{8}$	$2\frac{3}{8}$		
Volts	No.	C. P. or Watts	Base	Clear Each
6-8	S-11	21	Medium	\$ .90
12-16	S-11	21	Medium	1.00
32	S-11	15	Medium	1.50
120	S-11	15	Medium	1.25

Packed, 6 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	$3\frac{1}{8}$

## Mazda Searchlight Bulbs Fig. 24

Volts	Watts	Candle Power	No.	Base	Diameter Inches	Length Overall Inches	Each
6-8		32	PR-11	D. C.	$1\frac{1}{4}$	$2\frac{3}{8}$	\$ .40
6-8		50	PR-11	D. C.	$1\frac{3}{8}$	$2\frac{3}{8}$	.45
6-8		100	G-16½	D. C.	$2\frac{1}{8}$	3	2.00
6-8	108	18 amp.	P-25	Medium	$3\frac{1}{8}$	$4\frac{3}{4}$	4.75
12-16		32	PR-11	D. C.	$1\frac{1}{4}$	$2\frac{3}{8}$	.45
12-16		50	PR-11	D. C.	$1\frac{3}{8}$	$2\frac{3}{8}$	.70
12-16		100	G-16½	D. C.	$2\frac{1}{8}$	3	2.00
12-16	216	18 amp.	P-25	Medium	$3\frac{1}{8}$	$4\frac{3}{4}$	5.50
32		32	PR-11	D. C.	$1\frac{1}{4}$	$2\frac{3}{8}$	1.25
32		50	PR-11	D. C.	$1\frac{3}{8}$	$2\frac{3}{8}$	1.75
32		100	G-16½	D. C.	$2\frac{1}{8}$	3	2.25
32	2. amp.	100	G-16½	D. C.	$2\frac{1}{8}$	3	2.75
32	3.5 amp.	150	G-16½	D. C.	$2\frac{1}{8}$	3	5.50
32	256	8 amp.	P-25	Medium	$3\frac{1}{8}$	$4\frac{3}{4}$	8.00
32	400		G-30	Medium	$3\frac{3}{4}$	$5\frac{1}{8}$	
120	100		G-16½	D. C.	$2\frac{1}{8}$	3	2.25
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	$2\frac{1}{2}$	$5\frac{1}{2}$	5.50
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

Oil



Fig. 286

Oil and Electric Double Contact



Fig. 736

Electric Double Contact



Fig. 291

Electric Medium Screw



Fig. 292

Oil and Electric Double Contact



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 3/8	4 1/2	06-17-18-19-20

### Swivel Type

Oil



Fig. 287

Electric Double Contact



Fig. 293

Electric Medium Screw



Fig. 274

Oil and Electric Double Contact



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. 346, No. 1.





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

### Swivel Type

Oil



Fig. 282

Single Electric  
2 Wire  
Medium Screw



Fig. 288

Double Electric  
2 Wire  
Medium Screw



Fig. 289

Electric  
3 Wire  
Mogul



Fig. 1082

Size No.	Diameter Overall Inches	Diameter Opening In Light Inches	Fig. 282 Only Each	*Fig. 282 Complete Each	Fig. 288 Each	Fig. 289 Each	Fig. 1082 Each
1	4 3/4	3 3/4	\$2.00	\$4.00	\$3.00	\$5.00	\$5.25
2	5 3/4	4 3/4	3.00	5.00	3.00	\$5.00	5.25

\*Complete with Burner, Wick and Chimney  
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



Fig. 131

No.	Galvanized Each	Width Inches	Height Inches
1	\$.65	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

FOR NAVIGATION LIGHTS  
GALVANIZED MALL. 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.

Electric Adapter  
BRASS—DOUBLE CONTACT  
FOR ROYAL LIGHTS FIGS. 89 to 92 Inc.



Fig. 138

Each	Diam. Overall Inches	Opening In Light Inches	Weight Ounces
\$1.00	2 3/8	1 1/8	1 1/2

Mounting Brackets  
GALVANIZED SHEET IRON



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.

### Color Shield

FOR COMBINATION LIGHTS  
DIVIDES RED AND GREEN LENSES

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

Made of heavy gauge brass or galvanized iron.



Fig. 130

Galvanized Each	Polished Brass Each
\$1.00	\$1.25





## Fresnel Ball Globes

1½ INCH DIAMETER

For pole lights, Figs. 404, 600, 601, 602, 603, 609, 846, 1145.



Fig. 604

Outside diameter 1½ in.  
Height overall 1⅞ in.  
Diameter of opening 1 in.  
Net weight, each 1¼ oz.

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

2½ INCH DIAMETER

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



Fig. 250

Outside diameter 2½ in.  
Height overall 2⅝ in.  
Diameter of opening 1½ 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 1½ in.  
Diameter of thread 2 in.  
Net weight, each 7 ozs.

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

3 INCH DIAMETER

With threaded base. For mast lights, Figs. 103, 104.



Fig. 249

Outside diameter 3 in.  
Height overall 3⅞ in.  
Diameter of opening 2¼ in.  
Diameter of thread 2¼ in.  
Net weight, each 10 ozs.

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

3½ INCH DIAMETER

With threaded base for mast and stern lights, Figs. 83-112-113-145-309.



Fig. 106

Outside diameter 3½ in.  
Height overall 5 in.  
Diameter of opening 2¾ in.  
Diameter of thread 3⅞ in.  
Net weight, each 1¼ 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

2¾ INCH DIAMETER

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



Fig. 77

Outside diameter 2¾ in.  
Height overall 5½ in.  
Diameter of opening 1⅞ in.  
Diameter of Thread 2½ in.  
Net Weight Each 13 oz.

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

## Ribbed Diffusing Dome Glasses

SHALLOW



Fig. 257

For Dome Lights Figs. 294-555-1147.

Trade Size Inches	Each	Diam. Overall Inches	Depth Inches
3	\$1.00	2¾	¾
4	1.25	4	7/8
5	1.65	5	1 1/8
6	2.50	6	1 1/2

## Frosted Dome Glasses

SHALLOW



Fig. 132

For Dome Lights Figs. 296-753-1147.

Trade Size Inches	Each	Diam. Overall Inches	Depth Inches
3	\$1.00	2⅞	¾
4	1.25	4	1/2
5	1.65	5	¾
6	2.50	6	7/8
8	3.25	7¾	7/8

## Ribbed Opal Dome Globes



Fig. 133

For Dome Lights, Fig. 385.

Outside Diam. Inches	Each	Extreme Depth Inches
4¼	\$2.25	1⅞
5⅞	3.50	1¾

## Opal Globe WITH FLANGE



Fig. 31

Diameter Overall Inches	Each	Extreme Depth Inches
2¾	\$ .50	1½





### Fresnel Lenses

FOR SIDE AND COMBINATION LIGHTS  
112½ DEGREES

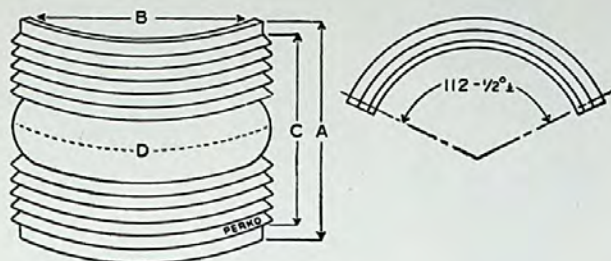


Fig. 259

For Motor Boats	A Inches	B Inches	C Inches	D Inches	Red or Green Each
Class A Comb.	2 <sup>1</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	3	\$1.00
Class 1 Comb.	3 <sup>1</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	1.50
Class 2 Side	4 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>16</sub>	3 <sup>11</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>4</sub>	2.10
Class 3 Side	5 <sup>3</sup> / <sub>16</sub>	3 <sup>11</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>8</sub>	5 <sup>9</sup> / <sub>16</sub>	2.60

For Vessels over 65 ft.

No. 8 Side	5 1/2	4 1/8	4 13/16	5 7/8	4.25
No. 0 or 9 Side	5 1/2	5 3/4	5	8 5/16	6.00
No. 1 or 10 Side	6 3/4	6	6	8 3/8	8.50
No. 2 or 11 Side	7 1/2	8 1/2	6 7/8	11 3/8	11.75
No. 3 Side	8 1/2	9 3/4	7 3/4	13	13.00

Note — We can supply Class 1 Comb. Lenses in clear or amber. Classes 2 or 3 Side in clear use above prices.

FOR BOW LIGHTS—180 DEGREES

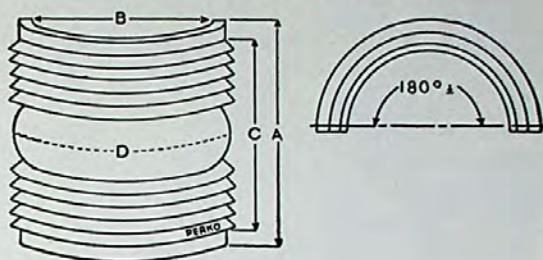


Fig. 260

For Motor Boats	A In.	B In.	C In.	D In.	Clear Each	Red or Green Each
Class 1	3 <sup>7</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>4</sub>	2 <sup>7</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>8</sub>	\$2.00	\$3.30
Class 2	4 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>8</sub>	2.10	3.30
Class 3	5 <sup>3</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>8</sub>	4 <sup>3</sup> / <sub>16</sub>	7 <sup>13</sup> / <sub>16</sub>	2.60	4.25
No. 16	7 <sup>3</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>8</sub>	12 <sup>3</sup> / <sub>8</sub>	10.50	14.50

No. 16 lens used in pier lights figs. 59, 125, 1005.  
Note — Classes 1 and 2 can be supplied in blue or amber. Class 3 in blue and No. 16 in amber. Use above prices applying to red or green.

FOR MASTHEAD LIGHTS—225 DEGREES

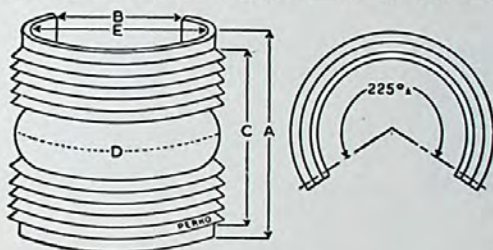


Fig. 256

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 7/8	7 5/8	18 5/8	7 3/4	13.75	22.50

Size No. 3 in clear and red only.

FOR ANCHOR LIGHTS—360 DEGREES

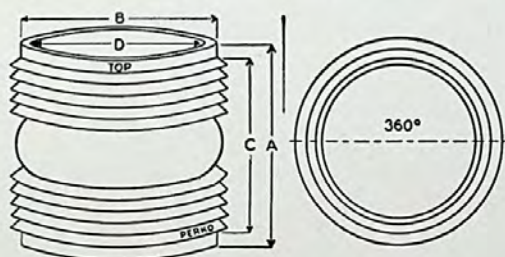


Fig. 261

For Motor Boats	A In.	B In.	C In.	D In.	Clear Each	Colored Each
Junior	3 <sup>3</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	\$1.50	\$2.00
Senior	4 <sup>1</sup> / <sub>4</sub>	4	3 <sup>9</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>16</sub>	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. Amber in Junior, Senior and No. 0 sizes only. Size No. 3 in clear and red only.

FOR STERN LIGHTS—135 DEGREES

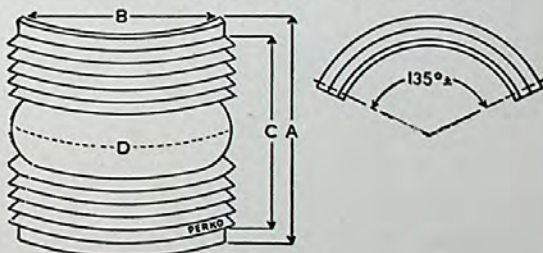


Fig. 269

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. Size No. 3 cannot be supplied in green.





### 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	7/8
2-A	14.40	1/4	7/8

### 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 1/4
2	10.80	5 1/2	2 1/4
2	10.80	6	2 1/4
2-A	10.80	6	2 1/4

Specify height of chimney when ordering.

### Brass Burners



Fig. 246

No.	Per Dozen	Diam. Thread Inches	Width Wick Inches
0	\$3.00	7/8	1/2
1	3.50	7/8	3/8
2	5.20	1/4	3/8

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

### Hornet Chimney and Burner CLEAR CHIMNEY—ALL BRASS BURNER Used on Cabin Lamp Fig. 141 Size 1



Fig. 230



Fig. 231

Burner used with Flat Wick Fig. 302 No. 0 Size

Chimneys Per Dozen	Burners Per Dozen	Chimney Size Inches	Burner Thread Inches
\$6.00	\$6.00	4 5/8 x 1 7/8	7/8



Fig. 302

### Flat Wicks

	Per Dozen
Flat Wicks, No. 0, 1/2 inch wide	\$ .48
Flat Wicks, No. 1, 3/8 inch wide	.60
Flat Wicks, No. 2, 7/8 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 3/8 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

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.



Fig. 262

### 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 Inches	Clear Each	Frosted or Colored Each	Diameter		Height Overall Inches
			Top Inches	Bottom Inches	
6	\$2.50	\$5.50	3 1/8	3 1/8	6 3/4
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	1/8

Maximum between lock nuts 1/8".

With watertight cap and chain, add \$ .90 each.  
Chromium plated, add \$ .25 each.

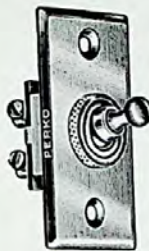


Fig. 718

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

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

## New Push and Pull Switch

ALL BRASS THROUGHOUT

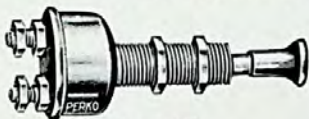


Fig. 105

Polished Brass Each	Chromium Plated Each	Diam. Neck In.	Lgth. Neck In.	Lgth. Overall In.
\$ .80	\$ 1.00	3/8	1	2 3/4

## New Push and Pull Switch with Face Plate

ALL BRASS THROUGHOUT

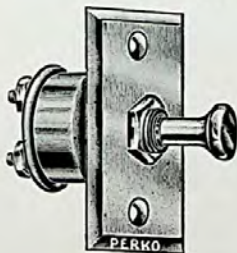


Fig. 216

Polished Brass Each	Chromium Plated Each	Neck Diam. Inches	Diam. Body Inches	Dimensions Face Plate Inches
\$ 1.00	\$ 1.20	3/8	1 1/8	1 x 1 1/8

## Push and Pull Switch

HEAVY DUTY—WITH IVORY KNOB

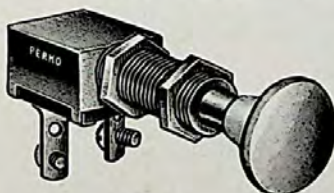


Fig. 94

Heavy duty 2 point 2 terminal with ivory tenite knob.

Neck for 7/8 inch wood, 3/8 inch hole.

Each ..... \$ .90

## Momentary Starter Switch

OR DASHBOARD HORN BUTTON

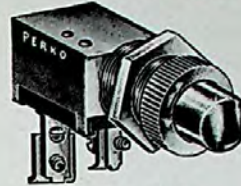


Fig. 255

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

Neck for 7/8 in. wood, 3/8 in. hole.

Each ..... \$ 1.30

## Ignition Lock Switch

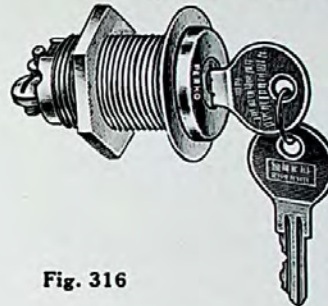


Fig. 316

Brass lock and switch with chromium plated face plate, brass keys.

2 terminal lock switch with two keys.

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

Each ..... \$ 1.95

## Knife or Battery Switches

FIBRE BASE—SINGLE POLE—30 AMP.



Fig. 70

Single Throw Each	Double Throw Each
\$ 1.40	\$ 1.70

FLAT TYPE



Fig. 74

Single Throw Each	Double Throw Each
\$ .80	\$ .90

## 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	3/8	1 1/4
2	.80	2 1/4	1 3/8	3/8	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 $\frac{1}{8}$	1 $\frac{1}{8}$	4
3 wire	2.40	2 $\frac{3}{8}$	1 $\frac{1}{8}$	4

Note — When used with the rubber grommet in cap these will accommodate  $\frac{3}{8}$  inch outside diameter cable. Without grommet, use  $\frac{5}{16}$  inch O. D. cable.

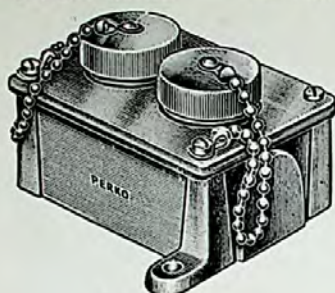


Fig. 1265

GANG TYPE  
2 wire only

Gang	Size Inches	Weight Pounds
2 gang	4 $\frac{1}{8}$ x 3 x 2	3
3 gang	6 $\frac{1}{4}$ x 3 x 2	3 $\frac{3}{4}$
4 gang	8 x 3 x 2	5 $\frac{1}{4}$

### Receptacles

FURNISHED UNTAPPED UNLESS SPECIFIED  
MAXIMUM I. P. S. THREAD  $\frac{1}{4}$  INCH



Fig. 1262

SURFACE TYPE

2 wire only

Each	Diam. Inches	Height Inches	Weight Pounds
\$4.50	3	1 $\frac{3}{8}$	2 $\frac{1}{4}$

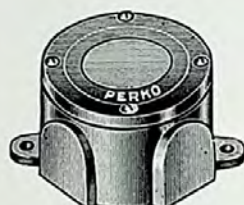


Fig. 1257

With rubber gasket.  
For 4 way tapping.

No.	Each	Inside Diam. Inches	Weight Pounds
1	\$3.25	2 $\frac{1}{4}$	1
2	4.00	3	1 $\frac{3}{4}$

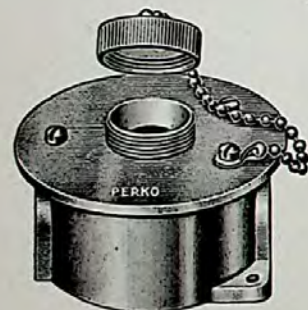


Fig. 1263

FLUSH TYPE

2 wire only

Each	Diam. Box Inches	Diam. Flange Inches	Depth Inches	Weight Pounds
\$7.00	3	4	1 $\frac{1}{8}$	2 $\frac{1}{2}$

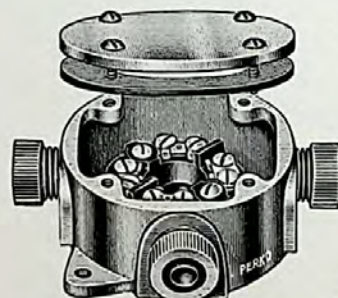


Fig. 1252

With 4 wire phenolic connection block and rubber gasket.

Complete Each \$5.25

Spare Blocks Each	Weight Pounds
\$1.50	1 $\frac{3}{4}$

Price does not include packing glands in illustration.

### Watertight Fuse Box

CAST BRONZE—SURFACE TYPE

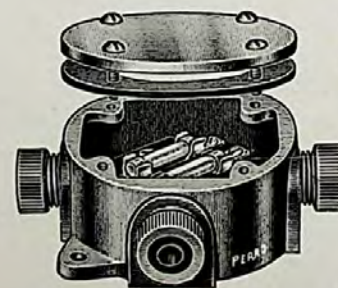


Fig. 1255

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

Complete Each	Spare Fuse Blocks Each	Weight Pounds
\$6.25	\$2.00	1 $\frac{3}{4}$

Price does not include fuses or packing glands in illustration.

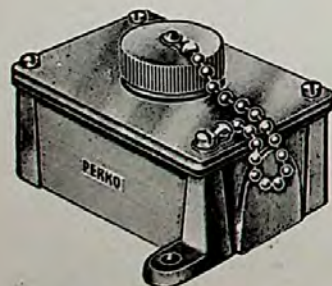


Fig. 1264

RECTANGULAR TYPE

2 and 3 wire

Each	Size Box Inches	Weight Pounds
\$5.25	4 $\frac{1}{8}$ x 3 x 2	3
7.25		

NOTE — ALL BOXES ABOVE CAN BE FURNISHED WITH PACKING GLANDS FOR CABLE ENTRANCE AS ILLUSTRATED ON FIG. 1255. ADD \$1.50 FOR EACH GLAND. STATE NUMBER AND POSITION. TAPPING ONLY, ADD \$ .30 PER HOLE.





**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**

**HEAVY DUTY TYPE—10 AMP.—2 WIRE  
DOUBLE**



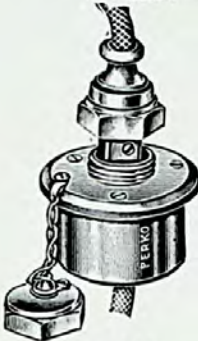
Complete With Plug Each	Plug Only Each	Diam. Plate Inches	Depth Inches
\$6.80	\$3.00	2 1/4	3/4

**Fig. 968**  
FLUSH TYPE WITH BOX  
5 AMP.—BOTTOM INLET—2 WIRE



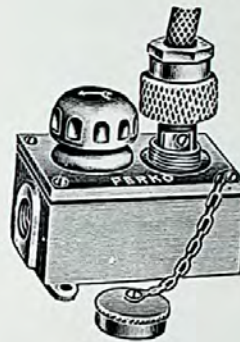
Complete With Plugs Each	Plugs Only Each	Length Inches	Width Inches	Depth Inches
\$13.50	\$3.00	3 1/4	2 1/4	1 5/8

**Fig. 972**



Complete With Plug Each	Plug Only Each	Diam. Plate Inches	Diam. Box Inches	Depth Box Inches
\$8.00	\$3.00	2 1/4	1 1/2	1 1/8

**Fig. 969**  
HEAVY DUTY TYPE—10 AMP.—2 WIRE



Complete With Plug Each	Plug Only Each	Length Inches	Width Inches	Depth Inches
\$13.25	\$3.00	3 1/4	2 1/4	1 5/8

**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
\$10.00	\$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, \$6.00 each.

**Watertight Push Buttons**  
CAST BRONZE

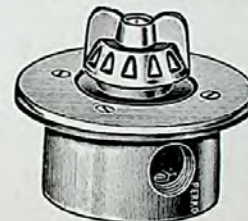


**Fig. 978**

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 5/8

**Watertight Snap Switch**  
FLUSH TYPE OR SURFACE TYPE—10 AMP.  
2 WIRE



**Fig. 974**

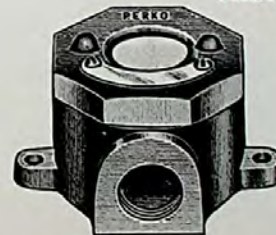
Ratchet under knob to prevent turning in wrong direction.

	Diam. Plate Inches	Diam. Box Inches	Depth Box Inches
Flush Type	3 1/2	2 1/2	1 1/2
Surface Type		2 5/8	1 1/2

	Flush Type	Surface Type
Single Pole Switch	\$9.75	\$8.00
Double Pole Switch	10.25	8.80

**Watertight Push Buttons**  
CAST BRONZE



**Fig. 975**

Tapped one way for 1/2 inch conduit.

Each	Height Inches	Width Inches	Weight Pounds
\$6.50	1 3/4	2 5/8	1 1/4

Note — Above are only tapped to order, add \$ .30 for each hole. Figs. 968 and 969 are for 3/8 inch O. D. cable, heavy duty type are for 1/2 inch O. D. cable.





## 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, No. 3.

## Medium Screw Sockets

PHENOLIC—250 VOLTS—660 WATTS  
APPROVED BY U. 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 3/8	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
\$ .75	1 3/8	2 1/4	3/32	1 3/8	1 1/2

## Watertight Connection

BRASS—DOUBLE CONTACT



Fig. 477

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

Polished Brass Each	Chromium Plated Each	Composition Interiors Only Per Set	Size Inches
\$3.00	\$4.00	\$ .50	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 3/8	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 grommet 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
\$2.75	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

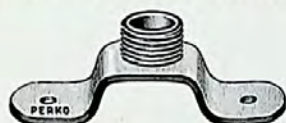


Fig. 341

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 $\frac{1}{16}$	1 $\frac{1}{2}$
2	1.20	2 $\frac{1}{4}$	$\frac{7}{8} \times 2 \frac{3}{4}$	2 $\frac{1}{16}$	3

### 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, and various types of dome lights.

No.	Each	Length Overall Inches	Weight Per Dozen Ounces
0	\$ .65	1 $\frac{3}{8}$	7
1	.65	1 $\frac{5}{8}$	8
2	.65	2	11
3	.65	2 $\frac{3}{8}$	14

### Socket Support

BRASS—FOR FIG. 276 SOCKET

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



Fig. 277

Each	Height Inches	Size Base Inches	Weight Dozen Ounces
\$ .60	$\frac{7}{8}$	$\frac{3}{8} \times 1 \frac{1}{2}$	6

### Bayonet Double Contact Socket

BRASS CASE—HARD RUBBER INSULATION



Fig. 747

No.	Each	Length Inches	Diam. Inches	Weight Dozen Ounces
1	\$ .35	$\frac{7}{8}$	$\frac{11}{16}$	5
2	.35	1	$\frac{11}{16}$	5
3	.35	1 $\frac{1}{4}$	$\frac{11}{16}$	6
4	.35	1 $\frac{1}{4}$	$\frac{11}{16}$	6
5	.35	1 $\frac{1}{4}$	$\frac{11}{16}$	6

No. 1 Wires enter side, screws in bottom.  
No. 2 Wires enter bottom, screws in opposite sides.  
No. 3 Wires enter bottom, screws in opposite sides.  
No. 4 Wires enter bottom, screws in same side.  
No. 5 Wires enter side, screws in bottom.

Note — No. 1 used with rebulbing feature in stream-line lights such as Figs. 1138, 1139, 1140, etc.

### Navy Standard Electric Sockets

PHENOLIC INSULATION—BRONZE PARTS



Candelabra Screw  
Fig. 15



Bayonet Double Contact  
Fig. 76

Fig. 15 complies with Navy Drawing 9-S-2036-L.  
No. 76 complies with Navy Drawing 9-S-4634-L.

Fig.	Each	Height Inches	Size Base Inches	Weight Per Dozen Ounces
15	\$ .50	1 $\frac{1}{8}$	1 x 1 $\frac{1}{2}$	12
76	.65	1 $\frac{1}{8}$	1 x 1 $\frac{1}{2}$	16

### Bayonet Sockets

PHENOLIC—SINGLE AND DOUBLE CONTACT



Fig. 472

No.	Each	Type	Height Inches	Diam. Base Inches	Weight Dozen Ounces
20	\$ .70	Double contact	1	1 $\frac{3}{8}$	9
21	.70	Single contact			





## Double Contact Plug and Socket



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. Oz. Doz.
\$1.00	1 1/8 x 1 1/2	1 1/8	1 3/8	14

Fig. 399

## Brass Dagger Connectors

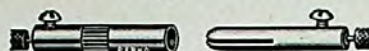
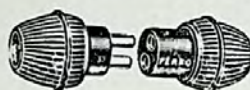


Fig. 283

These are very handy "pull apart" connectors for many uses. Dimensions 1 1/2 x 1 3/8 inches.

Each Set (as illustrated).....\$ .25

## Double Contact Connectors HARD RUBBER—BRASS CONTACTS



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

Fig. 749

## 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

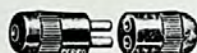
Size Flange Inches	C to C of Holes Inches
1 1/8 x 1 1/2	1 1/8

Fig. 377

## New "Midget" Connectors

BAKELITE BODY—BRASS CONTACTS  
DOUBLE CONTACT

Designed for use in limited space. Split pins insure a firm positive connection.



Each	Size Inches	Weight Dozen Ounces
\$ .75	1 1/8 x 1 1/8	6

Fig. 26

## Bayonet Double Contact Adapter

ALL BRASS

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.



Fig. 458

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

## 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

## Bayonet Double Contact Adapter

BRASS AND HARD RUBBER

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



Fig. 355

Each	Overall Length Inches	Diam. Thread Inches	Weight Dozen Ounces
\$ .70	1 1/4	3/8	8

## Electric Adapters



Fig. 405

No.	Description	Price
650	Bayonet double contact to medium screw, each	\$ .70
670	Medium screw to bayonet double contact, each	\$ .80
680	Medium screw to bayonet single contact, each	\$ .80
830	Medium screw to foreign bayonet double contact, each	\$ .90
X12	Mogul to medium screw, ea.	\$ .95

## Brass Cable Straps

FOR CABLE, TUBING, CONTROL WIRE, ETC.



Fig. 121

Inside Diam. Inches	Per 100	Length Inches	Width Inches
1/8	\$1.80	1 1/8	1/2
1/4	2.00	1 1/4	1/2
3/8	2.20	1 3/8	1/2
1/2	2.30	1 1/2	1/2
3/4	2.50	1 3/4	1/2
1	2.75	2	1/2
1 1/4	3.30	2 1/4	1/2
1 1/2	3.60	2 1/2	1/2

## FOR LEAD COVERED CABLE



Fig. 1076

Per 100	Size Inside Inches	Length Inches	Width Inches
\$3.50	1 1/2 x 1 1/8	1 1/8	1/2



## "Perko" Zinc Marine Oilers

SPRING BRASS BOTTOM



Fig. 326

Heavy gauge zinc with spring brass bottom, cut threads. Spouts are interchangeable.

No.	Complete Per Gross	Extra Spouts Per Gross	Capacity Ounces	Diam. Inches	Length Spout Inches	Weight Per Gross Pounds
3	\$120.00	\$40.00	8	4	4	40
4	150.00	46.00	12	4½	6	48

## Brass Axe Brackets

18 GAUGE—POLISHED

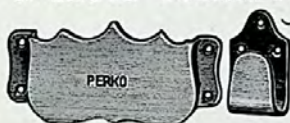


Fig. 325

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

## 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

## 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

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



Fig. 281

No.	Color	Per Dozen
1	Red	\$5.75
2	Blue	12.00
3	White	12.00
4	Green	12.00

## 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 10½ inches high.

## Steel Boat Bailers

GAVANIZED—RIVETED HANDLE



Fig. 180

Each	Diameter Inches	Weight Pounds
\$2.75	8¼	1



## “PERKO” SEALED BEAM SEARCHLIGHTS

POLISHED BRASS OR CHROMIUM PLATED

WITH CLEAR LENS — NOT FLUTED

SIZE NO. 1 — 6 VOLT ONLY — 30 WATT — RANGE ABOUT 1/4 MILE — 50,000 BEAM CANDLEPOWER  
 SIZE NO. 2 — 6 AND 12 VOLT — 40 WATT — RANGE ABOUT 1/3 MILE — 115,000 BEAM CANDLEPOWER.

A “SEALED BEAM” unit consisting of the bulb, reflector and lens all in one piece is the most practical for marine searchlights. It is absolutely watertight and vibration proof.

A watertight packing gland is installed around control rod to prevent entrance of water where rod passes thru pilot house roof.

NO EXPOSED WIRING

### DECK CONTROL WITH TOGGLE SWITCH IN HEAD



Fig. 436

### PILOT HOUSE CONTROL



Fig. 437

Length of control below base, 8 inches.

No.	6 Volt		Diam. Lens Inches	Diam. Base Inches	Height Above Inches	Weight Pounds
	Polished Brass Each	Chromium Plated Each				
1	\$19.00	\$23.00	4½	4	9	2
2	\$19.50	\$23.50	6	4	10½	2½

12 volt, size No. 2 only, add \$1.50 each.

### WITH CLAMP-ON BRACKET WITH TOGGLE SWITCH IN HEAD



Fig. 438

For clamping to windshield, stanchion or any other vertical mounting. The light can readily be detached for portable operation.

The clamp is cast bronze and will fit a mounting up to 1½ inches in diameter.

Supplied for right or left side mounting, right supplied unless otherwise specified.

No.	6 Volt		Diam. Lens Inches	Weight Pounds
	Polished Brass Each	Chromium Plated Each		
1	\$20.50	\$24.50	4½	2
2	\$21.00	\$25.00	6	2½

12 volt, size No. 2 only, add \$1.50 each.

### WITH SCREW-ON BRACKET WITH TOGGLE SWITCH IN HEAD

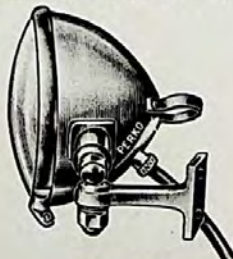


Fig. 439

For mounting on side of cabin or deck house. The light can readily be detached for portable operation. The bracket is cast bronze.

Supplied for right or left side mounting, right supplied unless otherwise specified.

No.	6 Volt		Diam. Lens Inches	Dimensions Bracket Inches	Weight Pounds
	Polished Brass Each	Chromium Plated Each			
1	\$20.50	\$24.50	4½	2½ x ¾	2
2	\$21.00	\$25.00	6	2½ x ¾	2½

12 volt, size No. 2 only, add \$1.50 each.





### New Telescoping Searchlights

FOR RUNABOUTS  
FOR MOUNTING AFT OF WINDSHIELD  
SEALED BEAM—6 OR 12 VOLTS

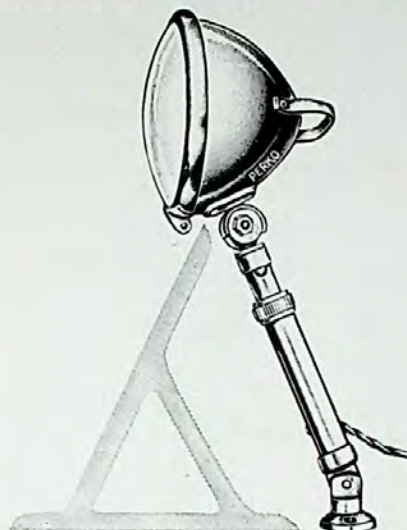


Fig. 240

Completely adjustable in height and angle, to permit mounting on any type and size of runabout regardless of height or angle of windshield.

Height can be increased to 15 inches below the head or reduced to 8 inches if desired. Lights with greater height can be supplied to order.

Complete with toggle switch in head.

No.	6 Volt		Diam. Lens Inches	Dimensions Base Inches	Weight Pounds
	Polished Brass Each	Chromium Plated Each			
1	\$24.00	\$28.00	4 1/2	3 x 1 1/2	3
2	24.50	28.50	6	3 x 1 1/2	3 1/4

12 volt, Size No. 2 only, add \$1.50 each.

### Combination Light and Searchlight

POLISHED BRASS OR CHROMIUM PLATED  
SEALED BEAM SEARCHLIGHT  
6 VOLT—30 WATT—RANGE 1/4 MILE



Fig. 416

The searchlight is our 4 1/2 inch diameter sealed beam type. The combination light is our Fig. 1140 with re-bulbing feature. The searchlight has a toggle switch.

	Polished Brass Each	Chromium Plated Each	Height Overall Inches	Size Base Inches	Weight Pounds
	\$23.50	\$27.25	9	3 3/4 x 6 1/4	2 1/4

### New Remote Control Searchlights

FOR OPERATION FROM DASH  
SEALED BEAM—6 OR 12 VOLTS

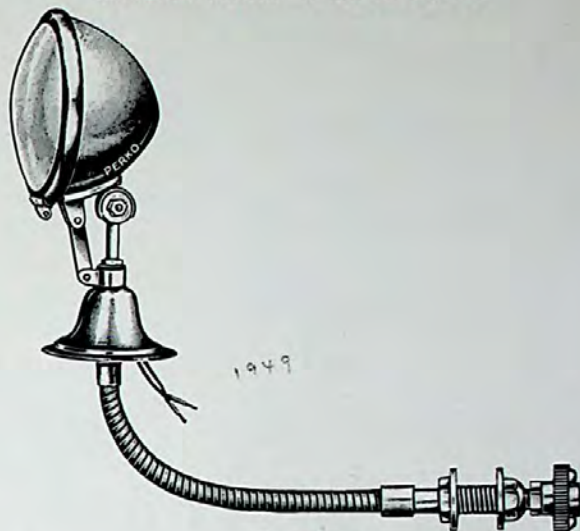


Fig. 241

These operate with extreme ease in both the vertical and horizontal range by an effortless twist or pull of the attractive control handle on the dash.

The light may be mounted at any desired location on the deck.

The control casing is galvanized steel with okoseal rubber covering which protects the casing against corrosion and acts as a grease retainer.

Horizontal angle of beam is 360 degrees. Vertical angle of beam is 27 degrees below and 35 degrees above horizontal.

Electric cable is not exposed, it passes through controls and exits under the base.

No.	Diam. Lens Inches	Height Above Deck Inches	Diam. Base Inches	Weight Pounds
1	4 1/2	10 1/2	5 1/4	2 1/2
2	6	12	5 1/4	3

No.	6 Volts		6 Volts	
	With 30 Inch Control Polished Brass Each	With 40 Inch Control Chromium Plated Each	With 30 Inch Control Polished Brass Each	With 40 Inch Control Chromium Plated Each
1	\$37.50	\$42.50	\$38.00	\$43.00
2	38.00	43.00	38.50	43.50

With special length of control—price on application.

### Sealed Beam Spotlight Units

6 OR 12 VOLTS



Fig. 433

The sealed all glass unit used in the searchlights on this and the preceding page. The lens is hermetically sealed to the reflector. Dirt and moisture are positively excluded. The reflector cannot tarnish.

No.	6 Volt Each	12 Volt Each	Diam. Inches	Wattage	Beam C. P.	Range About
1	\$2.80		4 1/2	30	50M	1/4 mile
2	3.00	\$4.00	6	40	115M	1/3 mile





## "Pathfinder" Searchlights

WITH CHROMIUM PLATED REFLECTOR  
6 OR 12 VOLTS—50 CANDLEPOWER  
BAYONET DOUBLE CONTACT SOCKET  
WATERTIGHT GLAND  
RANGE—ABOUT 1/3 MILE  
NO EXPOSED WIRING

### Pilot House Control



Fig. 1022

Length of control below base, 8 1/2 inches.

Polished Brass Each	Chromium Plated Each	Diam. Lens Inches	Diam. Base Inches	Diam. Head Inches	Height Above Deck Inches	Weight Pounds
\$34.00	\$40.00	7	6 1/4	7 1/4	14	4 1/2

## Deck Control

WITH TOGGLE SWITCH IN HEAD



Fig. 1023

Polished Brass Each	Chromium Plated Each	Diam. Lens Inches	Diam. Base Inches	Diam. Head Inches	Height Above Deck Inches	Weight Pounds
\$24.00	\$29.00	7	6 1/4	7 1/4	12	3

Note — spare lenses, reflectors and bulbs, see pages 33 and 50.

## "Sunbeam" 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 1/2 MILE  
For higher power see notes below.

### Pilot House Control

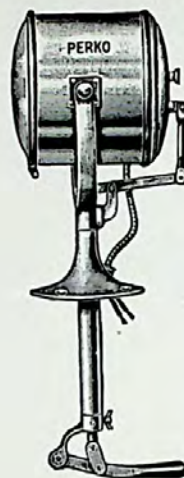


Fig. 306

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

Length control rod below base, 10 inches.

No. 4 has magnin mirror reflector and 100 C. P. bulb, range about 1/4 mile.

## Deck Control

WITH TOGGLE SWITCH IN HEAD

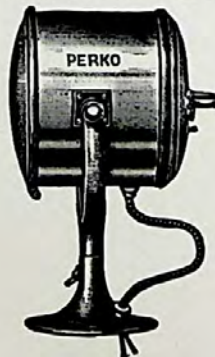


Fig. 305

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

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

Note — Figs. 305 and 306 with 6 or 12 Volt 100 C. P. bulb, 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 50.





**“Perko” High Power Searchlights**

WITH MIRROR REFLECTOR—MEDIUM SCREW SOCKET

VOLTAGE—6, 12, 32, AND 120 VOLTS

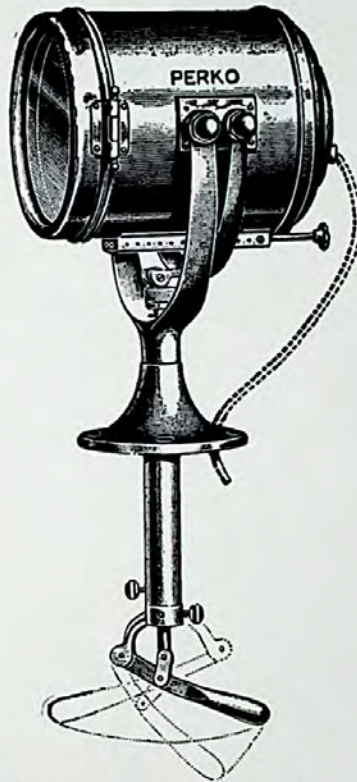
PACKING GLANDS AT CABLE AND CONTROL ROD ENTRANCES

**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.

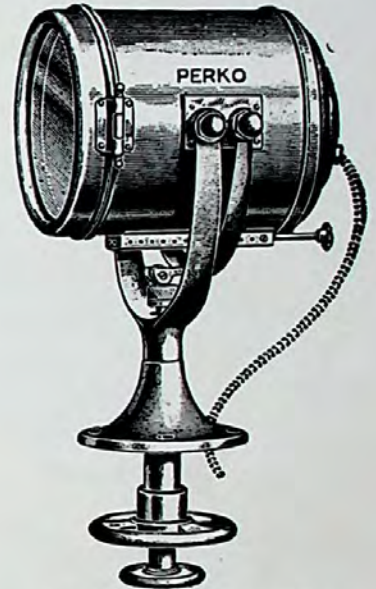
**BULBS**—Bulbs furnished as standard equipment in various voltages are as follows—6 volts, 18 amps.; 12 volts, 18 amps.; 32 volts, 8 amps.; 120 volts, 500 watt. Can also furnish 32 volt, 400 watt and 120 volts, 250, 400 or 1000 watt bulbs for additional price. See notes below.



DECK CONTROL  
Fig. 480



PILOT HOUSE CONTROL  
Fig. 297



PILOT HOUSE CONTROL  
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

—Fig. 480—

—Fig. 297—

—Fig. 529—

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 50.  
 Special length of pilot house control to order, price on application.  
 Spare medium screw sockets, \$ .80 each.





## New "Perko" Docking Lights

CAST ALUMINUM AND BRONZE  
WITH WIDE AREA SEALED BEAM LIGHT UNIT  
6 VOLTS—30 WATTS

Designed for illuminating the surrounding area at night when approaching a dock, mooring or obstruction especially when the narrow beam of the searchlight is inadequate.

These lights are watertight and for installation in the hull below the deck level thus giving non-glare illumination similar to that of automobile headlights.

The sealed beam units are easily adjustable upward, downward or sideways to cover the area desired.

The installation is as simple as installing a portlight and size has been kept to a minimum for that purpose.

The exterior frame and glass retaining ring is cast bronze, all interior parts are cast aluminum alloy.

The sealed beam unit has a clear diffusing lens.

FOR BOW

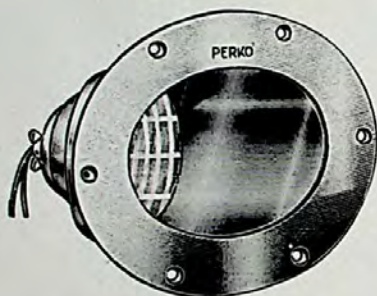


Fig. 335

Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Outside Dimensions of Frame Inches	Dimensions Opening in Hull Inches	Weight Pounds
\$25.00	\$27.50	\$30.00	10½x8¾	8¾x6¾	9½

FOR TRANSOM OR SIDE



Fig. 336

Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Outside Diameter Frame Inches	Diameter Opening in Hull Inches	Weight Pounds
\$21.00	\$23.50	\$26.00	7½	6	5½

NOTE--Fig's 335 and 336 with amber fog light lens, ADD \$ .50 each

## Mirror Reflectors FOR SEARCHLIGHTS



Fig. 427

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

Diam. Inch.	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
7	6.50	1022-1023
7½	7.25	305-306 No. 3

Cork Gaskets for Reflectors, \$ .50 each.

## Front Lens FOR SEARCHLIGHTS



Fig. 429

Diam. Inches	Each	Style	For Searchlights Fig. and Size
7	1.85	Convex	1022-1023
7¼	2.00	Convex	305-306 Nos. 3 & 4
8¾	2.25	Flat	297-480-529- 8 inch
10¼	2.60	Flat	297-480-529-10 inch
12¼	3.25	Flat	297-480-529-12 inch
14¼	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

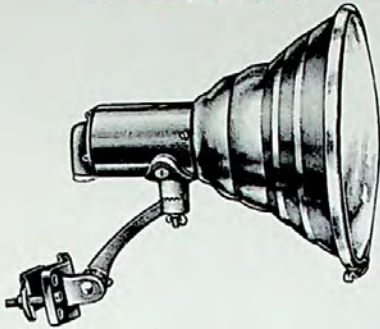


Fig. 227

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 2½ inches.

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

Each  
**\$22.00**

**DECK TYPE**  
with Medium Screw Socket



Fig. 228

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

	Diam. Lens Inches	Length Housing Inches	Diam. Base Inches	Maximum Wattage	Weight Pounds
Each	7½	8	4¼	100	3

Each  
**\$8.00**

**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.

	Diam. Lens Inches	Length Housing Inches	Maximum Wattage	Weight Pounds
Each	7½	8	100	5½

Each  
**\$11.50**

## Cargo Reflectors

HEAVY GAUGE SPUN ALUMINUM  
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 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.

Guards are galvanized.

**SINGLE LAMP TYPE**  
MOGUL SOCKET

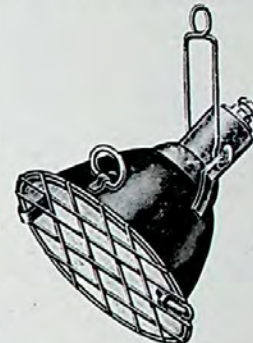


Fig. 36

No.	Each	Diam. Reflector Inches	Watts	Weight Pounds
1	\$24.00	14	300-750	6½

**CLUSTER TYPE**  
MEDIUM SCREW SOCKETS



Fig. 37

No.	Each	No. Lamps	Diam. Reflector Inches	Watts	Weight Pounds
2	\$21.50	4	16	60-100	6
3	\$23.00	5	16	60-100	6



### "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	Outside Diam. Gimbal Inches	Outside Meas. Box Inches
2	2 1/8	\$12.10	3 3/8	4 1/4 Diam.
2 1/2	2 3/8	13.75	4 1/4	5 3/8 x 5 3/8
3	3 1/8	18.70	4 3/4	6 1/8 x 6 1/8
4	4	24.20	6	7 1/8 x 7 1/8
5	4 3/4	31.35	6 7/8	8 1/2 x 8 1/2
6	5 1/4	39.60	7 7/8	9 3/8 x 9 3/8

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

### "Star" Spherical Dome Oil Compass

WITH REDUCED BLACK DIAL—MAGNIFIED COMPLETE WITH MAHOGANY BOX

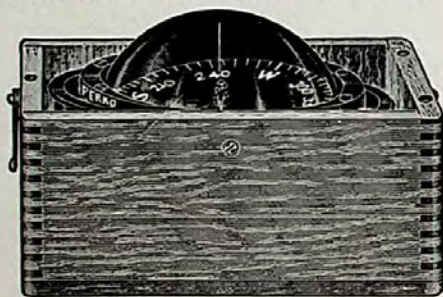


Fig. 463

The "Star" Spherical Dome Oil Compass gives to the marine field an inexpensive compass embodying many practical features not found in more expensive types.

The small diameter magnified card assures steadiness under all sailing conditions, reduced surface friction and liquid drag. It is easy to read at 15 foot distance in a standing or sitting position within a range of 130 degrees.

Diameter Dial Inches	With Box Each	Outside Diam. Gimbal Inches	Outside Meas. Box Inches
3	\$30.00	4 3/4	6 1/8 x 6 3/8
4	36.00	6	7 1/8 x 7 1/8
5	43.00	6 7/8	8 1/2 x 8 1/2
6	53.00	7 7/8	9 3/8 x 9 3/8

NOTE—6 inch size has white dial with black characters.

### "Star" Semi-Dome Oil Compasses

MAGNIFYING



Fig. 823

Trade Size Inches	With Box Each	Diam. Card Inches	Outside Diam. Gimbal Inches	Outside Meas. Box Inches
3	\$30.00	3 1/8	4 3/4	6 1/8 x 6 1/8
4	36.00	4	6	7 1/8 x 7 1/8
5	43.00	4 3/4	6 7/8	8 1/2 x 8 1/2
6	53.00	5 1/4	7 7/8	9 3/8 x 9 3/8

### "Ritchie" Spirit Compasses

REGULAR FLAT TOP—WITHOUT BOX



Fig. 987

Marked to 360 degrees with cardinal and inter-cardinal points.

Trade Size Inches	Exact Diam. Card Inches	Regular Type Each	Under-lighted Type Each	With Mahogany Box Add Each	Diam. Gimbal Ring Inches
4	4	\$42.00	\$61.00	\$11.50	6
5	4 1/2	47.00	71.00	15.00	6 7/8
6	5 1/4	56.00	81.00	18.00	8 3/8

### "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 1/4	2 1/4	4	3	11
34	13.25	2 1/4	2 1/4	4 1/2	2 3/8	12





### Cruiser Binnacle

WROUGHT BRASS—TWO PIECE



Fig. 401

Removable head allows easy access to compass. Furnished complete with double contact electric fixture 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 1/3
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	\$25.50	\$30.00	\$42.70	\$47.20
4	28.00	33.50	50.50	56.00
5	31.50	38.00	60.50	67.00

### Improved Course Protractor

INDICATES COURSE AND REVERSE COURSE TRANSPARENT

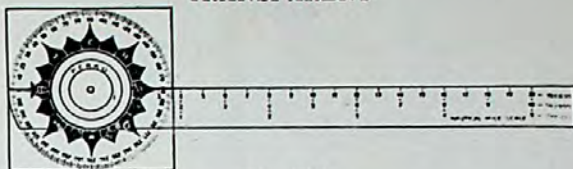


Fig. 706

Arm has various mileage 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 ..... \$ .85



Fig. 697

### Skylight Binnacle

BRASS

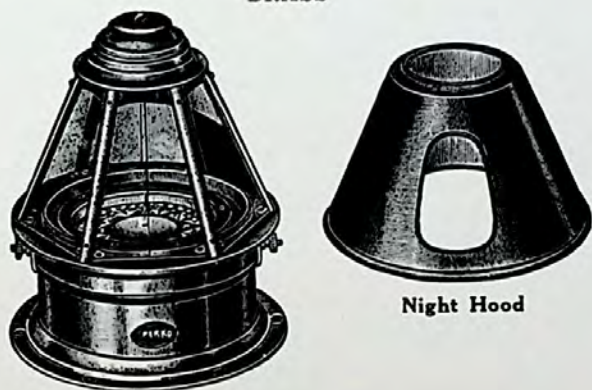


Fig. 534

Extra heavy brass throughout. Complete with night hood and double contact electric fixture.

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 3/8	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	\$4.25
15	5.00
18	6.00

### Dividers

BRASS—NICKEL-PLATED



Fig. 693

Length, 5 1/2 inches, each ..... \$2.50

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, starboard 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 ..... \$4.25

## 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 IMPROVED VALVES HOLD PRIME

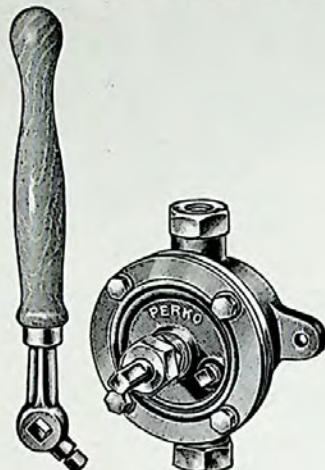


Fig. 681

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.

Intake valves have been greatly improved and priming is unnecessary even after several weeks of disuse.

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 3/8	7	14
2	49.00	1	6 1/8	9 1/4	19 1/2

## Utility Check Valve

ALL BRONZE WITH BRASS BALL CHECK AND STRAINER

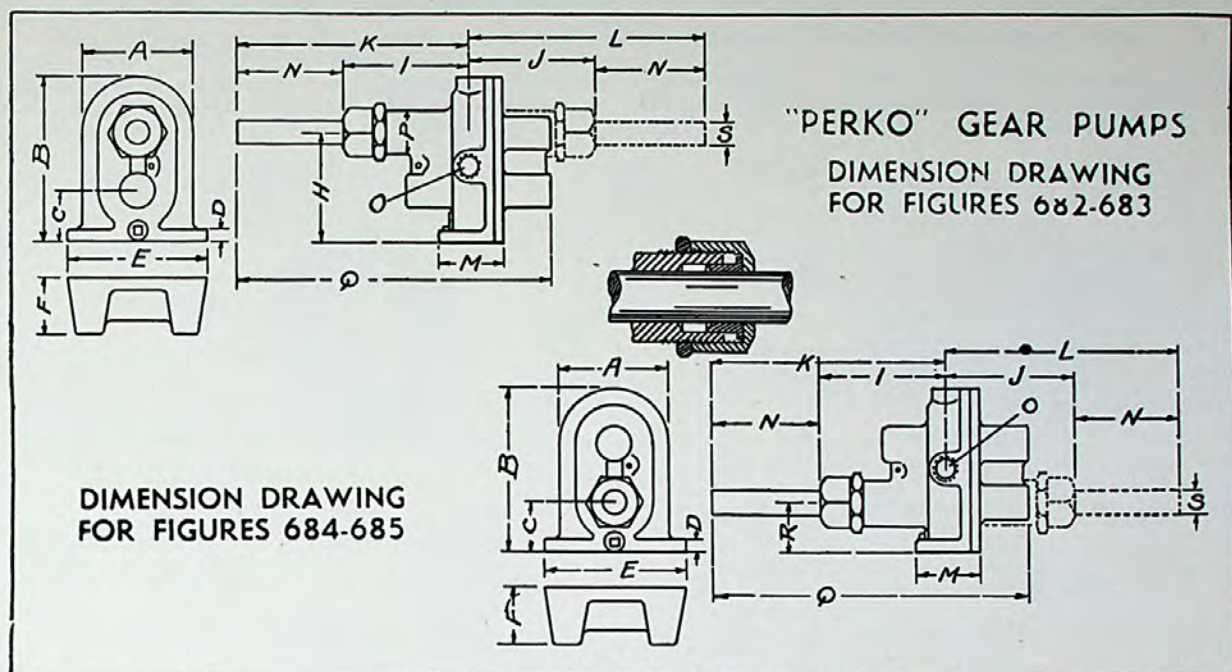


Fig. 265

Ideal for holding prime in the inlet line of galley and lavatory pumps, bilge pumps, etc. Threaded both ends.

Each	Pipe Size Inches	Length Inches	Weight Ounces
\$1.20	1/2	1 1/4	3 1/2





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 $\frac{3}{4}$	$\frac{3}{8}$	2 $\frac{1}{8}$	1 $\frac{3}{4}$	2 $\frac{3}{8}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$	1 $\frac{1}{2}$	4 $\frac{1}{2}$	1 $\frac{1}{2}$	2 $\frac{1}{2}$	$\frac{1}{4}$	1 $\frac{1}{8}$	6 $\frac{1}{8}$	1 $\frac{1}{2}$	$\frac{1}{2}$
3	2 $\frac{3}{4}$	3 $\frac{7}{8}$	1 $\frac{7}{8}$	$\frac{1}{4}$	3 $\frac{5}{8}$	1 $\frac{3}{4}$	2 $\frac{3}{4}$	2 $\frac{1}{2}$	2 $\frac{1}{8}$	5 $\frac{3}{8}$	5 $\frac{3}{8}$	1 $\frac{1}{2}$	2 $\frac{1}{2}$	$\frac{3}{8}$	1 $\frac{1}{4}$	7 $\frac{3}{8}$	1 $\frac{1}{8}$	$\frac{5}{8}$
4	2 $\frac{3}{4}$	3 $\frac{3}{8}$	1 $\frac{7}{8}$	$\frac{1}{4}$	3 $\frac{5}{8}$	1 $\frac{3}{8}$	2 $\frac{3}{4}$	3 $\frac{1}{4}$	3 $\frac{1}{2}$	5 $\frac{9}{16}$	5 $\frac{3}{8}$	1 $\frac{1}{2}$	2 $\frac{1}{2}$	$\frac{1}{2}$	1 $\frac{1}{4}$	7 $\frac{3}{8}$	1 $\frac{1}{8}$	$\frac{3}{4}$
7	3 $\frac{1}{4}$	5 $\frac{3}{8}$	2 $\frac{1}{2}$	$\frac{1}{4}$	4 $\frac{1}{16}$	1 $\frac{5}{8}$	3 $\frac{9}{16}$	3 $\frac{1}{4}$	3 $\frac{1}{2}$	5 $\frac{9}{16}$	5 $\frac{3}{8}$	1 $\frac{1}{2}$	2 $\frac{1}{2}$	$\frac{3}{4}$	1 $\frac{1}{8}$	7 $\frac{1}{2}$	1 $\frac{1}{2}$	$\frac{3}{4}$
9	3 $\frac{1}{4}$	5 $\frac{3}{8}$	2 $\frac{1}{2}$	$\frac{1}{4}$	4 $\frac{1}{16}$	1 $\frac{9}{16}$	3 $\frac{3}{8}$	3 $\frac{3}{8}$	3 $\frac{3}{8}$	5 $\frac{1}{2}$	5 $\frac{1}{2}$	1 $\frac{1}{2}$	2 $\frac{1}{2}$	1	1 $\frac{1}{8}$	7 $\frac{1}{2}$	1 $\frac{1}{2}$	$\frac{3}{8}$

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	$\frac{1}{2}$	3.2	$\frac{1}{2}$	2.8	$\frac{3}{4}$
4	7.5	$\frac{1}{4}$	6.3	$\frac{1}{2}$	5.4	$\frac{1}{2}$	4.6	$\frac{3}{4}$	3.8	1
7	13.5	$\frac{1}{2}$	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	$\frac{1}{2}$	3.45	$\frac{1}{2}$	3.1	$\frac{1}{2}$
3	7.5	$\frac{1}{2}$	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.





## "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

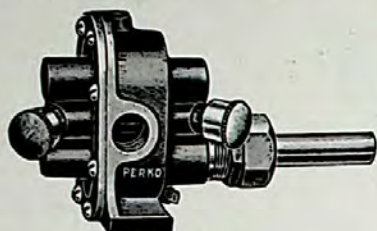


Fig. 684

### Single Upper Drive Shaft

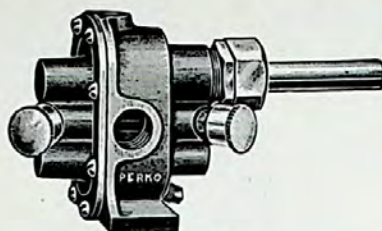


Fig. 682

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$11.50	\$14.00	1/4	1/2	3 3/4
3	13.25	16.25	3/8	5/8	5 1/2
4	14.50	17.75	1/2	3/4	6
7	19.00	21.50	3/4	5/8	9
9	20.25	23.00	1	3/8	9 1/2

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$11.50	\$14.00	1/4	1/2	3 3/4
3	13.25	16.25	3/8	5/8	5 1/2
4	14.50	17.75	1/2	3/4	6
7	19.00	21.50	3/4	5/8	9
9	20.25	23.00	1	3/8	9 1/2

### Double Lower Drive Shaft

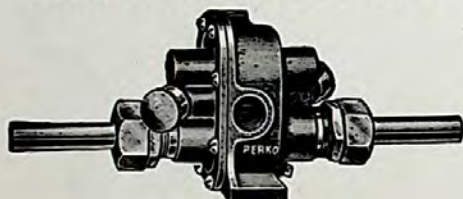


Fig. 685

### Double Upper Drive Shaft

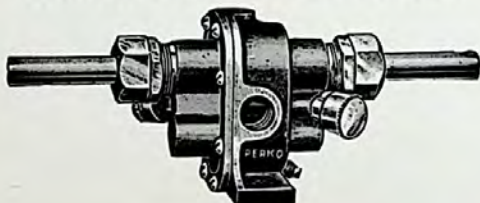


Fig. 683

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$13.25	\$16.00	1/4	1/2	4 1/2
3	15.75	18.00	3/8	5/8	6 1/4
4	17.00	19.50	1/2	3/4	6 3/4
7	22.25	24.00	3/4	5/8	9 1/2
9	23.50	26.25	1	3/8	9 3/4

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$13.25	\$16.00	1/4	1/2	4 1/2
3	15.75	18.00	3/8	5/8	6 1/4
4	17.00	19.50	1/2	3/4	6 3/4
7	22.25	24.00	3/4	5/8	9 1/2
9	23.50	26.25	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—We can supply all sizes and types above with neoprene u-cup seals instead of packing glands and nuts if preferred at same prices, please specify.

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

### "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	6.00	5.85	1.65	1.20	.65	1.05	1.35
7	3/4	4.35	4.00	8.25	7.20	1.65	1.20	.65	1.05	1.35
9	1	5.85	4.25	9.30	7.70	1.65	1.20	.65	1.05	1.35





### "Perko" Ford Gear Pumps

ALL BRONZE  
FOR MODEL A FORD MOTOR CONVERSIONS

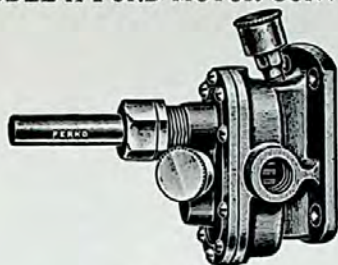


Fig. 530

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 Connections 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

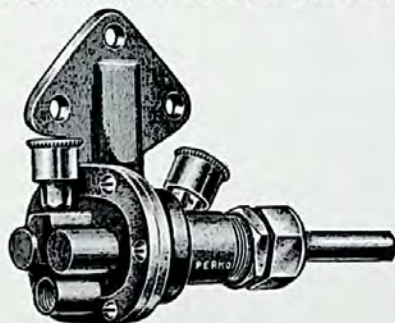


Fig. 804

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 Connections Inches	Diameter Drive Shaft Inches	Weight Pounds
\$18.50	\$22.50	3/8	1/2	4

### "Perko Rotoflex" Pump with V Belt Pulley

SHAFT SEAL—BALL BEARING PULLEY

Side pull absorbed by ball bearing and body, not by shaft. A large, double shielded, grease packed, lifetime ball bearing is mounted inside the pulley and on the pump body. Only torque is applied to the shaft. All sizes are supplied with double packed shaft seals which minimize shaft leakage and avoid necessity of tightening stuffing box. Supplied with brass grease cups.

No.	Each	Diameter Pulley Inches	No.	Each	Diameter Pulley Inches
2	\$21.00	4	5	\$34.00	6
3	25.75	6	6	52.50	6
4	28.25	6			

For dimensions, capacity and other data, see Fig. 696 above.

### "Perko Improved Rotoflex" Pumps

SYNTHETIC NEOPRENE COMPOUND ROTOR  
NEOPRENE U-CUP SEALS—LEAKPROOF  
ALL BRONZE BODY—MONEL SHAFT  
BRASS GREASE CUPS

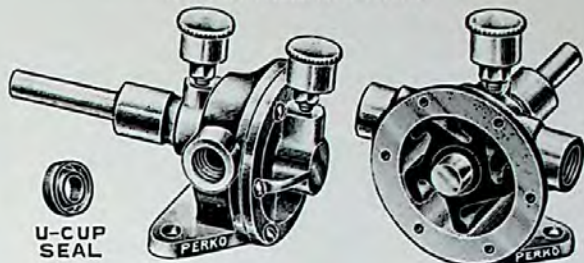


Fig. 696

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.

The use of u-cup seals eliminates packing and packing glands.

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 1/2	3 1/2
3	15.75	2.25	1/2	3/8	3 3/4	4
4	18.25	3.50	3/4	3/8	4	4 1/2
5	24.00	3.50	1	3/8	4	5
6	42.50	6.50	1 1/4	5/8	5	7 1/4

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 1/4	3 x 1 3/4	4.1	4.9	6.4	2 3/8
3	6 7/8	3 5/8 x 2 1/8	7.1	8.5	11.0	3 3/4
4	8 3/8	4 x 3	13.0	16.5	22.0	5 3/4
5	8 3/8	4 1/8 x 3	15.7	19.2	26.0	6
6	9 1/2	5 1/2 x 3 1/2	19.5	33.5	48.0	14

NOTE — Size No. 6 has argute oilless bushings instead of grease cups.

\*Recommended maximum for continuous duty. Capacity shown based on 0 lbs. pressure with special length of shaft, price on application. Motor recommended 1/4 to 1/2 H.P. for sizes No. 2-3-4-5 and up to 3/4 H.P. for size No. 6.

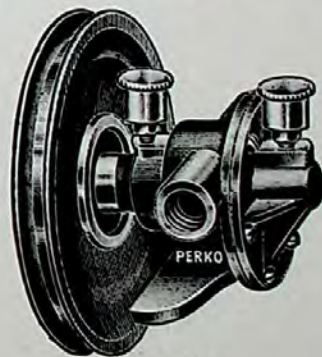


Fig. 703





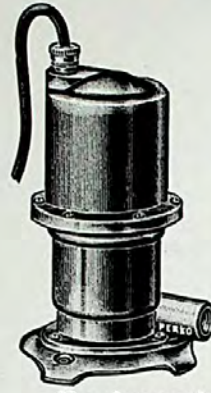
**"Perko Watertite" Electric Bilge Pumps**

ALL CAST BRONZE—6-12-32 and 110 VOLTS

WATERTIGHT—VAPORPROOF—WILL OPERATE ENTIRELY SUBMERGED



Automatic  
Fig. 724



Non-Automatic  
Fig. 725



Non-Automatic  
with Pipe Inlet  
Fig. 726

A decided improvement in electric bilge pumps. The heavy duty motor is sealed in a watertight and vapor-proof cast bronze housing, complete submergence will have no ill effect. Water from the lower pump section cannot enter the upper motor section. The pump shaft is sealed where it passes through the partition.

FIG. 724 AUTOMATIC PUMP—Has a 3½ inch diameter copper float protected by 80 square inches of heavy brass strainer. The float is adjustable to operate at various depths. Outlet for ½ inch pipe or 1 inch hose.

FIG. 725 NON-AUTOMATIC PUMP—Has a large diameter base for good support. Intake is through under part of base which has heavy gauge brass strainer. Outlet threaded for ½ inch pipe.

FIG. 726 NON-AUTOMATIC PUMP—Intake and outlet is through threaded ½ inch pipe connection. A ½ inch pipe nipple can be used if hose is preferred. This unit should not be installed above bilge level as although this type of pump has excellent forcing ability, it has practically no lifting power from a lower level.

Fig	Voltage				Height Overall Inches	Size Base Inches	Weight Pounds	Motor Specifications			R.P.M.
	6 Volts Each	12 Volts Each	32 Volts Each	110 Volts D.C. Each				Volts	Amps.	H.P.	
724	\$44.00	\$46.00	\$49.00	\$52.00	7½	8⅜ x 4¼	12	6	7.0	1/40	2500
725	27.00	29.00	32.00	35.00	7½	5¼	7½	12	3.5	1/40	2500
726	28.00	30.00	33.00	36.00	9	4¼	6½	110 D.C.	.32	1/60	2000

NOTE — All above can be supplied with 110 Volt A.C. motors, add \$2.50 each to price of 110 Volt D.C.

CAPACITY—Forces water up to 3 feet above pump level, 500 gallons per hour at 1 foot, 360 gallons at 4 feet, 240 gallons at 6 feet. At this capacity, motor will operate for hours consecutively without overheating.





## Perko "Flexo-Shaft" Electric Bilge Pumps

Patent Pending

WITH FLEXIBLE PHOSPHOR BRONZE DRIVE SHAFT AND CASING  
ALL BRONZE EXCEPT THE MOTOR

The valve of this pump arrangement is obvious at first sight.

Tie the shaft in a knot, it operates. Pass it around corners, over or under bulkhead, ribs or any other obstructions and it still operates.

Mount the motor anywhere, in a cabin, pilot house, or out in the cockpit far removed from gasoline fumes that usually settle in low places; place the pump where it is needed at the moment, at the lowest point of the bilge, under the engine, under low decking or any place other types of pumps cannot reach.

Inlet is through base which has heavy gauge brass strainer. Outlet is illustrated and is for 1 inch rubber hose.

CAPACITY — 500 gallons per hour at 1 foot,      MAXIMUM HEAD — 7 feet.  
MOTOR IS LOW AMPERAGE 1/40th H.P. AT 2500 R.P.M.

WITH DIRECT DRIVE

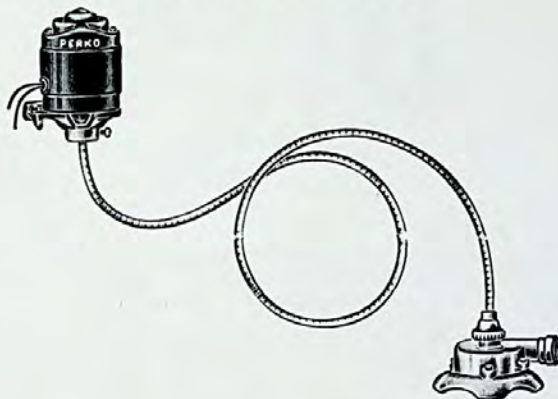


Fig. 666

Height Pump Inches	Diam. Base Inches	Weight Pounds
4 1/4	4 5/8	7

	6 Volt Each	12 Volt Each	32 Volt Each	110 D.C. Volts Each	110 A.C. Volts Each
With 3 ft. shaft	\$30.00	\$33.00	\$36.00	\$38.00	\$40.00
With 6 ft. shaft	32.00	35.00	38.00	40.00	42.00

WITH ANGLE DRIVE

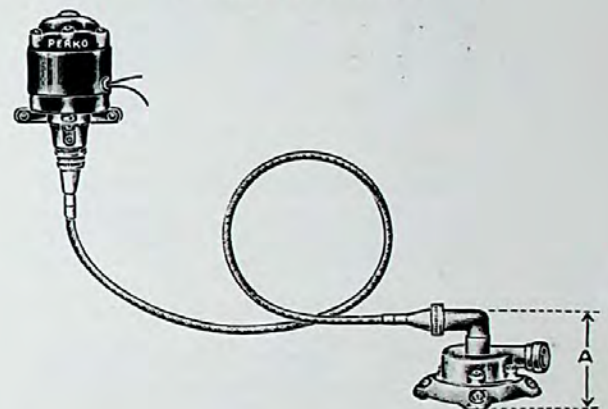


Fig. 689

Height at "A" Inches	Diam. Base Inches	Weight Pounds
3 1/4	4 5/8	7 1/2

	6 Volt Each	12 Volt Each	32 Volt Each	110 D.C. Volts Each	110 A.C. Volts Each
With 3 ft. shaft	\$34.50	\$37.00	\$40.00	\$42.00	\$44.00
With 6 ft. shaft	36.50	39.00	42.00	44.00	46.00

Spare Shafts, 3 foot \$5.00 each. 6 foot \$7.00 each.

Special lengths of shaft can be supplied, price on application.

## Automatic Switch For Bilge Pumps

PRESSURE OPERATED DIAPHRAGM TYPE — FOR NON-AUTOMATIC BILGE PUMPS  
CAST BRONZE — WITH SYNTHETIC RUBBER DIAPHRAGM — HEAVY DUTY MECHANICAL SWITCH

For All Voltages From 6 to 110

This device consists of a very sensitive switch in contact with a diaphragm of oil and grease resistant material. The wires are led through a neoprene hose above any normal water level.

This switch will start the pump operating when the water reaches the top of the switch or 2 1/4 inches. It will turn off again when the water reaches a depth of 1 inch but by connecting 1/4 inch tubing to the 1/8 inch pipe tapped end of switch and into the discharge line of the pump the pressure in the pump discharge line will continue to operate the switch until the pump sucks air.

Each	Height Inches	Diam. Base Inches	Weight Pounds
\$9.75	2 1/4	4 1/4	2



Fig. 662





**"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
\$18.75	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

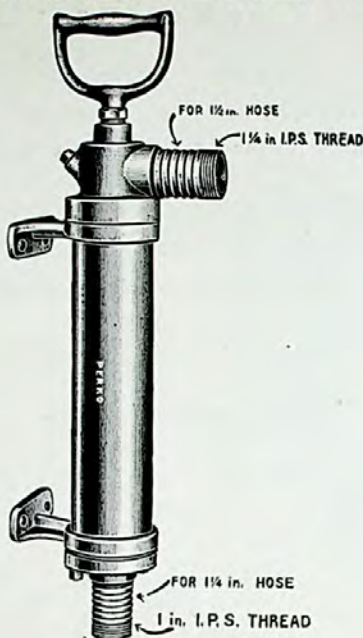


Fig. 701

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 Pipe Inches	Outlet Pipe Inches	Hose Inches	Hose Inches
\$21.50	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
\$21.00	24	2 3/4	1 1/4	1 1/2	1/2

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



Fig. 158  
All Bronze Poppet Type Valve

**"Midget" Navy Bilge Pumps**  
FOR HOSE OR PIPE  
WITH WEIGHTED LEATHER VALVE

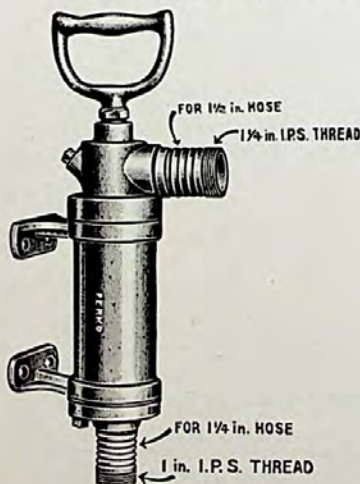


Fig. 702

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 Pipe Inches	Outlet Pipe Inches	Hose Inches	Hose Inches
\$20.00	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

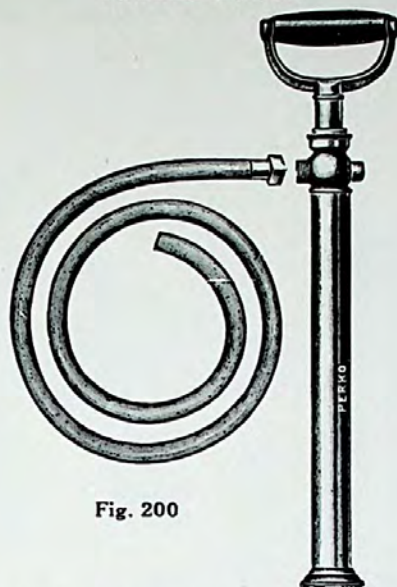


Fig. 200

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	Diameter Inches	Capacity Per Min. Gallons	Weight Pounds
1	\$ 8.50	17 3/8	1 1/4	6	2 1/4
2	10.00	20	1 1/2	12	3 1/4
4	12.50	29	1 1/2	16 1/2	4

Without hose, deduct \$ .50 each.

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

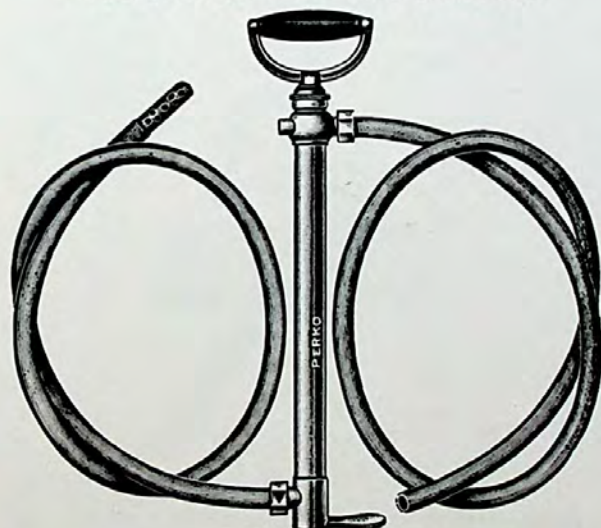


Fig. 202

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

Nos.	With Hose Each	Height Inches	Diam. Inches	Capacity Per Min. Gallons	Weight Pounds
5	\$11.25	18 3/8	1 1/8	6	3
6	13.25	21	1 1/2	12	4
8	17.50	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	\$7.50	\$7.00	1 1/8	17 3/8	2

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



Fig. 156

Overall Length Feet	Diameter, Inches		
	2	3	4
3	\$ 6.25	\$ 7.25	\$ 8.75
4	6.25	7.25	8.75
5	6.25	7.25	8.75
6	7.50	8.70	10.50
7		10.15	12.25
8		11.60	14.00
9		13.05	15.75
10		14.50	17.50

Longer lengths supplied to order.

Crating Charge — \$4.00 net per crate regardless of quantity of pumps it contains.





**Brass Bilge Pump**  
WITH BULKHEAD BRACKETS  
THREADED FOR 3/4 INCH PIPE

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	\$13.50	\$15.00
4	15.50	17.00

Fig. 345

**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 Barrel Inches	Length Overall Inches	Weight Pounds
\$6.60	\$2.20	1 1/2	12	15 1/2	2

**Galley and Lavatory Pumps**

POLISHED BRONZE OR CHROMIUM PLATED  
BRASS BALL CHECKS IN PLUNGER  
AND INLET VALVES

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
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

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.

Polished Bronze Each	Chromium Plated Each	Inlet Pipe Size Inches	Spout Projection Inches	Height Flange to Spout Inches	Weight Pounds
\$11.25	\$14.00	3/8	4	4 1/4	2 1/4





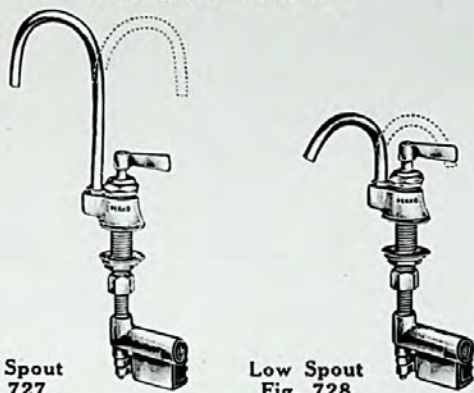
### "Perko" Electric Water Faucets

ALL CAST BRONZE—WITH ADJUSTABLE SPOUT—6-12-32 AND 110 VOLTS

TURN THE HANDLE OR PRESS THE FOOT SWITCH AND THE WATER STARTS TO FLOW. NO HAND PUMPING OR PRIMING NECESSARY.

Connect one or several of the faucets to our new Figure 726 electric pump. (See bottom of page for suggested installation.) Water is then supplied to your sink or lavatory as easily as in your home. All connections are threaded for 1/2 inch pipe.

WITH HAND SWITCH

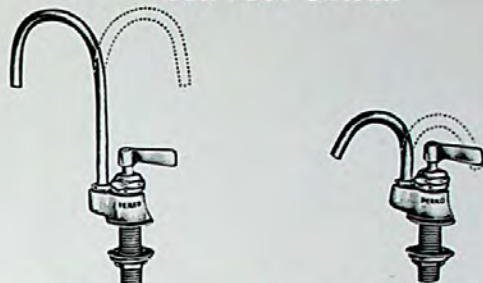


High Spout  
Fig. 727

Low Spout  
Fig. 728

Fig.	Polished Brass Each	Chromium Plated Each	Height Above Drain Board Inches	Length Below Drain Board Inches	Weight Pounds
727	\$24.00	\$27.00	8 1/4	5 1/2	2 1/2
728	23.50	26.50	3 3/8	5 1/2	2 1/4

FOR FOOT SWITCH



High Spout  
Fig. 729

Low Spout  
Fig. 730

Fig.	Polished Brass Each	Chromium Plated Each	Height Above Drain Board Inches	Length Tall Piece Inches	Weight Pounds
729	\$16.00	\$19.00	8 1/4	2 1/4	1 1/2
730	15.50	18.50	3 3/8	2 1/4	1 1/4

### Foot Switch

CAST BRONZE—WATERTITE  
FOR USE WITH FAUCETS, FIGS. 729 AND 730

For convenient location in galley or lavatory.

A spring type switch requiring very slight pressure. Can also be operated by knee or hand.

Size Box, inches, 3 1/8 x 2 1/8 x 1 1/2.



Fig. 731

Polished Bronze Each	Chromium Plated Each	Weight Pounds
\$8.00	\$9.50	1

### Electric Pump

CAST BRONZE—WATERTITE  
6-12-32 AND 110 VOLTS

For use with all faucets shown above.

Threaded for 1/2 inch pipe.

1/40 H.P. low amp. motor.

500 G.P.M. at 1 foot head.

Additional data shown on page 58.

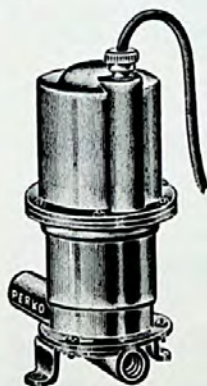
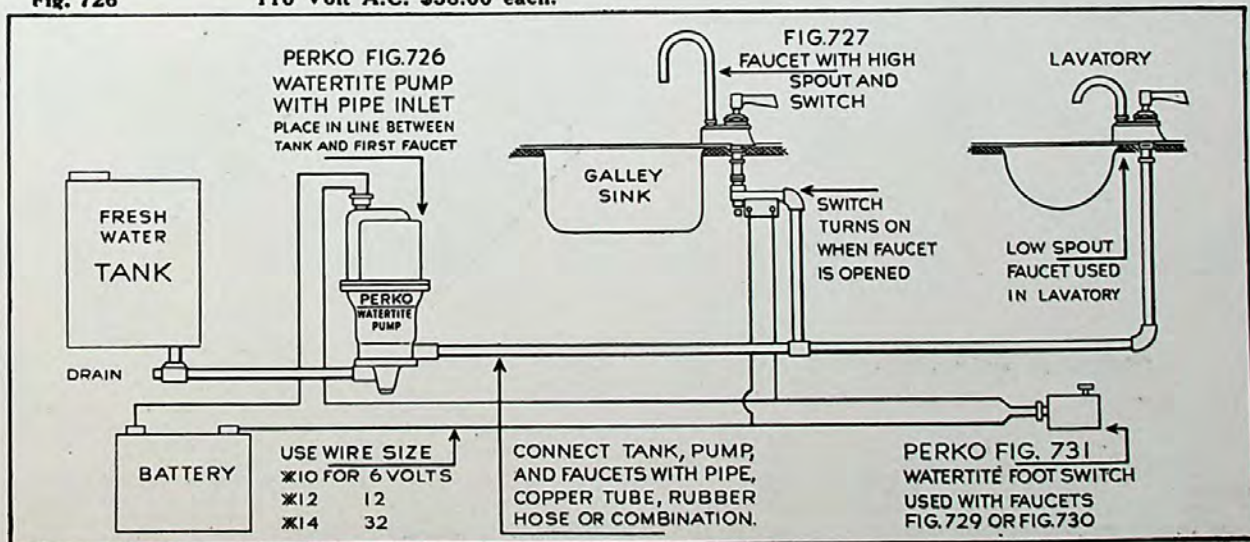


Fig. 726

6 Volts Each	12 Volts Each	32 Volts Each	110 D.C. Volts Each
\$28.00	\$30.00	\$33.00	\$36.00

110 Volt A.C. \$38.00 each.





### Galley and Lavatory Pumps

POLISHED BRONZE OR CHROMIUM PLATED  
IMPROVED INLET VALVE TO HOLD PRIME  
BRASS BALL CHECK VALVE IN PLUNGER  
WITH ADJUSTABLE MAHOGANY HANDLE  
HIGH OR LOW SPOUT  
STRAIGHT OR FLARED BASE

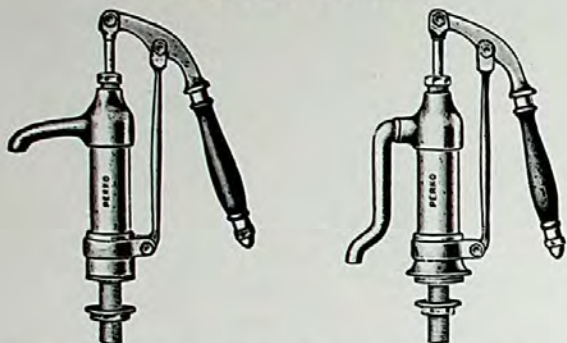


Fig. 473 Straight Base  
Fig. 478 Flared Base

Fig. 474 Flared Base  
Fig. 479 Straight Base

With leakproof neoprene u-cups seals instead of packing glands.

Diam. Barrel Inches	Length Barrel Inches	Length Neck Inches	Threaded For Pipe Inches	Spread Handle Up Inches	Weight Pounds
1 5/8	6	2 1/2	1/2	14	3 1/2

Fig.	Complete Handle Only				
	Polished Bronze Each	Chromium Plated Each	Polished Bronze Each	Chromium Plated Each	Mahogany Grip Only Each
473-478	\$19.75	\$23.00	\$3.00	\$4.00	\$.75
474-479	23.00	26.50	3.00	4.00	.75

WITH IMPROVED ALL METAL HANDLE  
HIGH SPOUT—STRAIGHT BASE



Fig. 467

The improved design of handle is more comfortable and cannot pinch the hand.

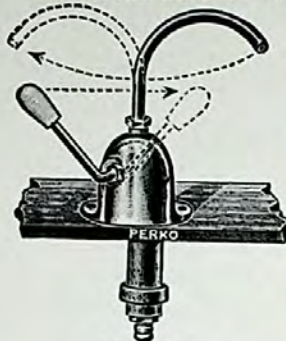
With leakproof neoprene u-cup seals instead of packing glands.

Diam. Barrel Inches	Length Barrel Inches	Length Neck Inches	Threaded For Pipe Inches	Spread Handle Up Inches	Weight Pounds
1 5/8	6 1/2	2 1/2	1/2	13 1/2	3 1/2

Polished Bronze Each	Chromium Plated Each	Bronze Handle Only Each	Chromium Plated Handle Only Each
\$17.50	\$21.00	\$2.25	\$3.25

### New "Ezy-Flo" Galley Pump

ALL BRASS—CHROMIUM PLATED



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 5/8" rubber hose or 3/8" metal tubing.

Capacity — 20 strokes

Fig. 177

Each	Extreme Height Above Drain Board Inches	Dimensions Mounting Base Inches	Weight Pounds
\$16.00	8	4 x 1 7/8	2 1/4

Repair Kit, each—\$4.00

### Galley Sink

PRESSED STEEL—PORCELAIN ENAMELED WHITE



Fig. 402

With flat rim and chromium plated combination sink drain and stopper in one unit, 1 1/2 inch tail piece.

No.	Each	Size Inside Inches	Size Outside Inches	Depth Inches	Wt. Lbs.
2	\$8.00	10 1/2 x 16	12 3/4 x 18	4 3/4	4

### "Sea Maid" Monel Sink

DEEP DRAWN, SEAMLESS CONSTRUCTION  
19 GAUGE MONEL—NATURAL FINISH

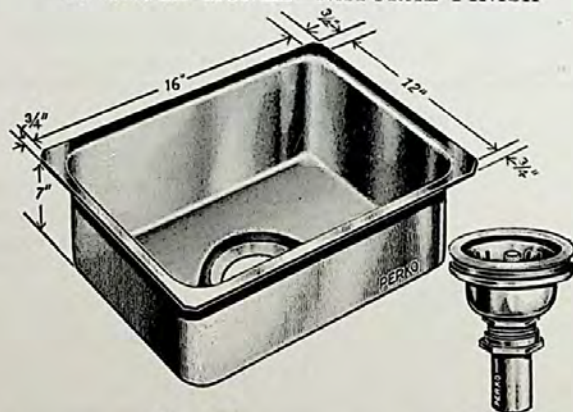


Fig. 356

Fig. 357

Corrosion resistant and immune to rust. No crevices for dirt or bacteria to collect. No painted or coated surface to crack or wear off. Fig. 357 Cup strainer is all stainless steel.

Sink Only Each	Strainer Only Each	Outside Diameter Strainer Inches	Outside Diameter Tail Piece Inches	Weight Sink Pounds	Weight Strainer Pounds
\$19.75	\$5.00	4 1/2	1 1/2	7 1/2	1 1/2



## Corner Lavatory WHITE VITREOUS CHINA



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 or Faucet Each	With Faucet Each	Size of Sides Inches	Diam. of Basin Inches	Height Back Inches
1	\$24.00	\$30.00	12x12	10	2½
2	30.00	36.00	14x14	11	2½

NOTE—Pumps for above, see Figs. 144, 467, 473, 474, 478, 479 and 1040.

Faucets are chromium plated bronze marked hot or cold, please specify.

## Flat Back Lavatories WHITE VITREOUS CHINA

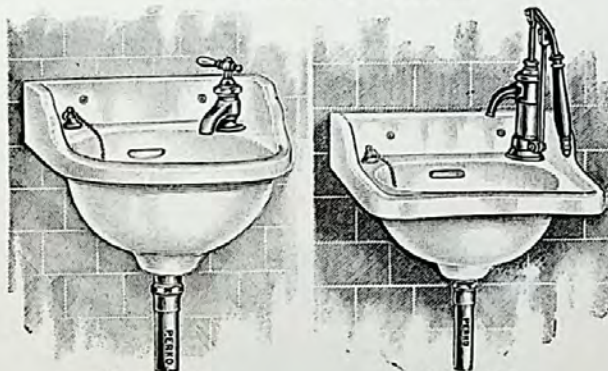


Fig. 831

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.

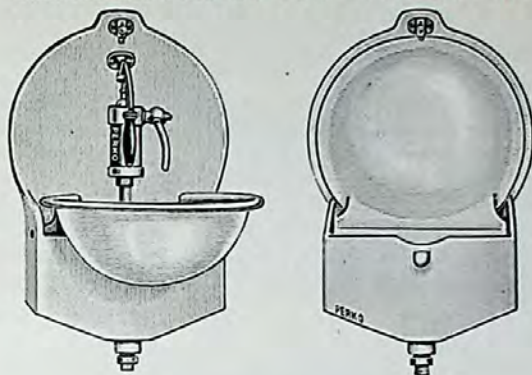
Fig.	Without Pump or Faucet Each	With Faucet Each	Size Inches	Diam. Basin Inches	Height Back Inches
831	\$21.00	\$27.00	12x12	10	2½
832	24.00	30.00	14x14	11	2½

NOTE—Pumps for above, see Figs. 144, 467, 473, 474, 478, 479 and 1040.

Faucets are chromium plated bronze marked hot or cold, please specify.

## Folding Lavatories

VITREOUS ENAMELED ENTIRELY  
CHROMIUM PLATED PUMP AND FITTINGS



Open

Closed

Fig. 732

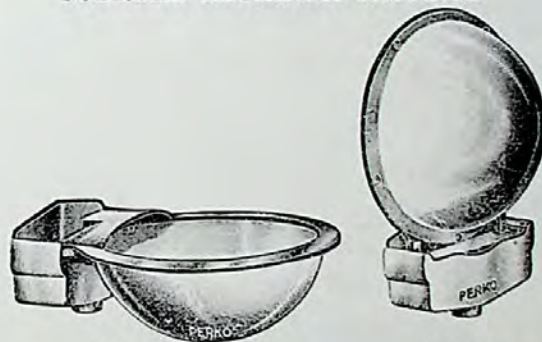
Basin is held in closed position by a spring catch. Inlet and outlet fittings are threaded for  $\frac{3}{4}$  inch pipe.

With Pump Each	Height Inches	Width Inches	Projection When Open Inches	Diam. Basin Inches	Depth Basin Inches	Weight Pounds
\$75.00	20	13¾	14	10	4½	42

Pump only for above, price on application.

## Improved Folding Lavatory

WITH DRAIN AND ALUMINUM SPLASH GUARD  
WHITE PORCELAIN ENAMEL BOWL  
POLISHED ALUMINUM CASTINGS



Open

Closed

Fig. 342

For drainage, the lavatory bowl is tilted back, and the water runs down the drain.

Automatically locks in closed or open position.

A funnel which is an integral part of the splash guard directs the water through an orifice when emptying the bowl.

All castings have been improved and made more substantial.

Drain tapped for  $\frac{1}{2}$  inch pipe. Bowl capacity 1 gallon.

Each	Diam. Bowl Inches	Width Mounting Plate Inches	Height Closed Inches	Extension Open Inches	Wt. Lbs.
\$14.75	12	8¾	15	13¾	4½

ALL ABOVE FURNISHED WITHOUT PUMP OR FAUCET UNLESS OTHERWISE SPECIFIED.





## “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**, closed front as illustrated.

**DIMENSIONS OVERALL**, side to side, 19 inches; front to back, 16 inches; height, 14½ inches, base 11 x 5 inches.

### The Boatman

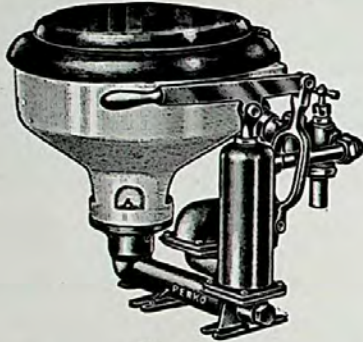


Fig. 828

With Horizontal Handle and Hand Valve

With White Seat and Cover, Closed Front Each  
\$70.00

### The Cruiserman

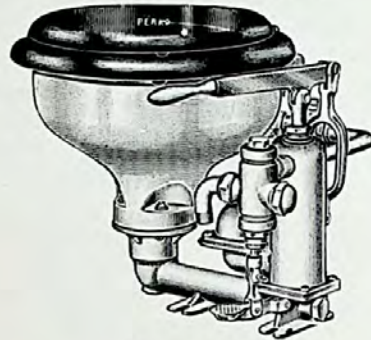


Fig. 1121

With Horizontal Handle and Foot Valve

With White Seat and Cover, Closed Front Each  
\$72.50

### The Seaman

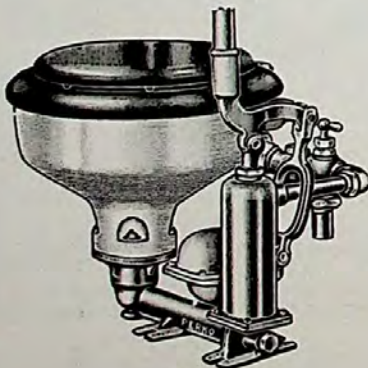


Fig. 1026

With Vertical Handle and Hand Valve

With White Seat and Cover, Closed Front Each  
\$72.50

### The Yachtsman

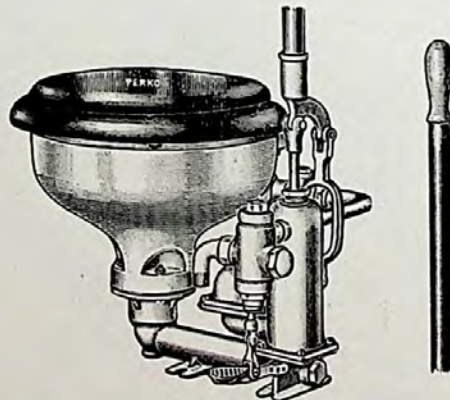


Fig. 829

With Vertical Handle and Foot Valve

With White Seat and Cover, Closed Front Each  
\$75.00

**NOTE**—All furnished with pump on right or left hand side. Right hand facing furnished unless otherwise specified.





### The Guardsman

3½ INCH PUMP—CAST BRONZE  
WHITE FINISH  
FELT PACKED PISTON  
VERTICAL HANDLE AND FOOT VALVE

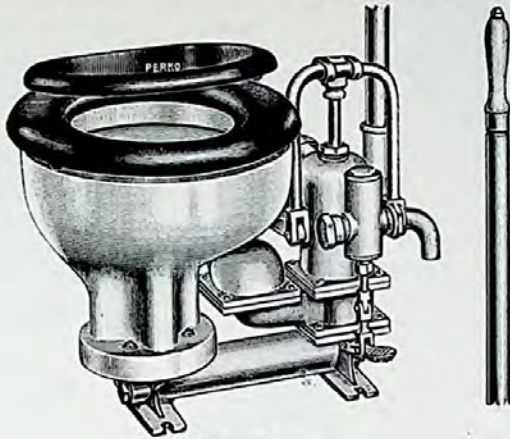


Fig. 1122

With White Seat and Cover, Closed Front **Each \$105.00**

**REPAIR KITS** for above consisting of all necessary gaskets, washers, packing, clack valves, etc. Ea. **\$6.75.**

**DIMENSIONS OVERALL**—Side to side, 20¼ inches; front to back, 16½ inches; height, 17 inches; base, 16x7 inches.

**CONNECTIONS**—Outlet, 2 inches; inlet, 1 inch, I.P.S.

**WASTE ARM**—Has ¾ inch pipe size clean out openings in both ends.

**BORE**—3½ inches; stroke, 3½ 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

These are made of birch wood, finished in several coats of white enamel.

White Each	Outside Diam. Inches	Outside Depth Inches	Centers of Bolts Inches
<b>\$12.00</b>	14	14	5¾

### White Vitreous China Bowls WITH FLUSHING RIM

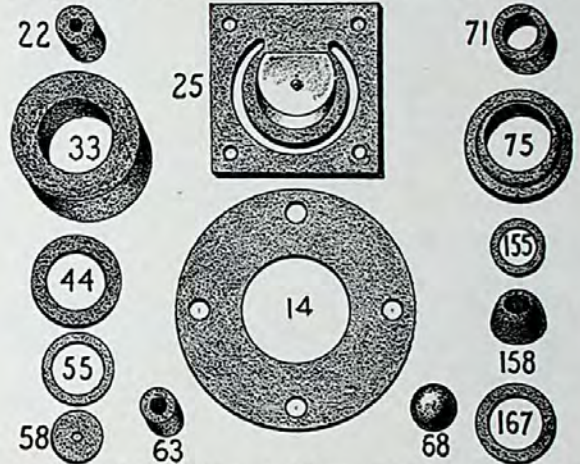


Fig. 1125

No. 1. for closet Figs. 828-829-1026-1121.  
No. 2 for closet Fig. 1122.

No.	Each	Height Overall Inches	Diam. Base Inches	Outside Diam. Top Bolt Holes Inches
1	\$16.50	8	4¼	12½
2	24.00	12	7	12½

### Repair Parts for "Perko" Closets

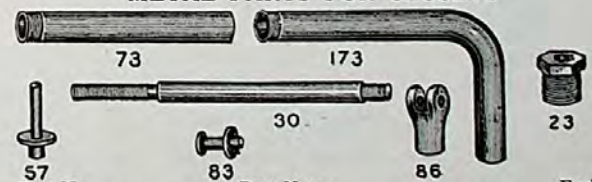


Repair kits for 828 and 1026 consisting of parts No. 14 to 75 inclusive **Each \$5.00**

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	.25
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	\$11.50	\$11.20	\$.60	3 1/2	\$1.35
1	14.65	14.40	.60	3 1/2	1.70
1 1/4	19.35	19.00	.80	4 1/4	2.50
1 1/2	22.50	22.00	1.35	5	3.00
2	35.00	34.00	1.60	6	4.75
2 1/2	120.00	115.00	3.60	8	5.80

**Tail Pieces**  
CAST BRONZE

For lead pipe or hose connections, furnished complete with rubber washer.



Fig. 67 Straight  
Fig. 78,  
90 Degree

I. P. S Size Inches	Fig. 67 Each	Fig. 78 Each
1/4	.60	
3/8	.65	
1/2	.70	
3/4	\$.95	\$1.15
1	1.15	1.50
1 1/4	1.60	2.00
1 1/2	1.90	2.25
2	2.75	4.00
2 1/2	4.85	

**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	\$1.85	\$1.20	1 3/4	3/8	1 1/4	1/3	3/8
3/8	1.90	1.25	2 3/8	1/2	1 3/8	1/2	1/4
1/2	2.10	1.35	2 3/8	1/2	1 5/8	3/4	1/3
3/4	2.65	1.70	2 3/8	3/4	2	1	1/2
1	3.45	2.30	2 3/8	1	2 1/4	1 1/4	3/4
1 1/4	4.75	3.20	3 1/2	1 1/4	2 3/8	1 3/4	1
1 1/2	5.85	3.90	3 3/4	1 1/2	3	2 1/4	1 1/4
2	8.60	5.90	4	2	3 1/2	3 1/2	2
2 1/2		9.10	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.	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
1	\$2.75	\$3.50	\$4.25
2	3.25	4.00	5.00

**Speedboat Strainers**  
CAST BRONZE—ONE PIECE



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 3/4	3 x 4	3/8
1	3.35	3	3 1/8 x 4 1/4	1 1/8
1 1/4	4.50	3 3/8	3 3/8 x 4 1/2	1 3/4
1 1/2	5.50	3 3/8	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	\$.40	3 1/2 x 2 1/2	4 oz.
2	.65	5 x 3 1/4	7 oz.
3	1.20	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	\$.35	1 3/4	2 oz.
3	.40	2	4 oz.
3 1/2	.60	2 5/8	5 oz.
4 1/4	.80	3	6 oz.
5	1.35	3 3/4	12 oz.
6	1.60	4 1/2	1 lb.
8	3.60	6	2 lbs.
10	5.80	8 1/4	3 lbs.





## 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 61**  
 No. 2 for numbers 2, 4, 6 and 8 bilge pumps.

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

NOTE—The above parts are also used in Fig. 345 bilge pumps. Figs. 146 and 1029 crank case pumps.

## 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.

Fig. 549		Fig. 550	
For Pump Size No.	Each	For Pump Size No.	Each
0	\$1.85	5	\$2.80
1	2.00	6	3.50
2	2.80	8	3.50
4	2.80		

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.  $\frac{3}{8}$  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, inches	1 1/2	2	2 1/2	3	4
Wgt., per dz. lbs.	3	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	\$4.00	3/4
2 1/2	4.50	1 1/4
3	5.00	1 1/2
3 1/2	6.00	1 3/4
4	7.00	1 3/4

## Bronze Navy Pump Strainers

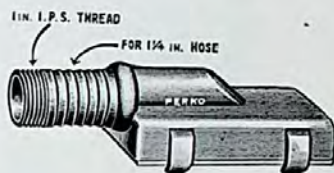


Fig. 704

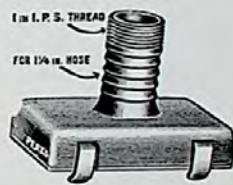


Fig. 705



Fig. 721

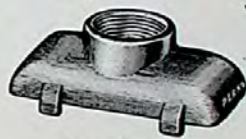


Fig. 722

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 3/4

## New Junior Strainer

CAST BRONZE  
FOR  $\frac{3}{8}$  INCH RUBBER HOSE



Fig. 709

Excellent for use with bilge pumps having  $\frac{3}{8}$  inch hose for intake such as our Fig. 202, etc.

Each	Length Overall Inches	Width Inches	Weight Ounces
\$1.75	4	1 3/4	6





## “PERKO” ALCOHOL STOVE

2 BURNER — PRESSURE TYPE — WITH REMOVABLE TRAY  
 MONEL METAL BODY AND TRAY — NATURAL FINISH  
 CAST BRONZE BURNERS — BRASS, CHROMIUM PLATED GUARD RAIL

**CONSTRUCTION** — of heavy gauge monel metal. Satin finish.

**BURNERS** — Cast bronze with slotted manifold producing intense heat.

**TRAY** — An integral part of front apron, readily removable for cleaning but will not rattle. It insulates the fuel tank from heat. Sheet asbestos is affixed to its bottom.

**GUARD RAIL** — Brass, chromium plated. Front section is removable to accommodate large pots and pans.

**AIR PRESSURE GAUGE** — Accurate and easy to read; it shows best working pressure.

**FILLER CAP AND AIR ESCAPE VALVE** — Inside of front apron, but readily accessible.

**FUEL TANK** — 1½ gallon capacity, rectangular shape and hidden by front apron, fully insulated from heat of burners.

**FUEL CONSUMPTION** — Using a good grade of “Burning Alcohol”, both burners will operate continuously for 14 hours on one gallon of fuel and one pound of air pressure.

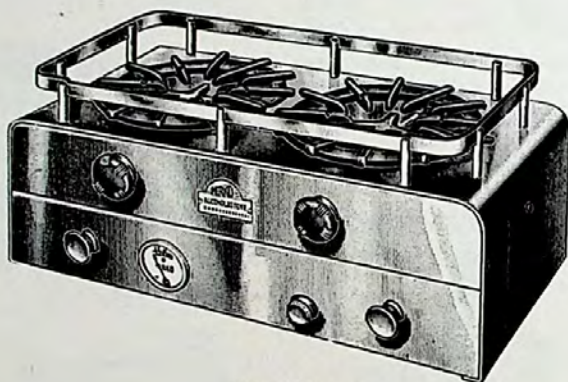


Fig. 364

Each	Extreme Length Inches	Extreme Width Inches	Extreme Height Inches	Weight Pounds
\$66.00	20½	12	8½	27

### Funnel

HEAVY GAUGE ZINC—BRASS STRAINER



Fig. 365

Designed primarily for filling our stoves, this funnel is a handy one for various purposes on a boat, at home or in a garage.

Each	Capacity Ounces	Diam. Mouth Inches	Diam. Spout Inches	Weight Ounces
\$1.50	3	3	¾	2

### Pot Holders

ALL BRASS—CHROMIUM PLATED

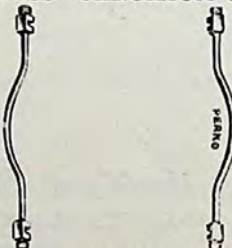


Fig. 369

Made for attachment to our alcohol stove (fig. 364). Adjustable on the stove for various sizes of pots, pans, etc.

Per Pair	Length Overall Inches	Weight Per Pair Ounces
\$2.50	10½	8





## NEW "PERKO" BOTTLED GAS STOVE

FOR USE WITH PROPANE OR BUTANE L. P. GAS  
 2 BURNER — WITH REMOVABLE TRAY  
 MONEL METAL BODY AND TRAY—SATIN FINISH  
 COLD FORGED ALUMINUM CENTER SIMMER BURNERS  
 BRASS, CHROMIUM PLATED GUARD RAIL AND POSTS  
 BLACK PLASTIC CONTROL KNOBS AND TRAY HANDLE

The last word in convenience, practicability and good looks with many of the faults of older models eliminated. No enamel to chip, crack or discolor. Monel metal is rich looking, easily cleaned and is non-corrosive.

**THE BURNER** is especially unique, in fact it's two burners in one. The outer rim is a high speed cooking burner for quick boiling, frying, etc. There is also a tiny, inner, economical simmer burner which maintains the cooking while using only a fraction of the gas usually consumed with ordinary single burners and it can be used independently of the starting burner; no other type of burner possesses this decided advantage. The center simmer burner provides exactly the right heat for every cooking requirement from the full fire power of the starting burner to the mere beads of flame of the "keep-warm" position of the center simmer. All controlled by the one control knob.

**EASY CLEANING** — The burner cap can be removed in less than one second.

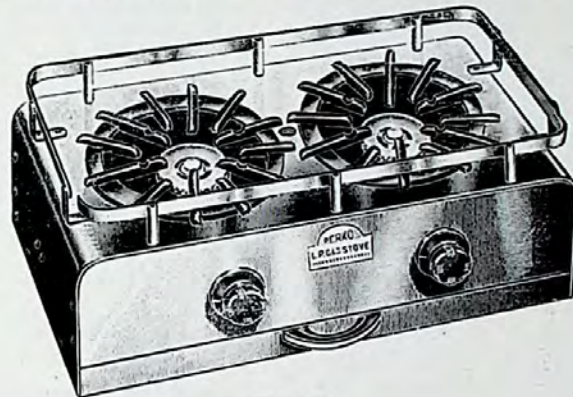


Fig. 373

Each	Extreme Length Inches	Extreme Width Inches	Extreme Height Inches	Weight Pounds
\$60.00	20 3/4	12	8 1/2	25

## BOTTLED GAS STOVE EQUIPMENT

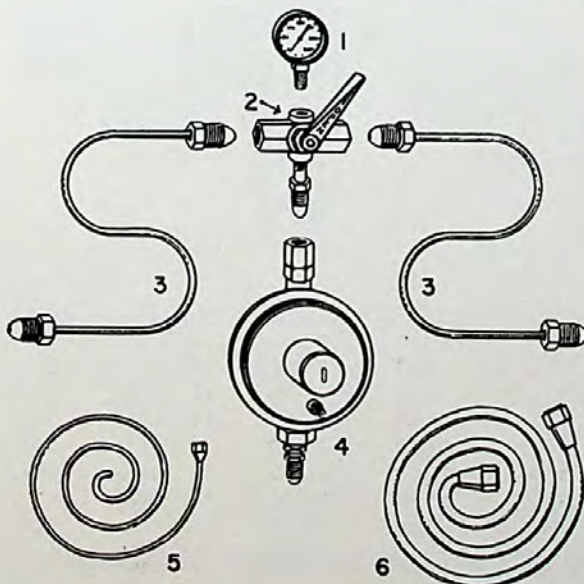


Fig. 374

No.	Description	Each
1	Polished Brass Pressure Gauge .....	\$ 3.50
2	Forged Bronze Two Way Valve Manifold with Indicating Handle .....	8.40
3	Pigtails (Tank Connections) .....	3.00
4	Pressure Regulator with Relief Valve .....	12.00
5	1/4 inch Copper 10 Foot Vent Line with One Fitting .....	1.80
6	1/2 inch Copper 20 Foot Fuel Supply Line with Two Fittings .....	8.40

Note — The above Manifold item No. 2 and Regulator item No. 4 is listed by the Underwriters' Laboratories.





## "Perko" Alcohol Burner

CAST BRONZE



Fig. 367

Burner with Needle Valve and Control Handle, no Fittings, Filter or Priming Pan	Each	\$7.00
Wire Brush Filters Only		1.50
Priming Pan Only		1.00
Packing Nut for Valve Stem		.25
Grates only for Stove		1.50

## Alcohol Stove Parts

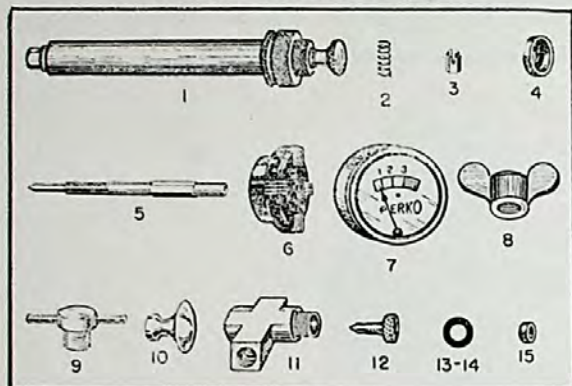


Fig. 368

No.		Each
1	Fuel Tank Air Pump complete	\$2.50
2	Pump Check Valve Spring	.25
3	Pump Check Valve	.40
4	Leather Plunger for Pump	.15
5	Needle Valve Stem	.50
6	Plastic Control Knob	.75
7	Air Pressure Gauge	2.50
8	Wing Nut for Filter Entrance	.50
9	Filler Cap for Fuel Tank	.75
10	Knob for Removable Tray	.50
11	Fitting for Fuel Supply Line	.80
12	Screw for Air Escape Valve	.25
13	Lead Gasket for Wing Nut No. 8	.25
14	Lead Gasket for Filler Cap No. 9	.25
15	Graphite Packing for Valve Stem	.10

## Water Deck Irons

GALVANIZED CAST IRON



Fig. 430

Size of Stove Pipe Inches	Each	Outside Diam. of Neck Inches	Diam. Flange Inches	Weight Pounds
2	\$2.00	2 1/4	5 1/2	1 1/4
2 1/2	3.60	2 3/4	6 1/2	1 3/4
3	3.85	3 3/8	7 1/2	4
3 1/2	4.80	3 7/8	8 1/2	5
4	5.25	4 3/8	9 1/4	6 1/4
4 1/2	5.50	4 7/8	10	8
5	6.00	5 3/8	10 1/2	9
5 1/2	6.60	5 7/8	11	9 3/4
6	7.50	6 1/2	11 1/4	11 1/4
7	9.60	7 3/8	12 3/4	13 1/4
8	13.75	8 3/8	13 3/8	19

## Hot Air Cabin Heater

CAST ALUMINUM BODY  
6-12-32 AND 110 VOLTS

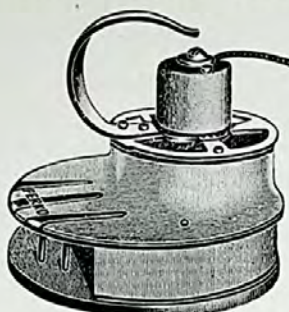


Fig. 595

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	\$23.00	1.5	8 1/2	7	9 1/2
12	27.00	.75	8 1/2	7 1/4	9 3/4
32	30.00	.28	8 1/2	7 3/4	10 1/4
110 D.C.	34.00	.08	8 1/2	8	11

The 110 volt heater furnished for D.C. current only.

Specify Voltage When Ordering

## Liverpool Smoke Heads

SHEET STEEL OR BRASS—RIVETED



Fig. 347

Size Inches	Galv. Each	Brass Each	Overall Dimensions Inches	Weight Pounds
3	\$ 9.30	\$14.50	11 1/2 x 4	2
3 1/2	9.60	15.00	12 x 4 1/2	2 1/2
4	10.00	16.00	13 x 5 1/2	2 3/4
4 1/2	10.75	17.00	14 x 6	3 1/4
5	11.90	18.70	15 x 7	4 1/2
5 1/2	13.20	21.00	16 x 7 1/2	4 3/4
6	14.90	23.00	17 x 8	5 1/2

Larger sizes made to order, price on application.

If required for mounting on water deck iron, specify 1/2 inch larger size.



## Marine Exhaust Blowers

ENCLOSED MOTOR—CAST ALUMINUM HOUSING  
6-12-32 OR 110 VOLTS

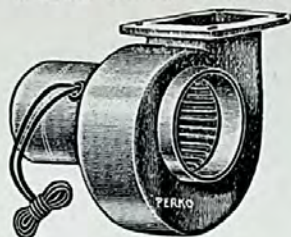


Fig. 778

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		Dimensions Overall Inches	Capacity Cubic Feet Per Minute	Size Flange Inches	
	Intake Inches	Outlet Inches			No. 1	No. 2
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		Amperes		Horsepower	
	No. 1	No. 2	No. 1	No. 2	No. 1	No. 2
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 D.C.	26.00	35.00	.30	.32	1/40	1/60
110 A.C.		37.00		.32		1/60

A caution plate is furnished with every Blower.

## New Improved Exhaust Blowers

ENCLOSED MOTOR—CAST ALUMINUM HOUSING  
6-12-32 OR 110 VOLTS

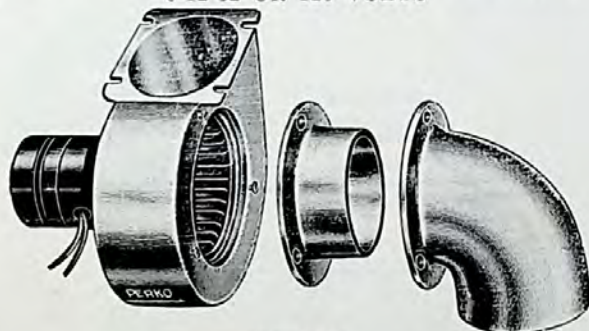


Fig. 795

The improvement is obvious; notice that the inlet fittings are not an integral part of the housing, permitting use of the straight or 90° fitting whichever is preferred.

The neck of the straight fitting is 1 1/2 inches long allowing better fit of duct. The 90° fitting can be set at three different angles and eliminates the use of an elbow in the duct.

Volts	3 Inch		4 Inch	
	With Straight Inlet Each	With 90° Inlet Each	With Straight Inlet Each	With 90° Inlet Each
6	\$18.50	\$20.00	\$30.00	\$32.50
12	19.50	21.00	31.00	33.50
32	21.50	23.00	33.00	35.50
110 D.C.	27.50	29.00	35.00	37.50
110 A.C.			37.00	39.50

All other dimensions and data, same as Fig. 778. Specify type of inlet required.

## Exhaust Blowers and Ventilators

WITH ROUND OR OVAL MOUTH VENTILATOR AND FIG. 778 NO. 1 BLOWER, 3 INCH INTAKE

Round Mouth

Oval Mouth

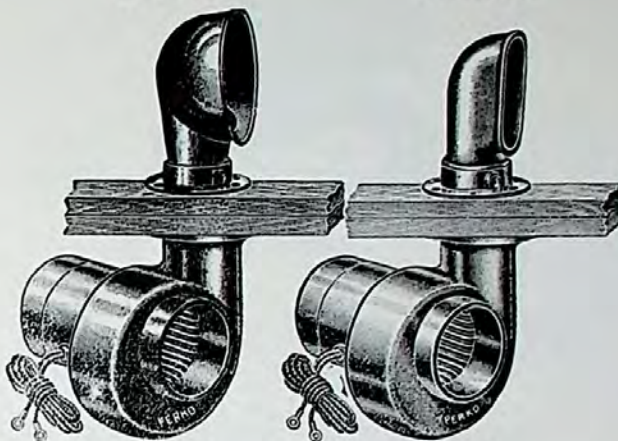


Fig. 780

Fig. 781

Fig. 780 has a galvanized or brass ventilator, 3 inch bottom opening, 6 inch mouth, 8 inches high overall, swivel type.

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, swivel type.

Fig. 780 Galvanized Complete Each	6 Volt Fig. 780 Pol. Brass Complete Each	Fig. 781 Pol. Bronze Complete Each
\$34.00	\$39.50	\$29.75

For 12 volt Blower, add \$1.00 each.  
For 32 volt Blower, add \$3.00 each.  
For 110 volt D.C. Blower, add \$9.00 each.

## Improved Blower and Ignition Switches

CAST BRONZE—FLUSH TYPE



Watertite Enclosed Switch Fig. 149



Non-Watertite Switch Fig. 155

With these improved switches the engine cannot be started before the blower has been turned on, then before the engine can be stopped the blower must again be started thus clearing out any remaining fumes before and after engine operation.

Fig.	Polished Bronze Each	Chromium Plated Each	Diam. Face Plate Inches	Diam. Box Inches	Depth Inches	Weight Pounds
149	\$8.75	\$10.00	4 1/4	3 1/4	1 3/4	1 3/4
155	7.75	9.00	4 1/4	...	1 3/4	7/8



### Round Portlights

CAST BRONZE  
NEW STYLE—IMPROVED  
GLASS AREA IS SAME DIAMETER AS OPENING



Fig. 317

### Deck Lights

CAST BRONZE—FOR WOOD DECKS



Fig. 838

Diam. Opening Inches	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	\$ 7.15	4	7 <sup>5</sup> / <sub>8</sub>	1/4	3 <sup>3</sup> / <sub>8</sub>	\$5.25	\$6.75	1/4	5 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>
5	8.50	5	8 <sup>3</sup> / <sub>4</sub>	1/4	4	5.50	7.50	1/4	6 <sup>1</sup> / <sub>4</sub>	2
6	10.50	6	9 <sup>3</sup> / <sub>4</sub>	1/4	5	6.25	8.60	3/8	7 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>8</sub>
7	14.50	7	11	3/8	6	7.00	9.35	3/8	8	3 <sup>3</sup> / <sub>8</sub>
8	16.50	8	12 <sup>1</sup> / <sub>4</sub>	3/8	8	12.85	16.00	1/2	11	9 <sup>3</sup> / <sub>8</sub>
9	27.00	9	14 <sup>3</sup> / <sub>8</sub>	1/2						
10	32.00	10	14 <sup>7</sup> / <sub>8</sub>	1/2						
12	50.00	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.

### 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

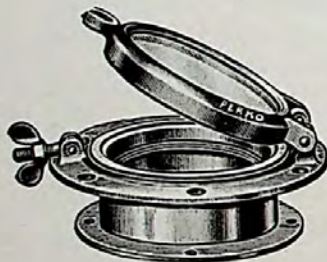
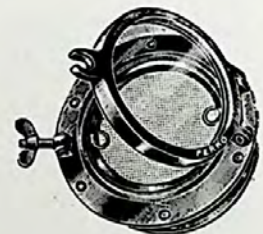


Fig. 157

Showing Screen in Place



Opening Inches	For Thickness of Wood			
	1 <sup>1</sup> / <sub>2</sub> Inch Plain Bronze Each	3 Inch Plain Bronze Each	4 <sup>1</sup> / <sub>2</sub> 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<sup>1</sup>/<sub>2</sub> inch price. For 2 or 2<sup>1</sup>/<sub>2</sub> 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	9 Inch	9 Inch	10 Inch	12 Inch
	\$ .60	\$ .70	\$ .85	\$1.10	\$1.35	\$2.15	\$2.70	\$3.35

Note — Screens for all portlights above see Fig. 434.





### Marine Windows

WITH SPIGOT

PLAIN BRONZE OR ALUMINUM  
WATERTIGHT—TWO FASTENINGS

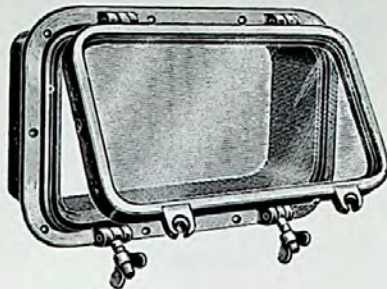


Fig. 796

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	\$23.75	\$21.00	\$1.65	5x12
2	7x16	28.50	25.00	2.25	7x16

No.	Dimensions Outside of Frame Inches	Length Spigot Inches	Thickness Glass Inches	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

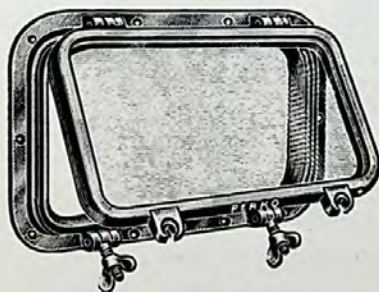


Fig. 803

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	\$21.00	\$19.25	11 1/2	5
4	7x16	25.50	23.00	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	\$3.60	\$5.75	\$5.75	\$8.00
4	4.40	6.00	6.60	8.80
5	5.00	6.85	7.20	9.40
6	5.80	7.60	8.00	10.20
7	6.60	8.25	8.80	11.00
8	7.20	9.00	9.40	11.50

These are all made to order and are not returnable, larger sizes 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
4	\$2.20	8	\$3.60
5	2.50	9	3.85
6	2.75	10	4.75
7	3.30	12	5.50

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 Diam. Bolt Inches	Threads Per Inch	Plain Brass Each	For Diam. Bolt Inches	Threads Per Inch	Plain Brass Each
1/4	20	\$ .15	1/2	13	\$ .35
5/16	18	.18	5/8	11	.90
3/8	16	.20	3/4	10	1.00
1/2	14	.35			

### Rubber for Portlights



Fig. 461

Size	Per Foot
1/4 inch square	\$ .15
3/8 inch square	.17
1/2 inch square	.20

Supplied only in 12 1/2 foot lengths





## Cowl Ventilators

GALVANIZED STEEL OR BRASS  
WITH CAST BRONZE DECK PLATES

Screw Type



Fig. 510

Swivel Type



Fig. 513

Deck Plate Size Inches	Fig. 510		Fig. 513		Diam. Mouth Inches	Height Overall Inches	
	Galv. Each	Pol. Brass Each	Galv. Each	Pol. Brass Each		Fig. 510	Fig. 513
2	\$13.50	\$18.50			4	5 1/2	
2 1/2	14.50	19.75			5	6 1/2	
3	15.75	21.00	\$17.00	\$22.50	6	8	8
3 1/2	17.75	22.00			7	10	
4	19.25	24.00	21.75	27.00	8	11	12
5	32.00	37.00	32.00	38.00	10	13	13 1/2
6	43.00	48.00	43.00	49.00	12	16	17 1/2
8	80.00	95.00	65.00	80.00	16	21	20 1/2
10			115.00		20	28	

10 inch galvanized cowl only, with galvanized band on neck, no deck plate, each \$84.00.

Note — The 10 inch size is of heavy 18 gauge steel.

## Swivel Cowl Ventilators

WITH INSIDE CONTROL  
GALVANIZED STEEL OR BRASS  
WITH CAST BRONZE DECK PLATES



Fig. 564

This is our Fig. 513 swivel type ventilator with collar under deck plate for passing through deck and a brass control rod and handle for operating from inside the cabin. Prices on application.

Note — Give size of vent, length of collar and length of control handle.

## Cast Bronze Cowl Ventilators

WITH CAST BRONZE 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	\$21.50	\$27.50	6	7 3/8	4 1/2
4	27.00	35.50	8	9 3/8	8 1/2

## Turbine Ventilators

FOR MARINE USE  
IMPROVED BEARING RUNNING IN OIL  
GALVANIZED STEEL 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.

Inside Diam. Inches	Galv. Steel Each	Copper Each	Height Overall Inches	Diam. Overall Inches	Capacity C.F.M.
4	\$16.50	\$21.50	8	10	125
5	16.75	21.75	9	10 1/2	135
6	17.00	22.00	11	11 1/2	175
7	18.00	24.00	12	11 1/2	225
8	19.00	27.00	14	14	280
10	21.50	32.00	16	15 1/2	445
12	26.00	39.00	18	17 1/2	650

Galvanized vents are painted green.

### VENTILATOR NOTES

Spare Deck Plates for above Cowl Ventilator, see Figs. 419 and 527.

When ordering ventilators only, without deck plate, please specify whether with or without ring on neck.

All above cowl ventilator sizes are standard; special sizes and heights made to order.

Covers for swivel deck plates, for use when cowl is removed, price on application.





### Oval Mouth Ventilators

CAST BRONZE

SCREW TYPE



Fig. 509

SWIVEL TYPE



Fig. 515

Swivel type Fig. 515 is supplied with cover for use when ventilator is removed.

Deck Plate Size Inches	Size Mouth Inches	Height Above Deck		Weight Pounds
		Fig. 509 Inches	Fig. 515 Inches	
3	6 1/4 x 4	8 1/8	9 1/8	6
4	6 1/2 x 4 3/4	8 3/8	9 3/8	8

Deck Plate Size Inches	Fig. 509		Fig. 515	
	Pol. Bronze Each	Chrom. Plated Each	Pol. Bronze Each	Chrom. Plated Each
3	\$22.50	\$29.00	\$26.50	\$33.00
4	30.00	38.00	34.00	42.00

### Space Saver Ventilators

CAST BRONZE—IMPROVED

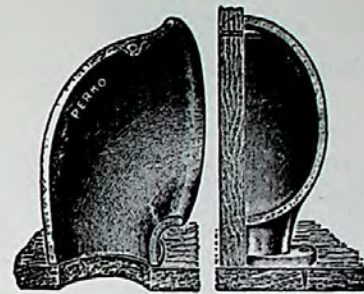


Fig. 782

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	
				Plain Bronze Per Pair	Chrome Plated Per Pair
1	2 1/2	2 3/8 x 5	6 3/4	\$ 9.00	\$16.00
2	3 1/2	3 1/8 x 7 1/2	9	13.00	19.50

### Midget Ventilators

CAST BRONZE—OVAL MOUTH  
BRONZE SWIVEL DECK PLATE AND COVER



Fig. 634

No.	Polished Bronze Each	Chromium Plated Each	Diam. Bottom Opening Inches	Extreme Height Inches	Size of Mouth Inches
2	13.00	17.00	2	8	2 1/4 x 4 1/2

### 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
\$15.00	\$17.00	7x7	3 1/2	4 3/4

### Transom Ventilators

CAST BRONZE



Fig. 1069

Plain Bronze Each	Pol. Bronze Each	Chrom. Plated Each	Size Flange Inches	Depth Collar Inches	Weight Pounds
\$1.50	\$2.50	\$3.50	6 3/4 x 2 1/4	3/4	3/4

With bronze screen soldered in, add \$.65 each.





## Clam Shell Ventilators

CAST BRONZE



Fig. 323

No.	Width Opening Inches	Height Opening Inches	Size Base Inches	Weight Oz.
4	2 3/4	1 3/4	3 3/8 x 3 1/2	11
5	3 1/2	2	4 x 3 7/8	14
	Plain Bronze Each		Polished Bronze Each	Chromium Plated Each
No. 4	\$1.60		\$2.10	\$2.85
No. 5	1.90		2.60	3.25

## Streamline Ventilator

CAST BRONZE



Fig. 324

No.	Width Opening Inches	Height Opening Inches	Size Base Inches	Weight Ounces
2	1 3/4	1	2 3/8 x 3 3/8	6
3	2 7/8	1 3/8	3 5/8 x 4 3/4	12
		Polished Bronze Each		Chromium Plated Each
No. 2		\$2.00		\$2.75
No. 3		2.25		3.00

## 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	\$5.00	\$6.00	3 1/2	2 3/4	5x6	1
7	6.25	7.50	4 3/8	3 1/4	6x7	2
8	8.25	10.00	5 3/4	3 1/2	7x8	2 3/4

## 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
\$4.75	\$6.60	3x1	7 1/2 x 4	1 1/2

## Ice Box Ventilators

CAST BRONZE—POLISHED



Fig. 783

No.	Polished Bronze Each	Chromium Plated Each	Diam. of Opening Inches	Size Plate Inches
1	\$4.75	\$6.85	1 5/8	2 1/2 x 2 1/2
2	5.00	7.15	2 1/2	3 1/4 x 3 1/4
3	6.25	8.50	3	4 1/8 x 4 1/8
4	7.75	10.25	3 3/8	4 7/8 x 4 7/8

## 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	\$ 5.50	\$ 7.70	3 3/8	12 oz.
2 1/2	6.00	8.25	4 1/2	1 lb.
3	7.20	9.35	4 7/8	1 1/4 lbs.
3 1/2	8.80	11.00	5 1/2	1 3/4 lbs.
4	10.50	12.00	5 3/4	2 1/4 lbs.
5	15.50	18.20	7 1/8	3 3/4 lbs.
6	19.25	22.50	8 1/4	4 1/2 lbs.
8	43.00	51.00	10 1/4	7 1/2 lbs.

## Swivel Deck Plates

CAST BRONZE—FOR COWL VENTILATORS

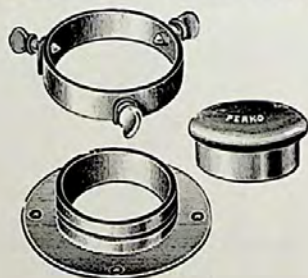


Fig. 419

Permits cowl to be turned to any direction.

For Size Ventilator Inches	Opening in Base Inches	Each	For Size Ventilator Inches	Opening in Base Inches	Each
3	2 1/4	\$ 8.50	8	7	\$25.30
4	3 1/2	12.90	10	9 1/2	42.00
5	4 1/2	16.00	12	11 1/4	51.00
6	5	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	Keys Only Each	Outside Diam. Plate Inches
1	\$ 1.70	\$ 1.95	\$ 3.15	\$ .30	2 1/2
1 1/2	2.15	2.40	3.75	.30	3 3/8
2	3.25	3.60	4.80	.40	3 3/8
2 1/2	3.75	4.20	5.50	.45	4 1/2
3	4.25	4.80	6.00	.45	4 7/8
3 1/2	5.50	6.00	7.50	.55	5 1/2
4	6.50	7.40	9.00	.65	5 3/4
5	9.75	11.00	13.25	.80	7 1/8
6	11.50	13.00	15.75	1.40	8 1/4
8	30.00	34.00	40.00	2.00	10 1/4

Covers only, price is 50% of complete plate.

## 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	Keys Only Each	Outside Diam. Plate Inches
3/4	\$ 2.00	\$ 2.25	\$ 3.50	\$ .30	2 3/8
1	2.30	2.50	4.00	.30	2 7/8
1 1/4	2.80	3.20	4.70	.40	3 1/8
1 1/2	3.10	3.60	5.20	.40	3 3/4
2	4.00	4.60	6.30	.45	4 1/4
2 1/2	4.80	5.45	7.30	.45	4 7/8
3	6.50	7.40	9.20	.55	5 3/8

Covers only, price is 50% of complete plate.

## Deck Plate Key

CAST BRONZE  
ADJUSTABLE TO ALL SIZES OF DECK PLATES  
IMPROVED UNBREAKABLE PINS

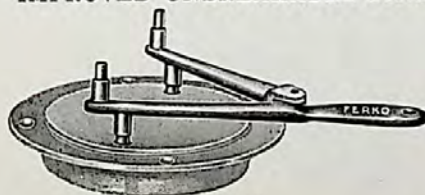


Fig. 826

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 1/4	1

## Automatic Boat Drainers

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

Diameter rubber ball, Size No. 1 is 1 1/4". Size No. 2 is 1 1/2".

## Garboard Drain Plugs

CAST BRONZE—PLAIN



Fig. 714

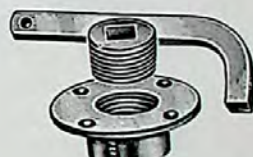


Fig. 124

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	\$1.25	1/2	2	3/8	3
124	2.50	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	Diam. Ball Inches
\$4.40	\$1.35	\$3.00	1 1/4	3 3/4	1 1/2



## NEW IMPROVED "PERKO" DASHBOARD STEERERS

WITH 15 INCH WHEEL—CREAM COLORED—HARD RUBBER, STEEL CORE  
 POLISHED ALUMINUM CASTINGS  
 DRUM TYPE—FOR TILLER ROPE

These new steerers have definite improvement over older models, both in looks and practicability.

**THE WHEEL** — Has an attractive glossy cream color, baked on by a new process that is resistant to wear, scratches and weather.

**THE THROTTLE CONTROL** — Of pleasing modern automotive design, it is located below the wheel as illustrated; thus located it is more readily available to the operator while out of the way of clothing and accidental operation. It also provides more direct and positive operation of the throttle with less effort than the old center-of-wheel type.

### Adjustable Bracket Type

WITH UNDER-DECK SUPPORTS

The dash bracket is adjustable to various angles of dashboard, also up or down the shaft to increase or decrease the length. The under-deck supports are individually hinged for any problem of installation.

WITHOUT THROTTLE CONTROL

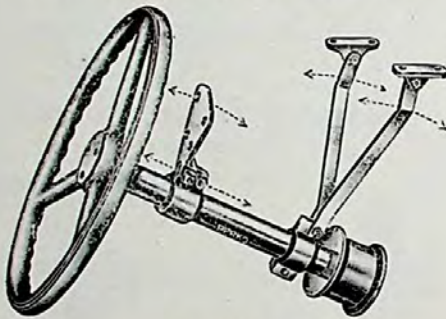


Fig. 535

Each	Length Overall Inches	Diam. Drum Inches	Length Supports Inches	Weight Pounds
\$23.50	16	3	11	7

### Non-Adjustable Type

WITH FIXED DASH BRACKET  
 22 DEGREES

The dash bracket is at a fixed angle but past experience shows that 22 degrees is about correct for the majority of outboard runabout hulls.

WITHOUT THROTTLE CONTROL

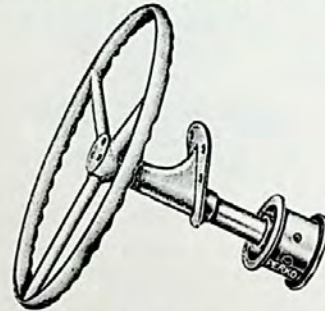


Fig. 537

Each	Length Overall Inches	Diam. Drum Inches	Length Dash to Wheel Inches	Weight Pounds
\$18.50	13	3	6	5

WITH THROTTLE CONTROL

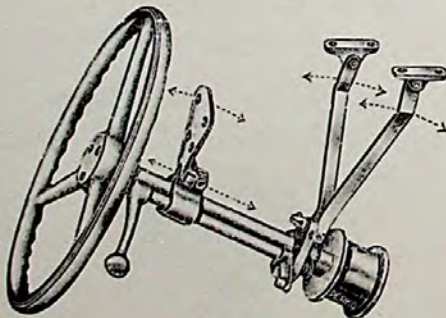


Fig. 536

Each	Length Overall Inches	Diam. Drum Inches	Length Supports Inches	Length Control Handle Inches	Weight Pounds
\$27.50	16	3	11	6	8

WITH THROTTLE CONTROL

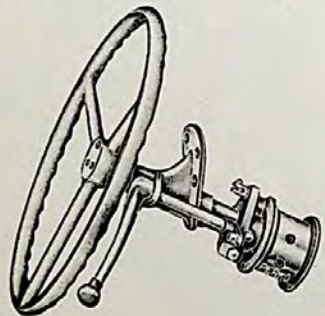


Fig. 538

Each	Length Overall Inches	Diam. Drum Inches	Length Dash to Wheel Inches	Length Control Handle Inches	Weight Pounds
\$23.50	13	3	6	6	6





### 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.

WITH 22 DEGREE BRACKET

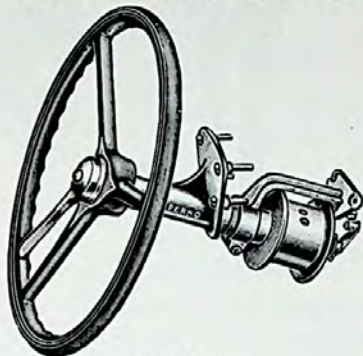


Fig. 1131

Without Controls Each	With Controls Each	Length Dash to Wheel Inches	Length Overall Inches	Diam. Drum Inches	Weight Pounds
\$16.50	\$20.00	6 1/2	13	3	8

WITH 40 DEGREE BRACKET

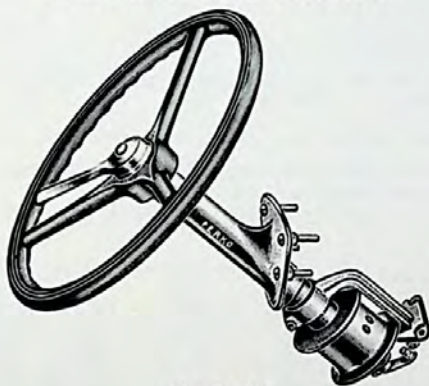


Fig. 1149

Without Controls Each	With Controls Each	Length Dash to Wheel Inches	Length Overall Inches	Diam. Drum Inches	Weight Pounds
\$16.50	\$20.00	10 1/2	17	3	9 1/4

### Handles and Bolts FOR STEERING WHEELS



Fig. 553

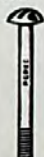


Fig. 554

Handles Only		Galvanized Bolts Only		Bronze Bolts Only	
Length Inches	Each	Size Inches	Each	Size Inches	Each
3	.25	3/8 x 3 1/2	.25	3/8 x 3 1/4	.35
3 1/2	.30	1/2 x 4 1/4	.35	1/2 x 4	.45
4	.40			1/2 x 4 1/2	.55

### Racing Outboard Steerers

WITHOUT CONTROLS  
CREAM COLORED WHEEL



Fig. 737

All metal parts are aluminum alloy castings for light weight. Wheel is 3 spoke hard rubber in glossy cream finish with steel core.

Each	Diam. Wheel Inches	Diam. Base Inches	Overall Height Inches	Diam. Drum Inches	Weight Pounds
\$15.00	15	6 1/4	6	3	6 1/2

### Racing Outboard Steerers

WITH REMOTE THROTTLE CONTROL AND CUTOUT



Fig. 447

Cast aluminum alloy with black finish hard rubber steel cored wheel.

Each	Diam. Wheel Inches	Diam. Base Inches	Overall Height Inches	Diam. Drum Inches	Weight Pounds
\$16.00	15	7 1/8	6	3	7 1/2

### Drum Steerers

GALVANIZED MALL. IRON OR CAST BRONZE FOR TILLER ROPE



Fig. 661

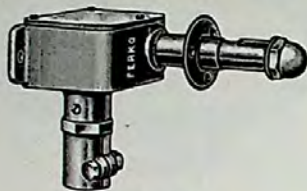
Overall Diam. Inches	Galv. Each	Polished Bronze Each	Size Base Inches	Diam. Drum Inches	Length Drum Inches
12	\$ 7.50	\$10.00	3 3/8 x 3 3/8	2 3/8	3
16	10.25	15.50	4 x 4	2 3/8	3 3/8
20	17.75	26.50	5 1/8 x 5 1/8	3 1/8	4 3/8
25	30.00		5 3/4 x 5 3/4	4	6





## Worm Geared Steerer

ALL BRONZE—WITHOUT WHEEL OR FITTINGS  
 MODEL A-1—FOR WHEEL BOX MOUNTING  
 MODEL E—FOR THRU-BULKHEAD MOUNTING  
 FOR 1 INCH DIAMETER VERTICAL SHAFT



Model A-1  
 Fig. 512

Steering ratio, 10 1/2 to 1. 1 1/4 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 Box Overall Inches	Weight Pounds
\$43.50	1	4	2 1/8	7x2 1/2	13 3/4

Model E — With reversed shaft for thru-bulkhead mounting carried in stock, 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

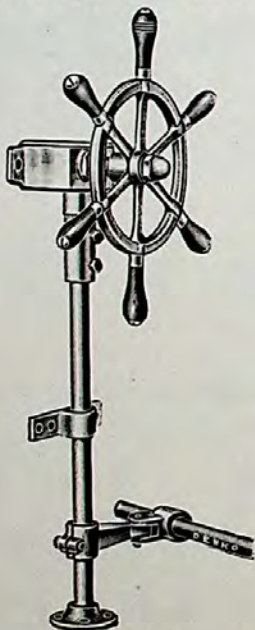


Fig. 820

	Each
Complete with 16 inch bronze wheel.....	\$80.00
Complete with 20 inch bronze wheel.....	85.00
Complete with 24 inch bronze wheel.....	96.00

### SPARE PARTS

Bronze wheels only, see Fig. 976, Sizes 4, 5 and 6.	
Lower lever with clevis, Fig. 865, Nos. 1 and 5....	\$9.90
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 \$2.00 each.

## Chain Type Steerers

ALL BRONZE—WITH ROLLER CHAIN  
 FOR WHEEL BOX MOUNTING

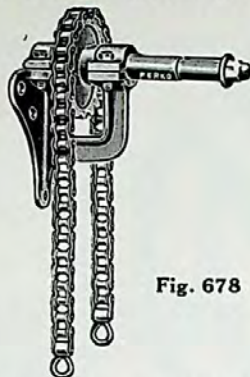


Fig. 678

Sprocket, 4 3/8 inch diameter, 21 teeth.

Chain, 36 inches long, 5/8 inch pitch.

Shaft machined for hub 2 1/8 inches thick.

Wheel End of Shaft Inches	Each	*Length Shaft Inches	Dimensions of Bracket Inches	Weight Pounds
7/8	\$37.00	2 3/8	6x5 1/2	11
1	40.00	2 7/8	6x5 1/2	11 1/2

\*Length between bracket and wheel.

Chain only, without Shackles, 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

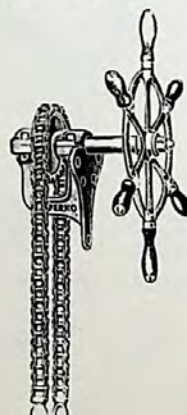


Fig. 675  
 For Thru-Bulkhead Mounting

Outside Diameter Wheel Inches	Polished Bronze Each	Chromium Plated Each	Machined Wheel End of Shaft Inches	Diam. Shaft Inches
16	\$46.00	\$53.00	7/8	1
20	53.00	60.00	7/8	1
24	63.00	70.00	1	1

Wheel, shaft and nut only are polished or plated, balance of steerer is plain bronze.

Wheel only, see fig. 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	\$75.00	$\frac{7}{8}$
24	83.00	1
28	95.00	1

Steerer only, see Fig. 678.

Wheel only, see Fig. 657.

### Steering Wheels

CAST BRONZE—WOOD GRIPS

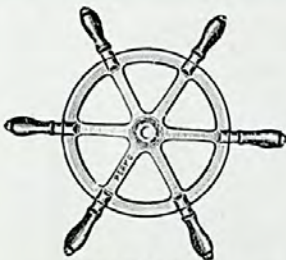


Fig. 976

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	\$12.00	\$16.00	$\frac{7}{8}$	1	$\frac{1}{4}$
2	20	16.50	22.00	$\frac{7}{8}$	1	$\frac{1}{4}$
3	24	27.50	33.00	1	$1\frac{1}{4}$	$\frac{1}{4}$

With Long Hub for steerers Figs. 512 and 678

4	16	\$17.00	\$21.00	$\frac{7}{8}$ or 1	$2\frac{1}{8}$	$\frac{1}{4}$
5	20	22.00	27.50	$\frac{7}{8}$ or 1	$2\frac{1}{8}$	$\frac{1}{4}$
6	24	33.00	38.50	1	$2\frac{1}{8}$	$\frac{1}{4}$

### Electrolysis Eliminators

PURE ZINC

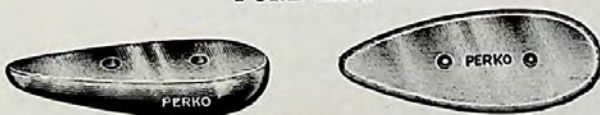


Fig. 244

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
\$1.80	$5\frac{1}{4}$	$2\frac{1}{8}$	1	$1\frac{1}{2}$

### 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	\$20.00	\$24.00	$\frac{7}{8}$	1	$\frac{1}{4}$
2	20	23.00	28.50	$\frac{7}{8}$	1	$\frac{1}{4}$
3	24	28.50	34.00	1	$1\frac{1}{4}$	$\frac{1}{4}$

With Long Hub for steerers Figs. 512 and 678

4	16	\$23.00	\$27.00	$\frac{7}{8}$ or 1	$2\frac{1}{8}$	$\frac{1}{4}$
5	20	26.50	32.00	$\frac{7}{8}$ or 1	$2\frac{1}{8}$	$\frac{1}{4}$
6	24	32.00	37.50	1	$2\frac{1}{8}$	$\frac{1}{4}$

### Mahogany Steering Wheels

INLAID RIM—CAST BRONZE HUB

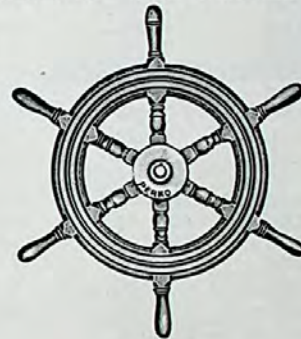


Fig. 657

Diam. Overall Inches	Each	For Diam. Shaft Inches	Thickness of Hub Inches	Size Keyway Inches
18	\$36.00	$\frac{7}{8}$	$2\frac{1}{8}$	$\frac{1}{4}$
20	38.50	$\frac{7}{8}$ or 1	$2\frac{1}{8}$	$\frac{1}{4}$
24	43.50	1	$2\frac{1}{8}$	$\frac{1}{4}$
28	55.00	1	$2\frac{1}{8}$	$\frac{1}{4}$
30	69.00	1	$2\frac{1}{8}$	$\frac{1}{4}$
36	105.00	$1\frac{1}{4}$	$2\frac{1}{2}$	$\frac{3}{8}$
42	116.00	$1\frac{1}{4}$	$2\frac{1}{2}$	$\frac{3}{8}$
48	126.00	$1\frac{3}{8}$	$2\frac{1}{2}$	$\frac{3}{8}$

With banded rim to order, price on application.

### Bronze Rudder Collars



Fig. 815

For Diam. Stock Inches	Each	Outside Diameter Inches	Thickness Inches	Weight Ounces
1	\$2.00	$1\frac{3}{4}$	$\frac{1}{8}$	7
$1\frac{1}{8}$	2.00	$1\frac{3}{4}$	$\frac{1}{8}$	$6\frac{1}{2}$
$1\frac{1}{4}$	2.65	$2\frac{1}{8}$	$\frac{1}{8}$	11
$1\frac{3}{8}$	3.25	$2\frac{1}{2}$	$1\frac{1}{8}$	19
$1\frac{1}{2}$	3.50	$2\frac{1}{2}$	$1\frac{1}{8}$	19



### Columbian Propellers

MANGANESE BRONZE—AILSA CRAIG TYPE

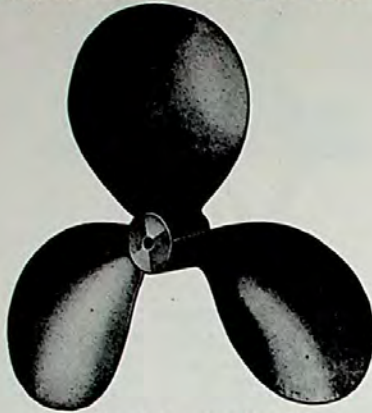


Fig. 809—1st Quality  
Fig. 739—Peerless Quality

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	1
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 1/4
14	17.80	15.35	3.25	1 1/4
15	20.20	17.20	3.75	1 3/8
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	2
24	66.55	56.60	6.25	2
25	72.00	61.45	6.90	2 1/4
26	80.95	68.80	7.50	2 1/4
27	88.55	75.35	8.00	2 1/2
28	96.80	82.25	8.00	2 1/2
30	114.40	97.25	9.40	2 3/4

Larger sizes — on application.  
With larger hub for larger bore—on application.  
2 blade and special styles—on application.

### New Runabout Rudders

HARD MUNTZ METAL BLADE—BRONZE SHAFT



Fig. 824

Muntz metal having a composition of 60% copper and 40% zinc has a tensile test of 80,000 pounds, which is higher than that of the best quality brass

Length of shaft above blade is 12 inches. Special lengths to order, price on application.

No.	Each	Width of Blade Top Inches	Width of Blade Bottom Inches	Height of Blade Inches	Thickness of Blade Inches	Diam. Shaft Inches
1	\$12.00	8	7	7	1/8	3/4
2	17.00	9	8	8	1/8	1

Weight No. 1, 4 pounds; No. 2, 7 1/4 pounds.

### 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

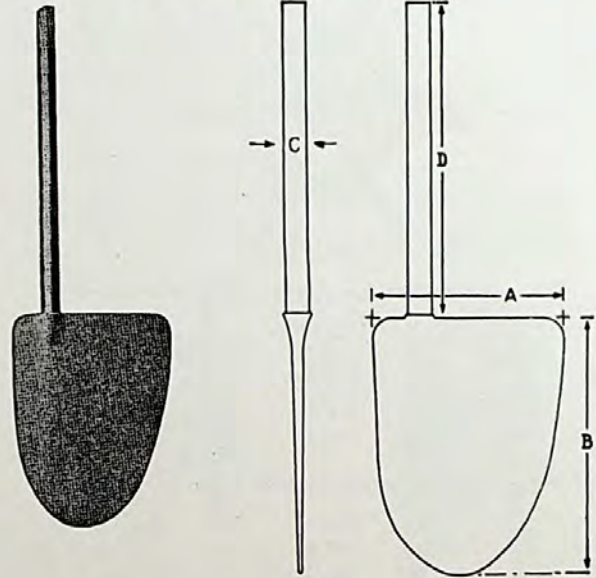


Fig. 818

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	Weight Pounds
1	\$21.45	\$.20	9	12	1	16	12 1/2
2	26.15	.25	10 1/2	14	1 1/8	18	15
3	27.50	.35	12	16	1 1/4	18	20
4	36.85	.40	13 1/2	18	1 3/8	24	30
5	52.00	.45	15	20	1 1/2	24	40
6	76.50	.60	16 1/2	22	1 3/4	30	69
7	104.00	.75	18	24	2	36	84
8	141.00	.90	20	26	2 1/4	40	120
9	220.00	1.00	24	30	2 1/2	48	225





**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	1/4	18	.39
20x20	46.00	1/4	1/4	18	.39
22x18	47.85	1/4	1/4	18	.39
22x20	60.00	3/8	1/4	18	.39
22x22	61.60	3/8	1/4	18	.39
24x20	61.60	3/8	1/4	18	.39
24x22	63.00	3/8	1/4	18	.39
24x24	64.65	3/8	1/4	18	.39

**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
00	\$ 5.75	6x 8x 1/8	3/8	25	3/4	3
0	9.50	12x 12x 1/8	3/8	40	3/4	11
1	11.50	14x 14x 1/8	3/8	42	3/4	13
2	17.00	16x 16x 1/8	3/4	48	1	25
3	21.00	18x 18x 1/8	3/4	52	1	35

**Rudder Skags**  
DROP FORGED STEEL OR BRONZE



Fig. 649

Size No.	Galv. Each	Plain Bronze Each	Dimensions Inches	For Rudder Post Inches	Each Pounds Weight
0	\$3.50	\$ 7.50	24x 1 1/2 x 3/8	3/4	4 1/2
1	5.25	12.00	30x 1 3/4 x 1/2	3/4	9
2	9.50	23.00	42x 2 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	\$2.35	\$4.20	3/8 x 3/8	1
10	2.65	4.80	3/8 x 3/8	1 3/4
12	4.00	5.10	3/4 x 3/4	2 1/8
15	5.00	9.50	7/8 x 7/8	3 1/2

**Quadrant Tillers**  
GALVANIZED MALLEABLE IRON



Fig. 651

Radius Inches	Galv. Each	Max. Diam. Rope Inches	Square Hole Adjustable Inches	Weight Pounds
7	\$ 4.80	3/8	5/16 to 3/4	3
10	10.00	3/8	5/16 to 1	5 1/4
12	12.00	3/8	3/4 to 1 1/4	8 1/2
15	18.25	1/2	3/4 to 1 1/4	13
16	30.00	3/8	1 to 1 3/8	27
24	60.00	3/4	1 1/2 to 1 3/4	46

Note: 7 inch size is galv. cast iron.

**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	\$ 5.00	8	3/4 or 1	5/16 or 1/4	1 1/2
2	6.00	10	1	1/4	2
3	7.00	12	1	1/4	3 1/4
4	11.00	14	1 1/8	1/4	4 1/2
5	17.50	16	1 1/4	5/16	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	\$8.00	4 x 2	5 1/8	1/8	3
7/8	8.25	4 1/4 x 2 1/4	5 3/8	3/8	3 1/4
1	8.60	4 1/4 x 2 1/2	5 1/4	3/8	3 1/2
1 1/8	9.25	5 x 2 5/8	5 1/4	1/2	3 3/4
1 1/4	11.45	5 3/4 x 3	6 3/8	1/2	5 1/2
1 3/8	12.50	6 1/4 x 3 1/4	6 3/4	1/2	6 1/2
1 1/2	13.60	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
00	\$0.55	\$0.65	3/8	2 3/8	3/4	4
0	.60	.75	3/4	3 1/2	7/8	6
1	.90	1.00	3/8	4 1/4	7/8	7
2	1.05	1.15	1	4 1/2	1	10
3	1.40	1.60	1 1/4	4 3/4	1	11
4	1.80	2.00	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
00	\$0.40	\$0.50	3/8	2	1/8	2 1/2
0	.45	.55	3/4	2 1/2	1/2	3 1/2
1	.60	.70	3/8	3	1/2	4 1/2
2	.70	.85	1	3	1/4	5
3	.85	1.00	1 1/4	3 1/4	3/8	7
4	1.00	1.20	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
00	\$0.45	\$0.50	1 7/8	1	1/8	2
0	.50	.55	2	1 1/8	1/8	3
1	.55	.60	2 1/8	1 1/8	1/2	3 1/2
2	.65		2 3/8	1 1/4	1/8	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
00	\$0.45	\$0.50	3 3/8	3/4	1/8	3 1/2
0	.50	.55	3 1/2	7/8	1/8	4 1/2
1	.55	.60	3 5/8	7/8	1/2	6
2	.65	.75	4 1/4	1	1/4	7
3	.85	.90	4 1/2	1 1/8	3/4	8
4	.95	1.10	4 3/4	1 1/4	1/2	10

## SCREW TYPE

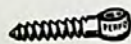


Fig. 1074

Size No.	Galv. Each	Plain Bronze Each	Diam. Shank Inches	I. D. Hole Minimum Inches	Weight Ounces
00	\$0.22	\$0.25	3/8	1/8	1
0	.28	.30	3/8	1/8	1 1/2
1	.40	.45	1/2	1/8	1 1/2
2	.45		1/2	1/8	2

## Sliding Rudder Fittings

CAST BRONZE

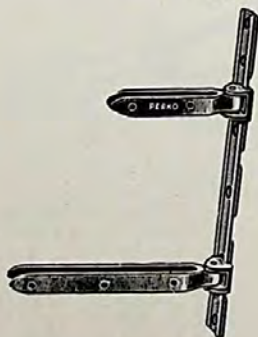


Fig. 552

For use on dinghys and small sail boats. The rudder slides on a cast bronze track which has a stop at the bottom.

Between Straps Inches	Width Track Inches	Length Track Inches	Wt. Per Set Lbs.
7/8	1	18	4

Length inside short strap 5 1/2", long strap 10".

Complete Per Set \$10.50  
Track Only Each \$4.50



## "Perko" Reverse Gear Controls

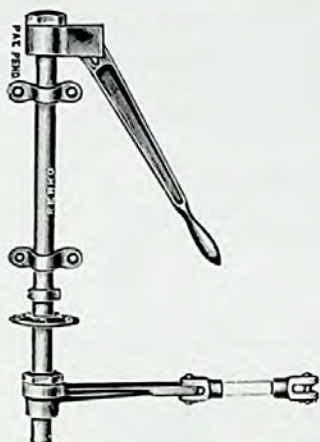
HEAVY CAST BRONZE—POLISHED  
FOR 1 INCH OR 1 1/8 INCH SHAFT

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.

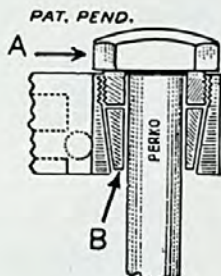


Fig. 663

Length Handle Inches	Length Lower Lever Inches	Sockets Threaded for Rod Inches	Bulkhead to Center of Shaft Inches	Weight Without Shaft Pounds
18	10	3/4	2	15 1/4

Fittings complete—except shaft.....\$32.00

Handle complete with tapered bushing and nut..... 19.50

Chromium plated, add 40% to above prices.

Do not fail to specify size of shaft when ordering; parts for 1 1/8 inch shaft supplied unless otherwise specified.

## 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 3/4 inches. Length of throw is 8 1/2 inches.



Fig. 720

Polished Bronze Each	Chromium Plated Each	Length Handle Inches	Length Lever Inches
\$32.00	\$38.00	25	8

## "Perko" Reverse Gear Controls

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

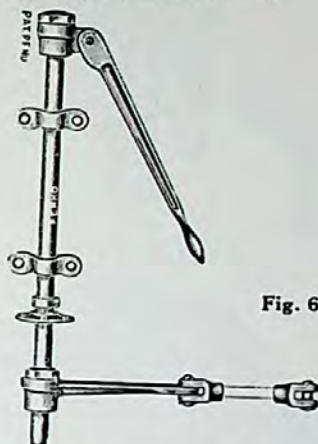


Fig. 664

Length Handle Inches	Length Lower Lever Inches	Sockets Threaded for Rod Inches	Bulkhead to Center of Shaft Inches	Weight Without Shaft Pounds
18	10	3/4	2	13 1/4

Fittings complete—except shaft.....\$26.50

Handle complete with tapered bushing and nut..... 14.00

Chromium plated, add 40% to above prices.

Specify size of shaft when ordering; parts for 1 inch shaft supplied unless otherwise specified.

## Clutch Control

CAST BRONZE—FOR 1 INCH SHAFT

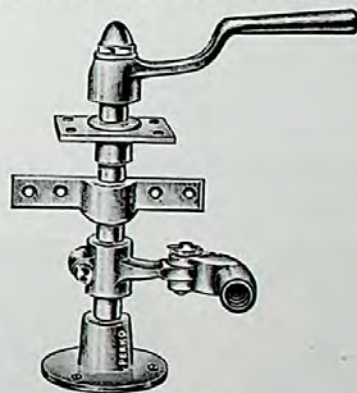


Fig. 822

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
\$29.50	\$37.00	\$30.50	\$38.00	\$31.50	\$39.25

### 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.

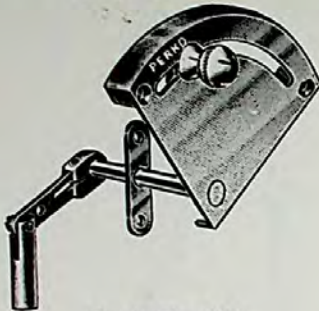
NOTE—Spare parts for Figs. 663 and 664 see Fig. 865, Nos. 2, 7, 10, 12.



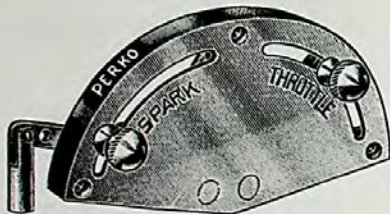


## New Spark and Throttle Controls

RATCHET TYPE—FOR CONTROL ROD  
CAST BRONZE



Single Fig. 687



Double Fig. 688

Modern in design, the clean polished surface with all parts enclosed is very attractive. An internal ratchet holds the control at the setting required.

For  $\frac{1}{4}$  or  $\frac{1}{8}$  inch rod, the former is supplied unless otherwise specified.

For wood up to  $2\frac{1}{4}$  inches thick.

Length of throw is  $2\frac{3}{4}$  inches.

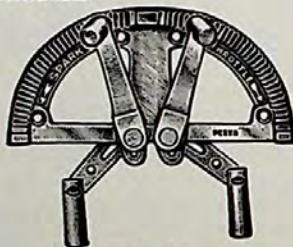
Fig.	Polished Bronze Each	Chromium Plated Each	Dimensions Inches	Weight Pounds
687	\$5.25	\$ 7.00	5x3 $\frac{3}{4}$	$\frac{7}{8}$
688	9.50	11.75	7x3 $\frac{1}{2}$	1 $\frac{1}{2}$

## 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  $1\frac{1}{8}$  inches thick. Rod sockets are for  $\frac{1}{4}$  or  $\frac{1}{8}$  inch rod.

Length of throw is 3 inches.

Fig.	Polished Bronze Each	Chromium Plated Each	Size Frame Inches
690	\$4.25	\$6.00	4 $\frac{1}{4}$ x3 $\frac{1}{8}$
691	8.00	11.75	6 x 3

## Spark and Throttle Controls

FOR CONTROL ROD OR BOWDEN WIRE  
FRICTION TYPE—CAST BRONZE

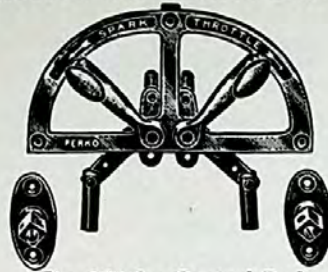


Fig. 653 for Control Rod  
Fig. 654 for Bowden Wire

Fig. 653 is equipped with Fig. 328 Rod Sockets, tapped for  $\frac{1}{4}$  or  $\frac{1}{8}$  inch rod.  $\frac{1}{4}$  inch sockets are supplied unless otherwise specified.

Fig. 654 is equipped with Fig. 679 Wire Sockets and two Fig. 352 Casing Clamps.

Both are for bulkheads up to 2 inches thick.

Length of throw is  $2\frac{3}{4}$  inches.

Fig.	Polished Bronze Each	Chromium Plated Each	Size Frame Inches	Weight Each Pounds
653	\$8.00	\$11.00	6 $\frac{1}{2}$ x3 $\frac{1}{4}$	1 $\frac{1}{4}$
654	9.40	12.40	6 $\frac{1}{2}$ x3 $\frac{1}{4}$	1 $\frac{1}{2}$

## Spark and Throttle Control

RATCHET TYPE—FOR CONTROL ROD  
CAST BRONZE—ADJUSTABLE



Fig. 904

Position can be changed by loosening one screw. Sockets are tapped for  $\frac{1}{4}$  or  $\frac{1}{8}$  inch rod.

Length of throw is  $2\frac{3}{4}$  inches.

	Polished Bronze Each	Chromium Plated Each	Dimensions of Base Inches	Dimensions of Frame Inches	Weight Ounces
Single	\$4.00	\$6.75	2x $\frac{3}{8}$	4 $\frac{1}{2}$ x3 $\frac{3}{4}$	10
Double	6.25	9.25	2x $\frac{3}{8}$	4 $\frac{1}{2}$ x3 $\frac{3}{4}$	13

## Control Levers

CAST BRONZE—PLAIN



Fig. 354

No.	Each	Length Overall Inches	For Shaft Inches	For Clevis Pin Inches	Weight Ounces
1	\$ .60	2 $\frac{1}{2}$	$\frac{1}{8}$	$\frac{3}{8}$	1
2	1.00	3 $\frac{3}{4}$	$\frac{1}{8}$	$\frac{3}{8}$	1 $\frac{1}{2}$

NOTE—PLEASE SPECIFY SIZE OF ROD, OTHERWISE  $\frac{1}{4}$  INCH SOCKETS WILL BE SUPPLIED.



**"Sea-Husky"**  
**Spark and Throttle Control**  
 RATCHET TYPE—FOR CONTROL ROD  
 CAST BRONZE

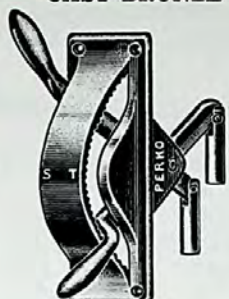


Fig. 331

Length of throw is 3 inches.  
 Specify whether for  $\frac{1}{4}$  or  $\frac{1}{8}$  inch rod.

Polished Bronze Each	Chromium Plated Each	Length Plate Inches	Width Plate Inches	Weight Pounds
\$12.00	\$14.50	6	2 $\frac{1}{2}$	2 $\frac{3}{4}$

**Throttle Controls**  
 FOR ROD OR CONTROL WIRE  
 CAST BRONZE—RATCHET TYPE



Fig. 715  
 For Control Wire

Handle is black bakelite. Fig. 716 supplied for  $\frac{1}{4}$  or  $\frac{1}{8}$  inch rod. Please specify.

Length of throw is 3 inches.

Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Length Plate Inches	Width Plate Inches	Weight Pounds
\$8.75	\$11.00	\$12.50	6	2 $\frac{3}{8}$	2



Fig. 716  
 For Control Rod

**Spark and Throttle Control**  
 RATCHET TYPE—FOR CONTROL WIRE  
 CAST BRONZE

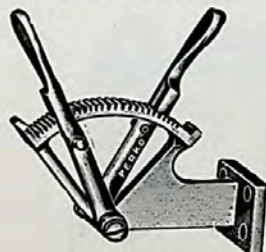


Fig. 409

Length of throw is 3 inches.

	Polished Bronze Each	Chrom. Plated Each	Length Arc Inches	Extreme Projection Inches	Mounting Plate Inches	Weight Pounds
Single	\$5.50	\$9.00	2 $\frac{3}{8}$	5	1 $\frac{7}{8}$ x1 $\frac{3}{8}$	$\frac{3}{4}$
Double	8.00	12.00	2 $\frac{3}{8}$	5	1 $\frac{7}{8}$ x1 $\frac{3}{8}$	1

**"Sea-Way" Throttle Control**  
 RATCHET TYPE—FOR  $\frac{1}{4}$  INCH ROD  
 CAST BRONZE



Fig. 847

A powerful control with a man sized handle. For mounting on top of wheel box or shelf.

A spring type ratchet inside handle hub holds control at desired position.

Polished Bronze Each	Chromium Plated Each	Length Handle Inches	For Rod Diam. Inches	Diam. Flange Inches	Weight Pounds
\$8.00	\$9.50	4 $\frac{1}{2}$	$\frac{3}{8}$	2 $\frac{3}{8}$	1

**"Sea-Prince" Throttle Control**  
 RATCHET TYPE—FOR  $\frac{1}{4}$  INCH ROD  
 CAST BRONZE



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.

Length of throw is 5 inches.

Polished Bronze Each	Chromium Plated Each	Length Handle Inches	Length Lever Arm Inches	Diam. Flange Inches	Weight Pounds
\$9.00	\$10.00	4 $\frac{1}{2}$	3 $\frac{1}{2}$	2 $\frac{3}{8}$	1

**Control Cranks**

CAST BRONZE—PLAIN— $\frac{1}{4}$  OR  $\frac{1}{8}$  INCH ROD  
 SIDE OR UPRIGHT TYPES

Side Type

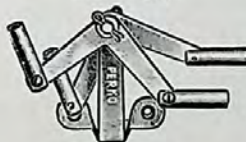


Fig. 636

Length Arms Inches	Height Overall Inches
2	2 $\frac{3}{8}$

Upright Type

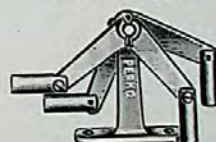


Fig. 637

Size Base Inches	Weight Single Ounces	Weight Double Ounces
2 $\frac{1}{4}$ x $\frac{3}{8}$	5	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
$\frac{1}{8}$	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.



## Improved Throttle Controls

RATCHET TYPE—FOR CONTROL WIRE  
CAST BRONZE



Side Mounting  
Fig. 350



Floor Mounting  
Fig. 351

A decided improvement over the old style controls. A straight push and pull of the control wire gives smooth action and no kinks.

The spring type ratchet holds the control at the speed desired, non slip.

Fig.	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Size Frame Inches	Height Overall Inches	Weight Ounces
350	\$3.25	\$6.25	\$7.25	4½x4	6½	12
351	\$3.50	6.50	7.50	4½x3¾	6½	13

## New Safety or Racing Controls

CAST ALUMINUM  
INSTANT SHUT-OFF OF MOTOR  
WHEN RELEASED

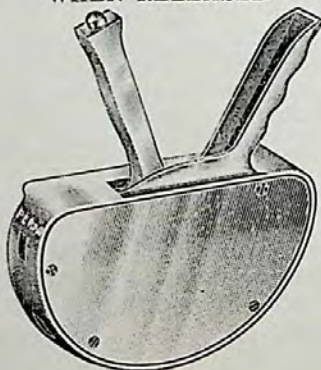


Fig. 247

A must for racing boats and a type that should be used on all fast boats whether used for racing or pleasure.

The control handle is under strong spring tension which snaps it back to the off position as soon as the operator's grip is released, yet it can be set at a desired position by pressing the ratchet control button on top of handle.

This control has a simple idling adjustment that can be reached from outside. It is not necessary to remove the cover.

Control wire has two positions on lever for pushing or pulling.

Each	Dimensions of Housing Inches	Length Handle Inches	Weight Pounds
\$12.00	7¼x4¾	4½	1¾

## 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 50 feet each. Casing is left hand lay.

	Complete Per Foot	Casing Only Per Foot	Wire Only Per Foot	O. D. Casing Inches	Diam. Wire Inches
Steel	\$.12	\$.09	\$.03	¼	.072
Brass	.24	.20	.04	¼	.072

## Improved Control Wire Handles

ALL BRASS

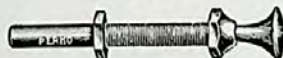


Fig. 692

Control wire and casing can be easily attached. No soldering necessary, wire held by set screw in knob, casing threaded into tube. For use on a dash or bulk-head up to 2 inches thick. Threaded for casing with left hand lay.

Polished Brass Each	Chromium Plated Each	Length Overall Closed Inches	Outside Diam. Stem Inches	Weight Ounces
\$1.75	\$2.00	4½	¾	3

## 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
\$ .65	2¼x1	3





### Control Rod Sockets

PLAIN BRASS

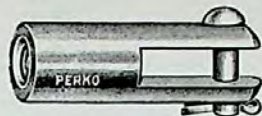
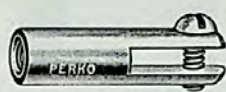


Fig. 328

Fig. 295

No.	Each	Tapped For Rod Inches	Outside Diam. Inches	Standard Overall Length Inches	Fig. 328 Overall Length Inches	Fig. 295 Between Jaws Inches	Length Jaws Inches
1	\$.30	1/4	7/16	1 5/8	1 5/8	3/16	3/4
2	.30	3/8	7/16	1 5/8	1 5/8	3/16	3/4
3	.35	1/4	1/2	1 7/8	1 7/8	1/4	1
4	.35	3/8	1/2	1 7/8	1 7/8	1/4	1
5	.50	3/8	1/2	1 7/8	1 7/8	1/4	1

Length jaws measured to center of pin.

### Control Rod Sockets

EXTRA HEAVY TYPE—BRASS—PLAIN



Fig. 298

Made from 1/2 inch square brass rod.

No.	Each	Tapped For Rod Inches	Outside Diam. Inches	Overall Length Inches	Between Jaws Inches	Length Jaws Inches
6	\$.40	1/4	7/16	1 1/2	1/4	1/2
7	.40	3/8	7/16	1 1/2	1/4	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.

No.	Each	Length Inches	Diameter Inches	Between Jaws Inches	Length Jaws Inches	Weight Ounces
1	\$.35	1	3/8	1/8	1/2	1/2

Length jaws measured to center of cotter pin.

### Brass Ball Joints

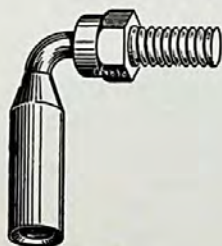


Fig. 792



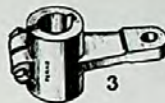
Fig. 793

Fig. 793 is adjustable for wear. Spring tension around ball with screw for adjusting.

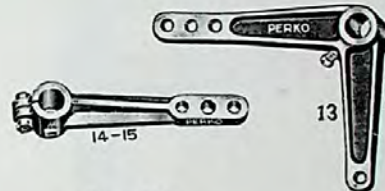
No.	Fig. 792 Each	Fig. 793 Each	Thread Inches	Length Thread Inches	O. D. Female End Inches	Weight Ounces
1	\$.35	\$.55	1/4-20	1/2	7/8	1/2
2	.50	.70	1/8-18	1/2	1 1/8	1

### Steerer and Control Parts

CAST BRONZE



PERKO



No.	Each	Length Overall Inches	Length Center of Bore Inches	Tapped for Rod Inches	Tapped for Pipe Inches	Bored for Shaft Inches	Weight Pounds
1	\$6.30	8	6			1	2 1/8
2	2.30	2 3/4		3/4	1/2		3/4
*2A	3.00	4		1	3/4		1 1/4
3	6.00	4 1/2	2 3/4			1	1 1/2
4	4.50	3 1/2		1	3/4		1 1/2
5	3.60	3	1 3/4	1	3/4		1 1/4
13	6.60	**	**			1	2 1/2
†14	5.25	8	5-6			3/4	1 1/8
‡15	6.00	9	5-6-7			1	1 3/4

No.	Each	Length Overall Inches	Width Overall Inches	Outside Diam. Inches	Bored for Shaft Inches	Center of Bore Inches	To Center of Bore Inches	Weight Pounds
6	\$4.90	7	1		1	1 1/8	1	1
7	4.90	4 1/2	1		1 or 1 1/8	2	1	1 1/8
8	4.80			3 3/4				1 1/8
9	4.00	4	3 1/4					1 1/8
10	4.25			4	1 or 1 1/8			1
11	4.25			4	1			2
12	1.60			1 3/8	1 or 1 1/8			1/4

\*Same style as No. 2.

\*\*Short arm 6 inch centers. Long arm, 6, 7 and 8 inch centers.

†Has two holes with 5 and 6 inch centers.

‡Has three holes with 5, 6 and 7 inch centers.

Items Nos. 6, 7, 8, 9, 10 and 12 are polished. All others are in plain finish.

Items Nos. 1, 2, 3, 4, 5, 13, 14, 15 are bored for 1/2 inch bolt.

Items Nos. 2, 2A, 4 and 5 have 1/2 inch jaws.

Item No. 11 is 2 1/8 inches high.

Note — When ordering items 2, 2A, 4 and 5 specify whether tapped for rod or pipe.





**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	1 1/8	2 3/8	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 1/8	3	2 5/8	1 1/2
1	4.50	4 1/4 x 2 1/8	1 1/8	3	2 5/8	1 3/4
1 1/8	5.20	4 7/8 x 2 1/8	1 1/2	3 3/8	2 7/8	2 1/4
1 1/4	6.15	5 3/4 x 2 3/8	1 1/2	4 1/8	2 7/8	3
1 3/8	7.15	6 1/4 x 3	1 1/2	4 3/4	3	3 1/4
1 1/2	8.15	6 1/2 x 3	1 1/2	5	3	3 1/2
1 3/4	12.65	7 x 3 3/4	5/8	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	3/8	5 3/8	4 3/4	6 1/2
1 3/8	11.70	7.80	7 7/8 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	5/8	6 1/2	5 7/8	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 3/8	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 7/8 x 1 3/4	1/8	2 3/8	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	1/8	3	2 5/8	1
1	2.40	4 1/4 x 2 1/8	1/8	3	2 5/8	1 1/4
1 1/8	2.90	4 7/8 x 2 1/8	1/2	3 3/8	2 5/8	1 1/2
1 1/4	3.60	5 3/4 x 2 3/8	1/2	4 1/8	2 5/8	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

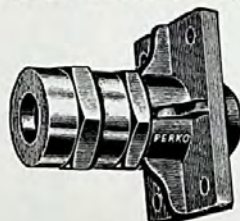


Fig. 819

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 3/8 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

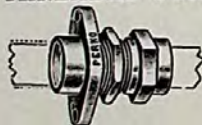


Fig. 711



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 3/8	1 1/2	1/2
1 1/2	9.55	5.50	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

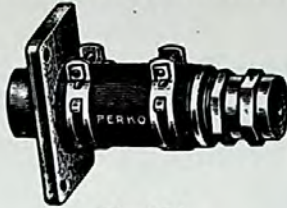


Fig. 734

No.	Each	For Shaft Inches	Size Flange Inches	Length from Flange to End of Box Inches	Weight Pounds
1	\$9.50	3/4	5x3 1/4	6 1/2	5
2	9.75	7/8	5x3 1/4	6 1/2	5
3	10.00	1	5x3 1/4	6 3/4	5
4	12.00	1 1/8	6x4 1/4	7 3/4	9
5	14.00	1 1/4	6x4 1/4	7 3/4	9 1/2
6	16.00	1 3/8	7x4 1/2	8	12 1/2
7	18.00	1 1/2	7x4 1/2	8 1/4	13

**Flax Packed Stuffing Boxes and Stern Bearings**  
WITH RECTANGULAR FLANGE

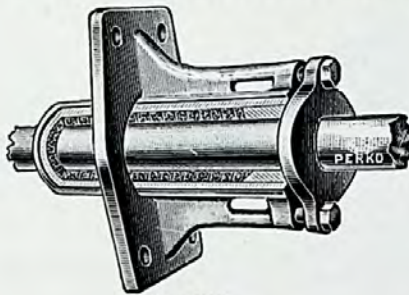


Fig. 811

Shaft Size Inches	Each	Size Flange Inches	Length Bearing Inches
1	\$12.00	5 3/4 x 3	5 1/4
1 1/8	15.00	6 x 3	5 1/2
1 1/4	18.00	6 3/4 x 3 1/2	5 3/4
1 3/8	19.00	7 x 3 7/8	5 3/4
1 1/2	26.00	7 1/2 x 4 1/4	6 1/2
1 3/4	36.00	8 1/2 x 4 3/4	6 1/2
2	46.00	9 1/2 x 5 1/4	8 1/8
2 1/4	70.00	12 x 6	11 1/8
2 1/2	87.00	13 1/4 x 6 3/8	12 1/4

**Packing Nuts and Locknuts**  
FOR STUFFING BOXES—CAST BRONZE



Fig. 73



Fig. 79

Shaft Size Inches	For Fig. 320		For Fig. 631		For Fig. 819	
	Fig. 73 Each	Fig. 79 Each	Fig. 73 Each	Fig. 79 Each	Fig. 73 Each	Fig. 79 Each
3/8	\$1.50	\$.60				
1/2	1.55	.65				
5/8	1.65	.70				
1	1.75	.75	3.00	1.25	3.50	1.50
1 1/8	1.80	.80	3.20	1.30	3.75	1.65
1 1/4	2.10	.90	3.50	1.50	4.00	1.70
1 3/8	2.50	1.10	3.80	1.50	4.50	1.75
1 1/2	3.00	1.25	4.50	1.50	5.00	1.75
1 3/4	3.75	1.75	5.00	2.00	6.00	2.25
2			6.00	2.25	6.50	2.50

**Iron Shaft Couplings**  
CAST IRON

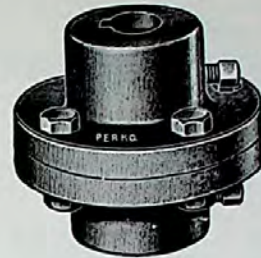


Fig. 327

No.	Each	For Diameter Shaft Inches	Diam. Flange In.	Lgth. Overall In.	Wt. Lbs.
0	\$4.75	5/8, 3/4	3	2 3/8	2 1/2
1	6.25	5/8, 3/4, 7/8, 1, 1 1/8	4	3 1/2	5 1/2
2	7.50	3/4, 7/8, 1, 1 1/8, 1 1/4, 1 3/8, 1 1/2	4 1/2	4 1/8	8
3	8.25	1 1/8, 1 1/4, 1 3/8, 1 1/2	5	4 3/4	10 3/4
14	12.50	1, 1 1/8, 1 1/4, 1 3/8, 1 1/2, 1 3/4, 2	6	6 1/2	19 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 - 7/8	1/8	1 3/8 - 1 1/2	3/8
1 - 1 1/8	1/4	1 3/8 - 1 3/4	1/2
1 1/4	3/8	1 7/8 - 2	1/2

**Bronze Shaft Couplings**  
CAST BRONZE

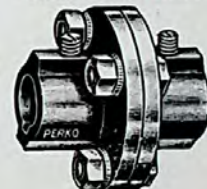


Fig. 389

Set screws, bolts and washers are all bronze.

Each	For Diameter Shaft Inches	Keyway Inches	Diam. Flange Inches	Length Overall Inches	Weight Pounds
\$6.00	5/8, 3/4, 7/8, 1	1/8	2 3/4	2 3/4	1 1/2

For divided sizes such as 3/4 inch one end, 1 inch the other end, add \$.50 each.

**Bronze Universal Joints**  
CAST BRONZE—PLAIN



Fig. 93

No.	Each	Bored for Rod Inches	Tapped for Pipe Inches	Extreme Length Inches	Weight Pounds
1	\$5.50	3/4	1/2	4 1/2	1
2	8.50	1	3/4	6	2 1/4

PLEASE SPECIFY WHETHER FOR ROD OR PIPE





## 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	\$8.00	5/8	9 3/8 x 2 1/2	15	10	3 3/4
1	8.00	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 5/8 or 3/4 inch shaft.

## Adjustable Shaft Logs

CAST BRONZE—EXTRA HEAVY

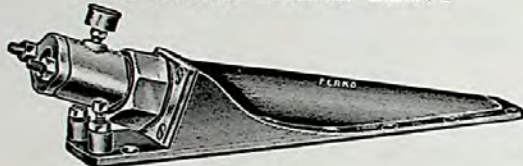


Fig. 627

Furnished complete with grease cup.

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	3/8	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.

Furnished complete with grease cup.

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	\$ 9.00	5/8	9x4	10	14	3 1/2
1	10.00	3/4	11x5	12 1/4	14	6
2	10.25	7/8	11x5	12 1/4	14	6
3	10.50	1	11x5	12 1/4	14	6

## 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	\$10.00	3/4	12x3 1/2	18	11	7
2	10.25	7/8	12x3 1/2	18	11	7
3	10.50	1	12x3 1/2	18	11	7
4	18.00	1 1/8	17x4 1/4	23 1/2	11	12
5	21.50	1 1/4	17x4 1/4	23 1/2	11	12
6	27.00	1 3/8	19x5	28	11	20
7	28.50	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	4.25	1.00	1.20	1 3/4	2 3/8	4
3	1	4.50	1.00	1.20	1 3/4	2 3/8	4
4	1 1/8	5.50	1.65	1.70	2 3/8	3	5
5	1 1/4	6.50	1.65	1.70	2 3/8	3	5
6	1 3/8	8.00	2.75	2.60	2 3/8	3 1/2	5
7	1 1/2	9.00	2.75	2.60	2 3/8	3 1/2	5

\*Size 0 also supplied for 5/8 inch shaft; same is used on Shaft Log Fig. 695.





### Adjustable Struts

ALL CAST BRONZE  
MARINE BABBITT BEARING

Side View

End View

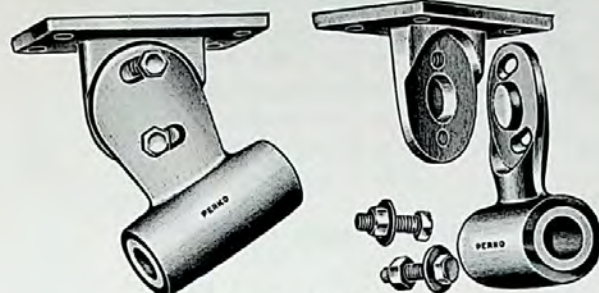


Fig. 628

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.

Size Shaft Inches	Width Flange Inches	Length Flange Inches	Length Bearing Inches	For Bolt Inches
3/4, 7/8, 1, 1 1/8	3	5 1/2	4 1/8	1 1/8
1 1/4, 1 3/8, 1 1/2	3 1/2	6 1/2	4 1/2	3/8

Lgth. Drop In.	Size Shaft Inches						
	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2
5	\$19.25	\$19.25	\$19.25	\$19.25	\$27.00	\$31.25	\$31.25
6	19.75	19.75	19.75	19.75	27.50	32.00	32.00
7	20.35	20.35	20.35	20.35	28.00	32.50	32.50
8	21.00	21.00	21.00	21.00	28.50	33.00	33.00
9	21.50	21.50	21.50	21.50	29.70	34.00	34.00
10	22.00	22.00	22.00	22.00	31.00	35.00	35.00
11	23.00	23.00	23.00	23.00	33.00	37.50	37.50
12				25.00	33.00	37.50	37.50

Specify Size Shaft and Length of Drop, When Ordering

### Adjustable Struts

FOR RUBBER OR BABBITT BEARINGS  
CAST BRONZE—EXTRA HEAVY

Size Shaft Inches	Width Flange Inches	Length Flange Inches	Length Bearing Inches
3/4	3	5 1/2	3
7/8	3	5 1/2	3 1/2
1	3	5 1/2	4
1 1/8	3	5 1/2	4 1/2
1 1/4	3 1/2	6 1/2	5
1 3/8	3 1/2	6 1/2	5 1/2
1 1/2	3 1/2	6 1/2	6



Fig. 1019

Prices below do not include bearing.

For bearings see Figs. 640 or 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	\$20.00	\$20.50	\$21.00	\$21.50	\$30.00	\$31.00	\$32.00
6	20.50	21.00	21.50	22.00	30.75	31.75	32.75
7	21.00	21.50	22.00	22.50	31.50	32.50	33.50
8	21.50	22.00	22.50	23.00	32.50	34.00	35.50
9			23.50	24.00	33.50	35.00	36.50
10			24.50	25.00	35.00	37.00	39.00
11					37.00	39.00	41.00
12							

Specify Size Shaft and Length of Drop, When Ordering

### New "Perko" Solid Struts

MANGANESE BRONZE—STREAMLINED  
WITH BABBITT BEARING



Fig. 633

Width Flange Inches	Length Flange Inches	Length Bearing Inches	Angle in Degrees
3 1/2	5 1/2	4	11

Length Drop Inches	Size Shaft, Inches			Weight Pounds
	3/4 Each	7/8 Each	1 Each	
5	\$14.50	\$14.50	\$14.50	6 1/2
6	15.50	15.50	15.50	7 1/2
7	16.50	16.50	16.50	8 1/4

### 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
\$6.00	3/8 or 3/4	3 1/2 x 2 1/4	2 1/4	2

### New "Perko" Babbitt Bearings

WITH BRONZE SLEEVE

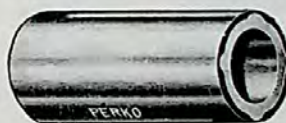


Fig. 640

The babbitt is molded into grooves in sleeve. Cannot turn with shaft. Easily installed in struts such as our Fig. 1019.

Diameter Shaft Inches	Each	Outside Diameter Inches	Length Inches
3/4	\$5.00	1 1/4	3
7/8	5.50	1 3/8	3 1/2
1	6.00	1 1/2	4
1 1/8	6.50	1 5/8	4 1/2
1 1/4	7.00	1 3/4	5
1 3/8	8.00	1 7/8	5 1/2
1 1/2	9.00	2	6



## B. F. GOODRICH CUTLESS RUBBER BEARINGS



Fig. 10 21

### 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

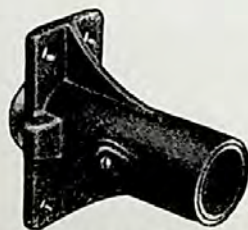
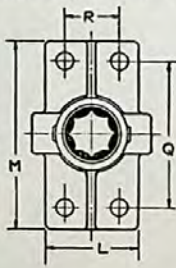
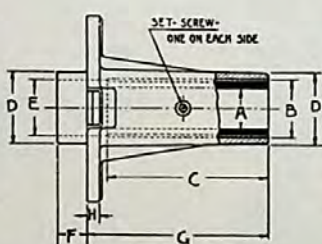
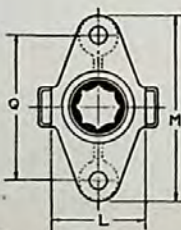
Code	A—Shaft Diameter	B—Outside Diameter	Standard Length	Shipping Weight, Lbs.	Price Each	Special Length Price per Lin. In.*	Code	A—Shaft Diameter	B—Outside Diameter	Standard Length	Shipping Weight, Lbs.	Price Each	Special Length Price per Lin. In.*	Code	A—Shaft Diameter	B—Outside Diameter	Standard Length	Shipping Weight, Lbs.	Price Each	Special Length Price per Lin. In.*
KALE.....	3/4"	1 1/4"	3"	3/4	\$6.70	2.49	KITEM.....	1 1/8"	2 5/8"	7 1/2"	3 1/4	\$22.90	13.67	NEPHEW....	3 3/8"	4 1/2"	14 1/2"	12 1/4	\$61.70	\$5.12
KATY.....	7/8"	1 3/8"	3 1/2"	3/4	7.60	2.49	KITEZ.....	1 1/8"	2 1/4"	7 1/2"	4	22.90	3.67	NEPTUNE..	3 3/4"	4 1/2"	15"	10 1/2	68.50	5.50
KATZ.....	1"	1 1/2"	3 3/4"	1	7.80	2.40	KITH.....	2"	2 5/8"	8"	3 1/2	24.60	3.72	NERVE....	3 3/4"	5"	17 1/2	15	68.50	5.50
KAYAK.....	1"	1 3/4"	4"	1	9.00	2.62	KNAVE.....	2"	3"	8"	4 1/2	24.60	3.72	NEST.....	3 3/4"	5 1/4"	15"	18	68.50	5.50
REFER.....	1"	1 3/8"	4"	1 1/4	9.00	2.62	KNIT.....	2 1/8"	2 1/4"	8 1/2"	4 1/2	26.50	3.72	NEWELL...3 3/8"	5 1/4"	15 1/2"	20	73.20	5.81	
KEEPER.....	1"	1 3/8"	4"	1 1/2	9.00	2.62	KNOB.....	2 1/8"	3 1/4"	8 1/2"	4 1/2	26.50	3.72	NIBBLE...4"	5"	16"	28	78.70	5.92	
KERSEY...1 1/8"	1 5/8"	4 1/2"	1 1/4	10.80	2.75	KNOLL...2 1/8"	2 1/4"	9"	4 1/2	28.60	3.78	NIBBLED...4"	5 1/4"	16"	29 1/2	78.70	5.92			
KERNY...1 1/8"	1 5/8"	4 1/2"	1 1/4	10.80	2.75	KORAN...2 1/8"	3 1/8"	9"	5	28.60	3.78	NIBBLING.4 1/8"	5 1/4"	16 1/2"	31	82.40	6.15			
KID.....1 1/8"	1 5/8"	4 1/2"	1 1/4	10.80	2.75	RUMISS...2 1/8"	3 3/8"	9"	5	28.60	3.78	NICETY...4 1/4"	5 1/2"	17"	29 1/2	85.60	6.15			
KIDNAP...1 1/4"	1 3/4"	5"	1 1/4	12.40	2.81	NABAS...2 3/8"	3 3/8"	9 1/2"	6	30.80	3.81	NICHE...4 3/8"	5 3/4"	17 1/2"	33 1/4	89.50	6.26			
KIDNEY...1 1/4"	2 1/8"	5"	2	12.40	2.81	NAKED...2 1/8"	3 1/4"	10"	5	31.80	3.87	NICK...4 3/8"	5 3/4"	18"	33 1/4	94.30	6.43			
KIN.....1 3/8"	2 1/8"	5 1/2"	2	13.70	2.99	NATION...2 1/8"	3 3/8"	10"	5	31.80	3.87	NIGGARD...4 1/2"	5 3/4"	18"	35	94.30	6.43			
KINCY...1 3/8"	2 1/8"	5 1/2"	2 1/4	13.70	2.99	NATISM...2 3/8"	3 3/8"	10 1/2"	5 1/4	34.70	4.02	NIGH...4 3/8"	5 3/4"	18 1/2"	39	102.90	7.10			
KINDLE...1 3/8"	2 3/8"	5 1/2"	2 1/2	13.70	2.99	NATIVE...2 3/8"	3 3/8"	11"	5 1/4	38.50	4.27	NIGHTLY...4 3/8"	5 3/4"	19 1/2"	43	110.80	7.43			
KINE.....1 3/8"	2 3/8"	6"	2	15.80	3.13	NATURE...2 3/4"	3 3/4"	11"	5 1/4	38.50	4.27	NIGHTLY...4 3/8"	5 3/4"	19 1/2"	43	110.80	7.43			
KIANO...1 3/8"	2 3/8"	6"	2 1/4	15.80	3.13	NAVAL...2 3/8"	3 3/4"	11 1/2"	6 1/4	39.90	4.35	NIGHT...5"	6 1/8"	20"	45	122.60	7.85			
KINKY...1 3/8"	2 3/8"	6 1/2"	2 1/4	18.40	3.40	NAVY...3"	3 3/4"	12"	8	42.40	4.40	NOBLE...5"	6 1/8"	20"	50 1/4	122.60	7.85			
KINSHIP...1 3/8"	2 3/8"	6 1/2"	3	18.40	3.40	NECK...3"	4"	12"	8 1/2	42.40	4.40	NOBODY...5"	7"	21"	80 1/4	136.10	8.30			
KIP.....1 3/8"	2 3/8"	7"	2 3/4	20.80	3.56	NECKING.3 1/4"	4 1/4"	12 1/2"	8 1/4	45.60	4.46	NOBUR...5 3/8"	7"	21 1/2"	75	142.60	8.50			
KITE.....1 3/8"	2 3/8"	7"	3 1/4	20.80	3.56	NECTAR...3 1/4"	4"	13"	9 1/4	49.00	4.63	NOMAD...5 1/2"	7"	22"	65	148.60	8.69			
						NEGATIVE.3 1/4"	4 1/4"	13"	10	49.00	4.63	NOMAR...5 1/2"	7"	22 1/2"	70	154.70	8.84			
						NEGLECT...3 3/8"	4 1/2"	13 1/2"	10 1/4	52.90	4.82	NONAGE...5 3/4"	7"	23"	62 1/4	161.30	8.98			
						NEGRO...3 1/4"	4 1/4"	14"	10	56.50	4.97	NOOK...6"	7 1/2"	24"	70	178.40	9.17			
						NEIGHBOR.3 1/4"	4 1/4"	14"	11 1/2	56.50	4.97									

\*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

Prices 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 bab-bitted bearings of this type. The E. 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. Sq. Base	Drilled for Bolts, Ins.	Pat. No. Oval Base	Drilled for Bolts, Ins.	Price Complete with Cutless Bearing
	A	B	D	E	F	G	L	M	Q	R					
3/4	1 1/4	1 3/4	1 1/4	1 1/2	1 1/2	3 1/2	2 1/2	4 1/2	3 1/2	1 1/4	B-1	3/4	B-3	3/4	\$13.40
7/8	1 1/2	1 3/4	1 1/2	1 3/4	1 3/4	4	2 3/4	4 3/4	3 3/4	1 1/2	B-2	7/8	B-4	7/8	14.60
1	1 3/4	2	1 1/2	1 3/4	1 3/4	4 1/2	2 1/2	5	3 3/4	1 3/4	C-1	1	C-0	1	16.30
1 1/4	1 3/4	2 1/4	1 3/4	1 3/4	1 3/4	5 1/2	2 3/4	5 1/2	4 1/4	1 1/2	C-2	1 1/4	C-10	1 1/4	18.90
1 1/2	2	2 1/2	1 3/4	1 3/4	1 3/4	5 3/4	3	6	4 1/2	1 3/4	C-3	1 1/2	C-11	1 1/2	22.80
1 3/4	2 1/4	2 1/2	2	1	6 1/4	6 1/2	5	6 1/2	5	1 3/4	C-4	1 3/4	C-12	1 3/4	25.00
1 3/4	2 1/4	2 1/2	2 1/4	1	6 1/4	6 1/2	5	6 1/2	5	1 3/4	C-5	1 3/4	C-13	1 3/4	33.00
1 3/4	2 1/4	2 1/2	2 1/4	1 1/4	7 1/4	7 1/2	4	8	6 1/2	2 1/4	C-6	1 3/4	C-14	1 3/4	40.40
2	2 3/4	3	2 1/4	1 1/4	8 1/4	8 1/2	4 1/2	9 1/4	7 1/2	2 3/4	C-7	2	C-15	2	53.60
2 1/4	3	3 1/4	3	1 1/4	10	10 1/2	5 1/4	10 1/2	8 1/2	3	C-8	2 1/4	C-16	2 1/4	66.00
2 1/2	3 1/4	4	3 1/4	1 1/2	11	11 1/2	5 3/4	11 1/2	9	3 1/4	E-20	2 1/2	.....	.....	95.00
2 3/4	3 3/4	4 1/2	3 3/4	1 3/4	12	12 1/2	6 1/4	12 1/2	9 1/2	3 3/4	E-21	2 3/4	.....	.....	114.00
3	4	4 1/2	3 3/4	2	13	14	7	14	10 1/2	4	E-22	3	.....	.....	132.00



## Flat Bearings

GRAY IRON — BABBITTED



Fig. 789

For Shaft Size Inches	Each	Dimensions of Base Inches	C. to C. Bolt Holes Inches	Diam Bolt Holes Inches	Weight Pounds
3/8	\$2.65	4 x 1 1/8	3 1/8	1/4	1
1/4	2.65	4 1/4 x 1 3/8	3 1/2	3/8	1 1/8
7/8	2.65	4 1/4 x 1 1/4	3 3/8	3/8	1 1/4
1	2.65	4 7/8 x 1 1/2	3 3/4	3/8	1 1/2
1 1/8	3.60	5 1/4 x 1 3/8	4 1/4	3/8	2 1/3
1 1/4	3.60	5 1/2 x 1 3/4	4 1/4	3/8	2 5/8
1 3/8	4.40	5 7/8 x 1 7/8	4 3/8	3/8	3 1/2
1 1/2	4.40	6 1/4 x 2	4 7/8	1/2	4 1/4
1 3/4	5.35	6 7/8 x 2 1/4	5 3/8	1/2	6
2	7.00	7 1/2 x 2 1/2	5 3/4	1/2	7 1/4

Larger and intermediate sizes supplied to order.

## Thrust Ball Bearings

Flat Race  
Bronze Retainers

Grooved Race  
Steel Retainers

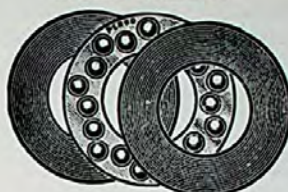


Fig. 786

Diameter Shaft Inches	Fig. 786 Each
5/8	\$2.50
3/4	3.00
7/8	3.20
1	3.30
1 1/8	3.40
1 1/4	3.60
1 3/8	4.20
1 1/2	4.50
1 3/4	4.75
2	5.50
2 1/4	6.00
2 1/2	7.75
	9.75

Fig. 942

Outside Diameter Inches	Fig. 942 Each	Thickness Inches
1 1/8	\$1.70	3/8
1 1/4	1.75	3/8
1 3/8	1.90	3/8
1 1/2	2.05	3/8
1 5/8	2.20	3/8
2	2.30	3/8
2 1/8	2.60	3/8
2 1/4	3.10	3/8
2 3/8	3.40	3/8
2 1/2	3.70	3/8
2 5/8	4.50	3/8
3	5.25	3/8
3 1/8	7.00	3/8

## Intermediate Shaft Bearings

BALL BEARING TYPE—SELF ALIGNING  
WITH GREASE RETAINING SEAL  
STANDARD DUTY

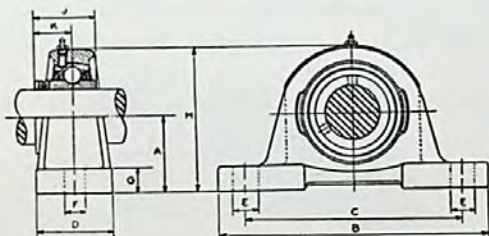


Fig. 790

For Shaft Size In.	Each	For Bolt In.	A In.	B In.	C In.	D In.	H In.	Shipping Wt. Lbs.
3/8	\$10.50	1/2	1 3/4	7	5 3/8	2	3 1/8	3 1/2
1	10.50	1/2	1 3/4	7	5 3/8	2	3 1/8	3 1/2
1 1/8	12.50	5/8	2	7 1/2	5 3/4	2	3 3/8	5
1 1/4	15.00	3/4	2 3/8	8 1/4	6 1/4	2 1/4	4 1/2	6 1/2
1 3/8	15.00	3/4	2 3/8	8 1/4	6 1/4	2 1/4	4 1/2	6 1/2
1 1/2	16.50	3/4	2 3/8	8 1/2	6 1/2	2 3/8	4 1/2	7 1/2
1 3/4	17.75	3/4	2 3/8	8 3/4	6 1/2	2 3/8	4 5/8	8
2	27.00	3/4	3 3/8	11 1/4	8 1/2	2 3/4	6	15
2 1/4	31.00	3/4	3 3/8	11 1/2	8 3/8	3	6	16
2 1/2	36.00	3/4	3 3/4	12 3/8	10	3 3/8	7 1/8	21

## 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 3/8
1	1.75	1 3/4
1 1/8	1.85	2 1/8
1 1/4	2.00	2 1/4
1 3/8	2.20	2 3/8
1 1/2	2.60	2 3/4
1 3/4	3.50	2 7/8
2	4.00	3 1/8
2 1/4	6.50	3 3/8
2 1/2	7.50	3 7/8

## Safety Shaft Collars

CAST SEMI STEEL—MACHINED



Fig. 787

Shaft Size Inches	Each	Outside Diameter Inches	Width Inches
3/8	\$.50	1 1/8	3/8
3/4	.55	1 1/4	3/4
7/8	.65	1 3/8	7/8
1	.75	1 1/2	1
1 1/8	1.00	2	1 1/8
1 1/4	1.10	2 1/8	1 1/4
1 3/8	1.40	2 1/4	1 3/8
1 1/2	1.40	2 3/8	1 1/2
1 3/4	2.50	3	1 3/4
2	2.65	3 3/8	1 3/4



## Seamless Flexible Steel Hose

FOR DIESEL ENGINE EXHAUST  
with American Standard Flanges

One Piece Construction — Gastight and Leakproof  
— Absorbs Vibration — Allows for Expansion and Contraction.



Fig. 448

Helically corrugated, seamless type flexible steel hose has no packing or joints. It is highly recommended and used as a flexible connection for exhaust and air-intake lines on all types of Diesel engine installations, to absorb vibration, and as an expansion joint. A long-lasting vibration absorber, it maintains flexibility at extremely high temperatures. Leakproof, it is especially suitable for conveying liquids and gases.

On marine installations, this hose is used between engine and exhaust piping. Connected generally by flanges to both members. It is sometimes connected by welded nipples, in which case the necessary nipples can be supplied.

This hose will last as long as the boat or engine.

Flanges are American Standard 150 series, either fixed or floating. Please specify. General procedure is to use one fixed and one floating flange as illustrated.

Inside Diam. Inches	Hose only Per Foot	Male Nipples Attached Per Pair	Flanges Attached Per Pair	Gauge of Steel Inches	Weight per Foot Pounds
2	\$4.60	\$13.50	\$38.50	.040	2½
2½	5.25	16.75	42.50	.040	3
3	6.20	20.00	46.50	.040	3½
3½	7.50	22.50	54.00	.040	4¼
4	8.75	26.00	60.00	.050	5½
5	10.75	31.00	72.00	.050	7
6	15.00	37.00	81.00	.057	11
8	21.00	50.00	105.00	.057	14

Can be supplied up to 36 inches I. D. Prices on application.

## Rubber Engine Mountings

OIL RESISTING SYNTHETIC RUBBER  
FOR MARINE ENGINE INSTALLATION

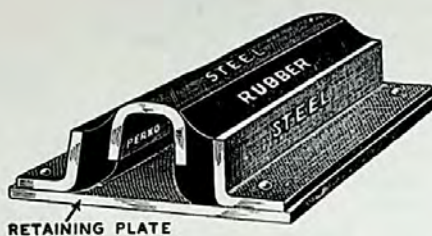


Fig. 455

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		
	4 7/8	1 1/2	1 3/8		
Length, Inches		2	3	4	5
With Plate, Each		\$3.60	\$4.75	\$5.80	\$6.80
Without Plate, Each		2.20	3.30	4.40	5.40
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

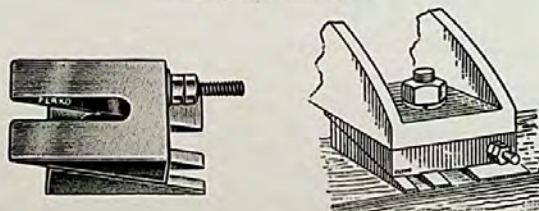


Fig. 1097

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	2½x2½	½	5/8	¾	¾



### 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	7½	12¾
3	32.00	28.50	25.00	9⅛	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

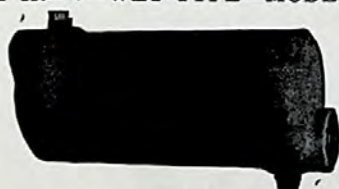


Fig. 755

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	2¾	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

### Brass Grease Cups



Fig. 961

No.	Each	Height Closed Inches	Outside Diam. Inches	Pipe Thread Inches	Capacity Ounces
1	\$ .40	1 ⅞	⅞	⅜	¼
2	.50	1¾	1 ⅞	⅜	½
3	.70	2	1 ⅞	⅜	¾



## Improved Gasoline Strainers

WITH "KWICK KLEAN" FILTER ELEMENTS  
CAST BRONZE HOUSING

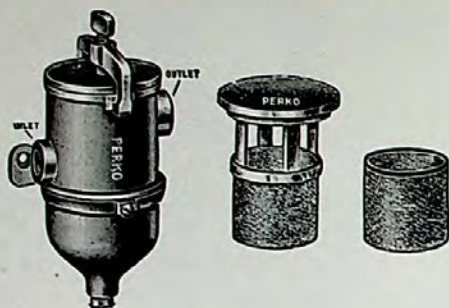


Fig. 299

The filter elements used are equivalent to 300 mesh screen cloth and are guaranteed to strain water from gasoline. They have a high flow rate, long life and are easy to clean. They can also be replaced in a few minutes by the removal of one nut. A soldering iron is not necessary.

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.	Complete Each	Spare Elements Each	Length Overall Inches	Diam. Inches	Tapped For Pipe Inches	Weight Pounds
1	\$ 8.25	\$1.00	5½	2¾	¼ or ⅜	3
1½	11.50	1.20	6¾	3⅜	⅝ or ½	5
2	15.25	1.40	7¾	3¾	½ or ⅝	7

## 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	\$15.50	½	7	4¾	5
2	25.50	¾	10¼	5¾	7½
3	25.50	1	10¼	5¾	7½
4	28.00	1¼	10¼	5¾	7½
5	49.00	1½	13¼	7	14½
6	68.50	2	19	9	22

Mounting brackets for bulkhead can be supplied as an extra.

## New "Perko" Gasoline Filters

WITH "KWICK KLEAN" FILTER ELEMENTS  
COPPER BOWL



Fig. 406

The filter element will strain water out of gasoline as it is equivalent to 300 mesh screen cloth. It is easy to clean, has high flow rate and long life.

The copper bowl and element can be quickly removed for cleaning, by a few turns of the knurled nut illustrated.

No.	Complete Each	Spare Elements Each	Tapped for Pipe Inches	Height Overall Inches	Width Overall Inches	Weight Ounces
1	\$3.00	\$ .85	½	4¼	2½	9½
2	3.00	.85	¼	4¼	2½	9½

## Gasoline Funnel

GALVANIZED—WITH STRAINER



Fig. 81

Made of galvanized sheet steel with No. 100 mesh bronze strainer.

No.	Each	Diam. Top Inches	Height Inches	Capacity Quarts	Weight Ounces
1	\$1.50	6¾	7	1	6
2	1.75	8	8½	2	8½





### 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	\$21.50	\$33.00
20	With Bell, as illustrated	25.75	39.00

### Triplex Motor Boat Whistle

ALL BRASS—NICKEL PLATED  
WITH CHAIN AND BUTTON RING

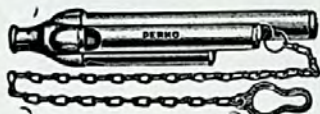


Fig. 168

Per Dozen	Length Overall Inches	Diameter Inches	Length Chain Inches	Weight Per Dozen Pounds
\$17.40	5 3/4	1 1/8	12	2 1/4

### Police or Signal Whistle

BRASS—NICKEL PLATED



Fig. 349

Per Dozen	Length Inches	Width Inches	Weight Per Dz. Ounces
\$8.00	2	3/4	17

### Remote Control Relays

CHROMIUM PLATED—6-12-32 VOLTS  
FOR HORNS, SEARCHLIGHTS, ETC.

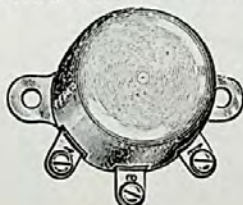


Fig. 273

Very necessary on low voltage battery hook ups to horns, searchlights, motors, etc., especially where the unit is some distance from battery. A relay eliminates line loss in such cases.

6 Volts Each	12 Volts Each	32 Volts Each	Height Inches	Width Inches	Weight Ounces
\$1.75	\$2.25	\$2.85	1 1/8	3 1/4	4 1/2

Specify voltage when ordering.

### Wrought Brass Fog Bells

PRESSED BELL METAL



Fig. 159

Diameter	6 in.	8 in.
Hgt. overall	4 in.	5 in.
Extension	7 3/8 in.	8 3/4 in.
Weight	1 lb.	2 1/2 lbs.

Diam. Inches	Plain Brass Each	Polished Brass Each	Chromium Plated Each
6	\$4.40	\$5.20	\$7.00
8	6.40	7.20	9.00
Wall Plates only	.75	.90	1.25
Arms only	1.40	1.60	2.20

### Cast Bronze Fog Bells

LIGHTWEIGHT



Fig. 581

Cast from bell metal. With removable bracket.

Diameter	6 in.	8 in.
Hgt. overall	4 1/8 in.	5 1/4 in.
Extension	6 1/2 in.	8 1/2 in.
Weight	3 lbs.	5 lbs.

Diam. Inches	Polished Each	Chromium Plated Each	Polished Each	Chromium Plated Each
6	\$10.00	\$14.50	\$1.10	\$1.65
8	13.75	18.00	1.10	1.65

MEDIUM WEIGHT



Fig. 420

Cast from high grade bell metal. Highly polished detachable bracket.

Diameter	6 in.	8 in.
Hgt. overall	5 in.	6 1/2 in.
Extension	6 3/4 in.	8 1/2 in.
Weight	4 lbs.	8 lbs.

Diam. Inches	Polished Each	Chromium Plated Each	Polished Each	Chromium Plated Each
6	\$13.00	\$17.50	\$1.40	\$1.90
8	21.00	25.00	1.90	2.75

HEAVY WEIGHT



Fig. 150

Cast from extra heavy bell metal. Complete with removable bracket.

Bottom Diam. Inches	Pol. Isled Each	Chrom. Plated Each	Pol. Isled Each	Chrom. Plated Each	Hgt. Inches	Wt. l.ba.
8	\$33.00	\$41.00	\$1.90	\$2.75	8	10
10	64.00	74.00	3.30	4.50	10 1/2	22
12	86.00	98.00	4.00	5.00	12	38





## New "Sea Echo" Horn

BRASS COVER AND PROJECTOR — BRASS SCREEN — CAST BRASS BASE — 6-12-32 OR 110 VOLTS — CHROMIUM PLATED

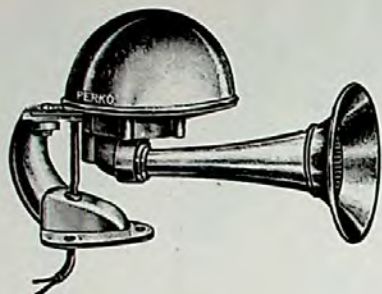


Fig. 590

A new very loud resonating horn with short projector and a brass chromium plated screen in the mouth of the projector.

This horn is designed and produced to supply a long felt need for a combination of loud, distinctive tone, short projector and good looks.

Complete with 10 feet of cable and push button.

Volts	Each	Length Overall Inches	Height Overall Inches	Weight Pounds
6	\$23.50	10¾	7½	4¼
12	24.00	10¾	7½	4¼
32	29.50	10¾	7½	4¼
110 D. C.	32.00	10¾	7½	4¼

## New "Sea-Tone" Horn

ALL BRASS — CHROMIUM PLATED — WATER-TIGHT — WEATHERPROOF — RESONATING VOLTAGES 6—12—32—110 D. C.

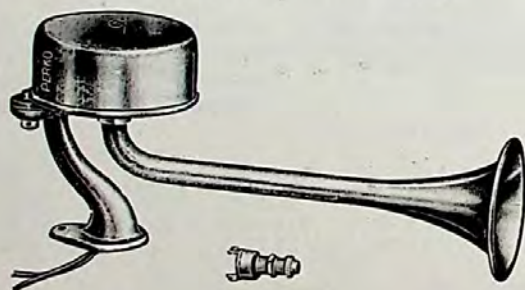


Fig. 576

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	\$45.00	19	8½	6½
12	49.50	19	8½	6½
32	49.50	19	8½	6½
110 D. C.	50.00	19	8½	6½

Packed in individual cartons.

## Brass Electric Horns

VIBRATORY TYPE — 6, 12 OR 32 VOLTS WATERTIGHT AND SPLASH PROOF POLISHED OR CHROMIUM PLATED COAST GUARD MODEL

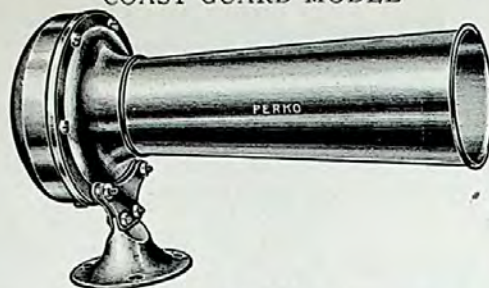


Fig. 75

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	Wt. Lbs.
	Pol. Brass Each	Chrom. Plated Each				
1	\$16.00	\$17.50	13	7¼	3⅞	4
2	22.50	25.00	15¾	8½	3⅞	6

For 12 volt add \$2.00.

For 32 volt add \$3.50.

Size No. 2 meets U. S. Coast Guard specification No. CR-23075.

## Blaster Horn

WITH PUSH BUTTON, CABLE AND RELAY

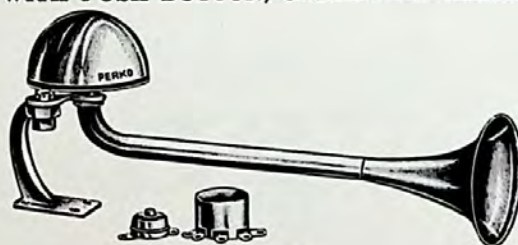


Fig. 989

No.	6 Volt		Length Inches	Width Inches	Height Inches	Wt. Lbs.
	Pol. Brass Each	Chrom. Plated Each				
1	\$20.00	\$22.50	22	5½	9	7

For 12 volt add \$2.00.  
For 32 volt add \$3.50.

## Super-Blaster Twin Horns

WITH PUSH BUTTON, CABLE AND RELAY

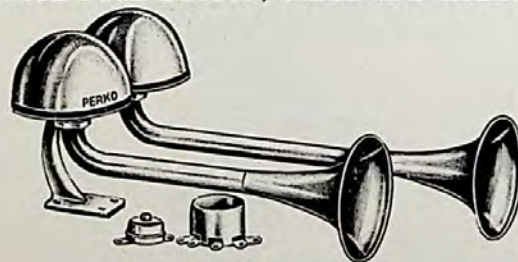


Fig. 990

No.	6 Volt		Length Inches	Width Inches	Height Inches	Wt. Lbs.
	Pol. Brass Per Pair	Chrom. Plated Per Pair				
1	\$32.50	\$35.00	22	11	9	11

For 12 Volt, add \$4.00 — For 32 Volt, add \$7.00

NOTE — PLEASE SPECIFY VOLTAGE, OTHERWISE 6 VOLT WILL BE SUPPLIED.





### New "Sea-Mite" Streamline Horn

STAINLESS STEEL DIAPHRAGM  
DIE CAST BODY AND BASE  
CHROMIUM PLATED  
6, 12 OR 32 VOLTS



Fig. 1120

#### A HORN — NOT A SIREN

Owners of runabouts and small cruisers have been searching for a horn of this design and size for years. Here it is.

This horn has exceptional tone quality for its size and is ideally suited for the above types of boats.

Note that the diaphragm is of stainless steel.

Furnished complete with 10 feet of cable and push button.

Each	Length Inches	Height Inches	Diameter Inches	Weight Pounds
\$24.00	7	6	4½	4¼

Specify voltage when ordering.

### Heavy Duty Marine Siren

DIE CAST WHITE METAL  
CHROMIUM PLATED — 6, 12 OR 32 VOLTS  
THE YACHTSMAN

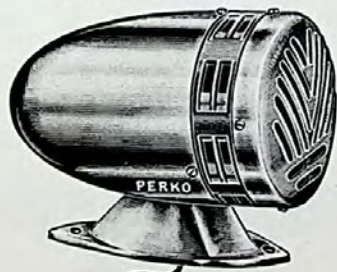


Fig. 1118

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	\$45.00	10½	7½	5¾	10

For 12 or 32 Volts Add \$2.50 Each

NOTE — PLEASE SPECIFY VOLTAGE, OTHERWISE 6 VOLT WILL BE SUPPLIED.

### Marine Sirens

DIE CAST WHITE METAL  
CHROMIUM PLATED — 6, 12 OR 32 VOLTS

#### THE SEA-MITE

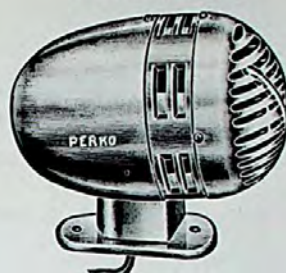


Fig. 1117

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	\$26.00	7	6	4½	4¼
12	26.50	7	6	4½	4¼
32	27.00	7	6	4½	4¼

### Combination Light and Siren

COMBINED  
FOR CLASS 1 MOTOR BOATS  
ALL BRASS — CHROMIUM PLATED  
6 OR 12 VOLTS

#### THE SIRO-LITE

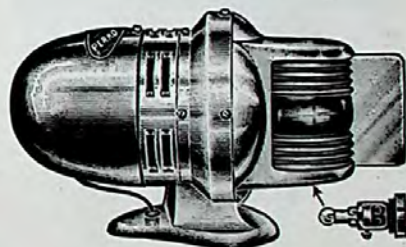


Fig. 597

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	\$45.00	11¾	6½	3 ⅜ x 3 ⅜	8½
12	46.00	11¾	6½	3 ⅜ x 3 ⅜	8½





## Boat Cleats

GALVANIZED IRON OR BRONZE



Fig. 544



Fig. 544-A

Fig. 544 is the ordinary style of cast open base cleats. Fig. 544-A is our improved style, of drop forged bronze (not cast). It has much greater strength, no sand holes. A finer finish. The base is solid, the top is flat to accommodate a larger screw or bolt, the ends are rounded, not sharp.

Fig. 544-A is supplied only in sizes 3, 4, 5 and 6 inch, bronze or chromium plated. The balance are supplied in the Fig. 544 style.

Length Inches	Cast Iron Each	Mall. Iron Each	Dull Bronze Each	Polished Bronze Each	Chrom. Plated Each	Approx. Weight Pounds
3			\$ .50	\$ .65	\$1.05	1/6
3 1/2	\$ .20	\$ .28				1/4
4	.22	.33	.70	.85	1.25	1/4
5	.33	.42	.80	.95	1.45	1/3
6	.40	.65	1.15	1.30	1.85	1/2
8	.77	1.25		1.95	2.65	1 1/8
10	1.55	2.00		2.85	4.15	2
12	2.15	2.75		4.20	5.50	3
14	2.75	4.50				5 1/2
18	4.75	7.50				12

Galvanized cleats supplied in cast unless otherwise specified.

## 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 1/2
5 1/2	1.95	2.45	1 3/8
6 1/2	2.10	2.65	1 3/4
8	2.75	3.60	1 1/4
10	5.00	6.00	2
12	6.75	8.25	3

## Sturdy Cleats

CAST BRONZE—HEAVY DUTY



Fig. 384

Length Inches	Pollo. Bronz. Each	Chromium Plated Each	For Rope Inches	Weight Pounds
4	\$1.50	\$2.25	1/4	1/2
5	1.75	2.50	3/8	3/4
6	2.50	3.25	1/2	1
8	4.75	5.75	3/4	1 1/4

## Fender Cleats

FORGED BRONZE



Fig. 583

Length Inches	Dull Finish Each	Polished Each	Chromium Plated Each	Size Base Inches	Weight Ounces
2 1/4	\$ .45	\$ .55	\$1.05	1 3/8 x 1	1 1/2

## Streamline Fender Cleat

DIE CAST, POLISHED OR CHROMIUM PLATED



Fig. 566

Length Inches	Polished Each	Chrom. Plated Each	Size Base Inches	For Diam. Rope Inches	Weight Ounces
3	\$ .60	\$ .80	2 3/8 x 1 3/8	3/8	2 1/2

## Awning Cleats

GALVANIZED MALLEABLE IRON



Fig. 927

Length Inches	Per 100 Pieces	Wt. Per 100 In Lbs.
4 1/2	\$ 8.50	4 3/8
6	12.00	8 3/4
8	19.00	13 3/4

## Ship Cleats

CAST IRON—HEAVY



Fig. 511

Length Inches	Galv. Each	Size of Base Inches	Holes for Diam. Bolts Inches	Weight Each Pounds
8	\$ 1.40	4 1/4 x 2 1/4	1/4	3
10	2.30	4 3/4 x 2 1/2	1/2	5 3/4
12	3.75	6 7/8 x 3	3/8	10
15	5.20	7 1/4 x 3 1/2	3/4	14
18	7.50	7 1/2 x 4	3/4	20 1/4
24	18.75	8 1/2 x 4 3/8	7/8	35
30	29.25	10 3/4 x 5 1/2	1	73
36	48.00	13 x 7 1/4	1 1/4	117





### Bow Chocks

GALVANIZED AND CAST BRONZE



Fig. 546

Length Inches	Galv. Iron Per Pair	Polished Bronze Per Pair	Chrom. Plated Per Pair	Width Inches	For Diam. Rope Inches	Wt. Per Pair Lbs.
3	\$ .50	\$1.85	\$2.85	3/8	1/4	1/2
4	.55	2.15	3.60	3/4	1/2	1/2
5	.70	2.85	4.90	7/8	3/4	1
6	1.45	4.50	7.00	1 1/8	7/8	1 1/2
8	2.25	6.50	9.25	1 1/4	1	3
10	3.40	11.00	15.50	1 3/4	1 1/4	5 3/4
12	8.75	18.25	22.00	2	1 1/4	11 3/4
15	20.00			3 1/2	1 3/4	40

### Straight Stern Chocks

GALVANIZED AND CAST BRONZE



Fig. 119

Length Inches	Galv. Iron Each	Polished Bronze Each	Chrom. Plated Each	Width Inches	For Diam. Rope Inches	Wt. Each Lbs.
4	\$ .28	\$1.20	\$1.90	7/8	1/2	1/3
5	.45	1.60	2.60	1	3/8	1/2
6	.70	2.30	3.50	1 1/4	3/4	3/8
8	1.45	3.60	5.00	1 5/8	1	1 1/2
10	1.70	5.75	7.80	1 7/8	1 1/4	2 1/2
12	3.60	9.75	12.00	2 3/8	1 5/8	7 1/2
15	8.00			3 3/8	1 3/4	20
18	11.00			3 1/2	2	31

### Skene Bow Chocks

CAST BRONZE



Fig. 160

Size No.	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Inches	Width Inches	Opening Inches	Weight Per 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 5/8	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	3/8	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 Bow Chocks

CAST BRONZE



Fig. 751

Length Inches	Pol. Bronze Per Pair	Chromium Plated Per Pair	For Diam. Rope Up to Inches	Thick-ness of Rail Inches	Height Inches	Weight Per Pair Pounds
6	\$7.65	\$11.25	1	1 1/4	2 1/4	2 3/4
7	11.00	14.25	1 1/4	1 1/2	2 3/4	4 1/4

### Skene Bulwark Stern Chocks

CAST BRONZE



Fig. 752

Length Inches	Pol. Bronze Each	Chromium Plated Each	For Diam. Rope Up to Inches	Thick-ness of Rail Inches	Height Inches	Weight Each Pounds
6	\$6.25	\$8.50	1 1/4	1 1/2	2 3/4	2





## Bulwark Bow Chocks

CAST BRONZE



Fig. 768

No.	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Inches	Width Overall Inches	Height Inches	Size of Rope Inches
1	\$14.50	\$17.50	10	1	1 7/8	1
2	18.00	22.00	11 1/4	1 1/4	2 1/4	1 1/4
3	22.00	27.50	11 1/4	1 1/2	2 1/2	1 1/2

## Comb. Bitt and Rope Deck Pipes

CAST BRONZE

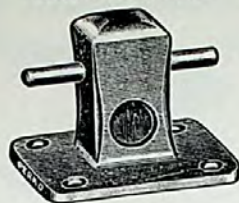


Fig. 431

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	4 1/2 x 4 1/2	3 1/2	3/4
2	13.50	16.50	6 x 6	5	1

## 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	\$9.75	\$11.50	9 1/4	1 3/8	2 5/8	1 1/2
2	11.00	13.75	11 1/2	1 3/4	3	1 3/4

## Mooring Bitts

CAST BRONZE

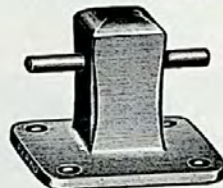


Fig. 608

No.	Size Base Inches	Height Inches	Weight Lbs.
1	3 x 3	2 1/2	7 7/8
2	4 1/2 x 4 1/2	3 1/2	1 1/8
3	6 x 6	5	5 5/8
4	7 x 7	6 1/2	12

No.	Polished Bronze Each	Chromium Plated Each
1	\$4.00	\$ 5.75
2	5.50	7.25
3	11.00	14.00
4	17.00	20.00

## 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	3/4 & 1	1 3/4	3 3/8	1 7/8
2	1 1/4	2 1/8	4 3/4	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

## Riding Bitts

GALVANIZED CAST IRON



Fig. 926

Size No.	Galv. Each	Height Inches	Size Base Inches	Bored for Bolt Diam. Inches	Weight Pounds
00	\$3.00	3 1/2	2 1/2 x 2 1/2	1/4	1 1/2
0	3.50	4 1/2	3 x 3	5/8	2 1/4
01	4.60	5 3/4	3 1/2 x 3 1/2	3/8	4
1	5.10	6 3/4	5 x 5	1/2	6
1 1/2	9.30	8 1/4	5 1/2 x 5 1/2	3/4	9
2	12.75	10	5 1/2 x 7 1/2	3/8	18



## Flush Flag Pole Socket

GALVANIZED CAST IRON—CAST BRONZE

Bow



Fig. 218

Stern



Fig. 219

Inside Diam. Inches	Galv. Each	Pol. Bronze Each	Chrom. Plated Each	Diam. Flange Inches	Depth Socket Inches	Wt. Ozs.
3/4	\$ .50	\$1.10	\$1.65	2	1 1/2	4 1/2
1	.55	1.25	1.85	2 3/8	1 3/4	6
1 1/4	.75	1.65	2.20	2 3/8	2	10
1 1/2	1.20	2.25	2.95	3 1/8	2 3/8	16

## Upright Flag Pole Socket

ROUND BASE  
CAST BRONZE

Bow



Fig. 220

Stern



Fig. 221

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

## Upright Flag Pole Socket

GALVANIZED CAST IRON  
SQUARE BASE

Bow



Fig. 570

Stern



Fig. 571

Inside Diam. Inches	Galv. Each	Height Inches	Size Base Inches	Weight Ounces
3/4	\$ .60	1 3/4	2 x 2	5 1/2
1	.80	2 1/4	2 1/4 x 2 1/4	11
1 1/4	1.25	2 3/4	2 3/4 x 2 3/4	13
1 1/2	1.75	3 1/2	3 x 4	24

## Outrigger Pole Sockets

BRASS



Fig. 1100

A well made heavily constructed socket of heavy brass with cast bronze brackets for mounting on rail or deck house.

No.	Pol. Brass Each	Chrom. Plated Each	Inside Diam. Inches	Extreme Length Inches	Width Bracket Inches	Wt. Lbs.
1	\$ 9.80	\$11.80	1 7/8	9 1/2	3 3/8	1 3/4
2	10.50	12.50	2 3/8	11 3/4	4	3

## Swivel Outrigger Pole Holders

IMPROVED TYPE—WITH ADJUSTING EYES  
HEAVY BRASS TUBING, BRONZE CASTINGS

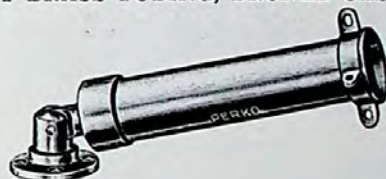


Fig. 414

Pole can be set at any desired angle, has swivel base plate and hinged socket.

Without Adjusting Eyes		With Adjusting Eyes		Length Socket Inches	Inside Diam. Socket Inches
Plain Each	Chromium Plated Each	Plain Each	Chromium Plated Each		
\$11.00	\$16.00	\$15.00	\$20.00	10	1 7/8

Diameter of base is 3 inches. Weight of each is 3 lbs.

## Anchor Lift Leaders

GALVANIZED MALLEABLE IRON



Fig. 483

For attaching to bow of boat. The sheave projects over the stem. These are very handy for raising or dropping anchor.

Each	For Diam. Rope Inches	Size Sheave Inches	Length Overall Inches	Length Plate Inches	Weight Pounds
\$1.35	3/8	2 x 1/2	7 1/2	4 1/2	1 1/4





**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	\$ .65	\$ .45	\$ .30	1 3/4	1 1/8
1	.70	.50	.30	2	1 1/4
2	1.00	.70	.45	2 1/4	1 3/4

**Davis Pattern Rowlocks**

GALVANIZED MALLEABLE IRON OR BRONZE

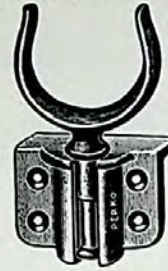


Fig. 641

Size No.	Galv. Per Pair	Plain Bronze Per Pair	Polished Bronze Per Pair	Chromium Plated Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$1.95				1 3/4	2
1	2.00	\$3.00	\$5.30	\$7.80	2	2
2	3.00				2 1/4	2 3/4

**Standard Socket Rowlocks**  
GALVANIZED MALLEABLE IRON



Fig. 639

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$1.00	\$ .75	\$ .35	1 3/4	1 1/8
1	1.00	.75	.35	2	1 1/4
2	1.60	1.25	.50	2 1/4	1 3/4
3	2.45	1.90	.70	2 1/2	2 5/8

**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 Galv.	\$1.35	\$ .75	\$ .70	1 3/4	1 3/8
1 Galv.	1.35	.75	.70	2	1 3/4
1 Pl. Bronze	2.95	1.85	1.20	2	1 3/4
1 Pol. Bronze	4.30	2.65	1.70	2	1 3/4
1 Chrome Pltd.	6.30	3.90	2.50	2	1 3/4

**North River Rowlocks**

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 643



Fig. 644

Fig.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
643 Galv.	\$1.35	\$1.10	\$ .35	2 1/8	1 1/2
644 Galv.	1.65	1.10	.70	2 1/8	1 1/2
643 Pl. Bronze	2.10	1.55	.65	2 1/8	1 1/2
644 Pl. Bronze	2.60	1.55	1.20	2 1/8	1 1/2
643 Pol. Bronze	3.95	2.85	1.20	2 1/8	1 1/2
644 Pol. Bronze	4.40	2.85	1.70	2 1/8	1 1/2
643 Chrom. Pltd.	5.80	4.10	1.90	2 1/8	1 1/2
644 Chrom. Pltd.	6.40	4.10	2.50	2 1/8	1 1/2

**North River Rowlocks**

WITH FANCY SIDE PLATE  
GALVANIZED MALLEABLE IRON OR BRONZE

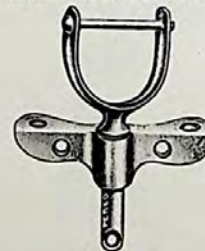


Fig. 652

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
1 Galv.	\$2.00	\$1.10	\$1.00	2 1/8	1 1/2
1 Pl. Bronze	2.75	1.55	1.30	2 1/8	1 1/2
1 Pol. Bronze	5.20	2.85	2.40	2 1/8	1 1/2
1 Chrome Pltd.	7.50	4.10	3.50	2 1/8	1 1/2

NOTE—BRASS SAFETY CHAIN FOR ROWLOCKS, \$.30 PER PAIR.





## 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
0 Galv.	\$1.70	\$.85	\$1.00	1 3/4	1 1/4
1 Galv.	1.70	.85	1.00	2	1 1/2
0 Pl. Bronze	2.60	1.50	1.25	1 3/4	1 1/4
1 Pl. Bronze	2.70	1.55	1.30	2	1 1/2
0 Pol. Bronze	4.20	2.30	2.30	1 3/4	1 1/4
1 Pol. Bronze	4.40	2.40	2.40	2	1 1/2
0 Chrome Pltd.	6.50	3.55	3.40	1 3/4	1 1/4
1 Chrome Pltd.	6.70	3.65	3.50	2	1 1/2

## Round Socket Rowlocks

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 642

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Inside Diam. Inches	Weight Per Pair Pounds
0 Galv.	\$1.00	\$.85	\$.35	2	1 1/8
1 Galv.	1.05	.90	.35	2 1/4	1 1/4
2 Galv.	1.55	1.10	.50	2 1/2	1 1/2
1 Pl. Bronze	2.15	1.60	.65	2 1/4	1 1/4
1 Pol. Bronze	3.75	2.75	1.20	2 1/4	1 1/4
1 Chrome Pltd.	6.00	4.25	1.90	2 1/4	1 1/4

## Boston Socket Rowlocks

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 545

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0 Galv.	\$1.00	\$.85	\$.35	1 3/4	7/8
1 Galv.	1.00	.85	.35	2	1
0 Pl. Bronze	1.95	1.50	.65	1 3/4	7/8
1 Pl. Bronze	2.00	1.55	.65	2	1
0 Pol. Bronze	3.30	2.30	1.20	1 3/4	7/8
1 Pol. Bronze	3.40	2.40	1.20	2	1
0 Chrome Pltd.	5.30	3.55	1.90	1 3/4	7/8
1 Chrome Pltd.	5.40	3.65	1.90	2	1

## Oar Leathers and Buttons

RUSSET LEATHER



Fig. 233

A high grade russet leather and button.

	Per Pair
Complete, Leathers and Buttons.....	\$1.45
Leathers Only—7x6 1/2 Inches.....	1.10
Buttons Only—1/2x13 Inches.....	.40

## 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.....	\$ .50
Fig. 788 Paddle Tips—Each.....	.25

## New Improved Dock Roller

FOR SMALL BOATS  
HARD WOOD ROLLER—CAST BRONZE PARTS  
ROLLER MAHOGANY STAINED AND VARNISHED



Fig. 475

An effective and simple means of rolling a canoe or boat from the water to the dock without damage. End posts are cast bronze.

Each	Diameter Roller Inches	Length Roller Inches	Height Overall Inches	Weight Pounds
\$16.50	2 3/4	24	3 1/2	5





## Bow Plates

CAST BRONZE



Fig. 181

	Polished Bronze Each	Chromium Plated Each	Size Plate Inches	Diam. Eye Inches	Weight Ounces
	\$1.90	\$3.00	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	\$4.40	\$5.50	3 1/4	4 1/4	Up to 3/8
2	5.25	6.60	3 3/4	4 3/4	Up to 1

## Bow Eyes

CAST BRONZE



Fig. 303

No.	Metal in Eye inches	Length of Straps Inches	Extreme Length Inches	Inside Diam. Eye Inches	Wt. Ozs.
1	3/8	1 3/4	3	3/4	3 1/2
2	1/2	2 3/8	3 3/8	3/8	5

No.	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
1	\$.65	\$1.10	\$1.60
2	.85	1.40	2.00

## Bow Rings

CAST MANGANESE BRONZE



Fig. 238

For towing or mooring small boats. Points under shoulder prevent turning or twisting of eye.

	Plain Bronze Each	Pol. Bronze Each	Chrom. Plated Each	I. D. Eye Inches	Lgth. Shank Inches	Diam. Shank Inches	Wt. Ozs.
	\$.85	\$1.40	\$1.75	1	3 1/8	3/8	7

## Ring on Plate

GALVANIZED DROP FORGED STEEL



Fig. 607

No.	Galvanized Each	Size Ring Inches	Size Plate Inches	Weight Per 100 Pounds
1	\$.95	1 1/2 x 1 1/2	2 x 2 x 1/4	33
2	1.10	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	\$1.60	\$2.30	2 3/4	1 1/2	1 1/8 x 1 1/4
2	1.85	2.60	3 1/4	1 3/8	1 1/2 x 1 1/2

## Ring and Deck Strap

CAST BRONZE

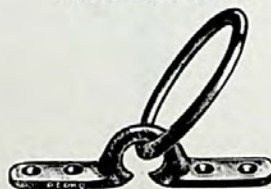


Fig. 183

	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Size Ring Inches	Length Strap Inches	Width Strap Inches
	\$.80	\$1.35	\$2.00	3 1/2 x 1 1/2	3 1/2	3/8

Straps only, see Fig. 882.

## Rings with Straps

GALVANIZED MALLEABLE IRON OR CAST BRONZE—HEAVY PATTERN



Fig. 1020

Size No.	Galv. Each	Plain Bronze Each	Pol. Bronze Each	Chrom. Plated Each	Size Ring Inches	Size Strap Inches
1	\$.65	\$.80	\$1.35	\$2.00	1 1/2 x 1 1/2	4 1/4 x 3/4
2	.80				1 3/8 x 1 3/4	4 1/8 x 3/4



## Bow Lifting Handle

CAST BRONZE

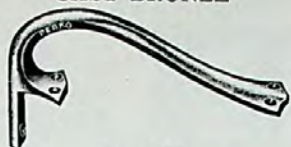


Fig. 363

A strong good looking handle for small boats, with integral stem band for appearance and additional lifting ability.

Pol. Bronze Each	Chromium Plated Each	Length Overall Inches	Height Above Deck Inches	Length Stem Band Inches	Wt. Ozs.
\$2.40	\$3.25	6½	2	1½	9

## New Streamline Hatch Handle

CAST BRONZE  
WITH MACHINE SCREWS AND WASHERS



Fig. 360

Designed for the hatch cover of a good looking run-about. Note that it is fastened through the under side of the hatch.

Polished Bronze Each	Chromium Plated Each	Length Overall Inches	Height Overall Inches	Size Opening Inches	Weight Ounces
\$2.00	\$2.75	5⅞	1½	3⅜x1	5½

## Lifting Handle

FOR BOW OR TRANSOM  
CAST BRONZE



Fig. 186

Length Overall Inches	Height Inches	Width Base Inches	Size Opening Inches	Weight Oz.
6⅞	2	1¼	3¾x1½	12

Polished Bronze Each	Chromium Plated Each
\$2.00	\$2.75

## New Hatch or Lifting Handle

GALVANIZED MALLEABLE IRON



Fig. 361

A strong sturdy handle at a moderate price.

Each	Length Overall Inches	Height Overall Inches	Size Opening Inches	Weight Ounces
\$ .70	6½	1⅝	3¼x1¼	8

## Outboard Motor Transom Plates

CAST BRONZE—PLAIN



Fig. 814

Furnished complete with tanned leather inserts.

No.	Polished Bronze Each	Chromium Plated Each	Length Overall Inches	Length Inside Inches	Weight Ounces	Plain Per Pair	Inside Diam. Inches	Outside Diam. Inches	Extreme Thickness Inches	Weight Per Pair Ounces
1	\$ .70	\$ .90	4¼	2⅝	2	\$1.50	1¼	3	⅞	6
2	1.05	1.50	5¾	3¾	4					

## Lifting Handles

FOR TRANSOM  
CAST BRONZE

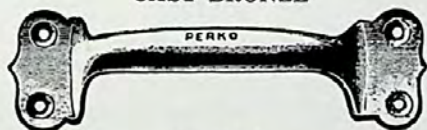


Fig. 775

## Hatch or Lifting Handle

CAST BRONZE



Fig. 185

Polished Bronze Each	Chrom. Plated Each	Length Overall Inches	Height Overall Inches	Size Opening Inches	Weight Ounces
\$1.50	\$2.25	5	1⅞	3¼x⅞	6

## Aluminum Racing Fin

CAST SILICON ALUMINUM



Fig. 189

Drilled and countersunk for installing.

Each	Length Overall Inches	Depth Blade Inches	Size Flange Inches	Weight Lbs.
\$4.00	9¼	5	2⅜x9¼	1





## New Improved Lifting Ring

WITH LOOSE DECK FLANGE  
CAST BRONZE



Fig. 412

A simple but worthwhile improvement is the loose deck flange. This eliminates all strain or pull on deck when lifting the boat. Threaded for 5/8 inch rod.

Polished Bronze Each	Chromium Plated Each	I. D. Eye Inches	Stock in Eye Inches	Diam. Flange Inches	Weight Ounces
\$4.50	\$5.50	1 3/8	1 1/8	2	10

## Standard Lifting Ring

WITH INTEGRAL DECK FLANGE  
CAST BRONZE



Fig. 415

Threaded for 5/8 inch rod.

Polished Bronze Each	Chromium Plated Each	I. D. Eye Inches	Stock in Eye Inches	Size Flange Inches	Weight Ounces
\$4.25	\$5.25	1 3/8	1/2	3x2 1/4	12 1/2

## Keel Plates

FOR ABOVE LIFTING RINGS  
CAST BRONZE



Fig. 446

For bolting to inside of keel and connecting to lifting ring by 5/8 inch tie rod.

Plain Bronze Each	Size Base Inches	Height Inches	Threaded for Rod Inches	Weight Oz.
\$1.40	3x1 3/8	1 1/2	3/8	7

## 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	\$ .40	\$ .70	\$1.00	6 1/2
3	.40	.70	1.00	24 1/4
4	1.00	1.50	2.00	36

GOthic PATTERN



Fig. 313

Height Inches	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Weight Per 100 in Lbs.
3	\$ .40	\$ .70	\$1.00	18

## 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	\$9.50	3 1/4
16	6.00	2 1/4	11	11.00	3 1/2
15	6.00	2 1/2	10	13.00	3 3/4
14 1/2	6.60	2 1/2	9	16.00	4
14	6.60	2 3/4			
13	7.20	3			

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

## Sail Makers Palms

HIDE MOUNTED



Fig. 411

No.	Description	Right Hand Per Doz.	Left Hand Per Doz.
2	Seaming—Half Hide	\$ 9.50	\$10.00
5	Seaming—Half Hide—Adjustable Buckle	17.00	17.50
6	Roping—Half Hide	16.00	16.50
7	Seaming—Heavy Hide—Adjustable Buckle	28.00	28.50
10	Seaming—U. S. Navy Type—Full Hide	31.00	31.50
11	Roping—U. S. Navy Type—Full Hide	34.00	34.50





### Boat Hooks

GALVANIZED MALLEABLE IRON OR BRONZE  
SHARP POINTS



Fig. 223

Size No.	Galvanized Each	For Diam. Pole Inches	Extreme Length Inches	Weight Ounces
0	\$1.00	1	7 1/4	8
1	1.25	1 1/4	8 1/4	12
2	1.65	1 1/2	9 3/8	16
3	2.50	2	9 3/4	28

BALL POINTS

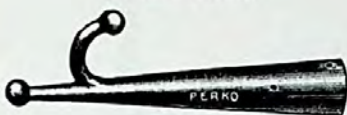


Fig. 224

Size No.	Galvanized Each	Polished Bronze Each	Chromium Plated Each	For Diam. Pole Inches	Extreme Length Inches	Wt. Ozs.
3 1/2	\$1.10	\$2.25	\$3.75	1	7 3/8	9
4	1.30	2.40	4.00	1 1/4	8 1/4	12
5	1.65	3.20	4.75	1 1/2	9 3/8	18
6	2.50			2	9 1/2	28

### Boat Hook Holders

SPRING BRASS

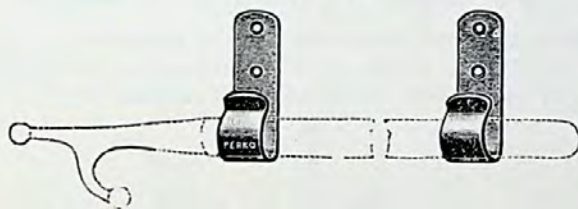


Fig. 490

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
\$ .75	\$1.10	3 1/2	1	1 1/2

### "Yacht" Ash Tray

DIE CAST ZAMAC METAL (Zinc and Aluminum)  
CHROMIUM PLATED

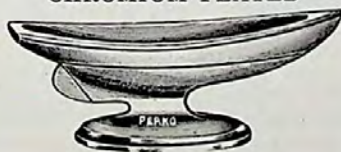


Fig. 378

A very attractive nautical ash tray for a boat, yacht club or home.

Each	Length Overall Inches	Width Inches	Weight Ounces
\$3.25	5 3/4	1 3/4	12

### New Gas Tank Caps

WITH DECK FLANGE AND SAFETY CHAIN  
CAST BRONZE



Fig. 520

Unusually attractive, will enhance the appearance of any boat, particularly a well finished runabout. Both parts are as shallow as practicable to bring the cap close to the deck.

Length of chain is 15 inches.

No.	Polished Bronze Each	Chromium Plated Each	Threaded for Pipe Inches	Height Overall Inches	Diam. Deck Flange Inches	Weight Pounds
1	\$4.50	\$5.50	1 1/2	1 3/8	3 1/4	1
2	5.00	6.00	2	1 3/8	4	1 1/4

### Fender Hooks

GALV. MALLEABLE IRON OR FORGED BRONZE



Fig. 547

No.	Galv.	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	For Rope Diam. Inches	Size Plate Inches
1	\$.20	\$.30	\$.50	\$.90	1/8	1 3/8 x 1 1/4
2	.60	.60	.95	1.50	1/2	2 1/4 x 1 3/4

Note—Bronze fender hooks in both sizes are forged bronze, not cast.

### 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
\$1.25	\$2.25	\$2.75	3	4 1/2	1/2



## Windshield Brackets

FOR RUNABOUTS & OUTBOARD MOTOR BOATS  
CAST BRONZE OR DIE CAST ZAMAC METAL

All grooved for  $\frac{1}{4}$  inch glass, end brackets beveled to match the crown of most decks. All center brackets are two piece for quick assembly and easier installation. All brackets are open at the top.

CAST BRONZE—50 DEGREE ANGLE

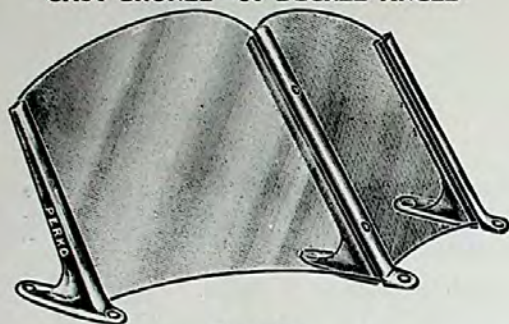


Fig. 665

Polished Bronze Per Set	Chromium Plated Per Set	Height Center Bracket Inches	Height End Brackets Inches	Length Base Inches	Wt. Per Set Lbs.
\$17.50	\$22.50	8 $\frac{3}{4}$	7	6	4 $\frac{1}{2}$

ZAMAC METAL (Zinc and Aluminum)

50 DEGREE ANGLE

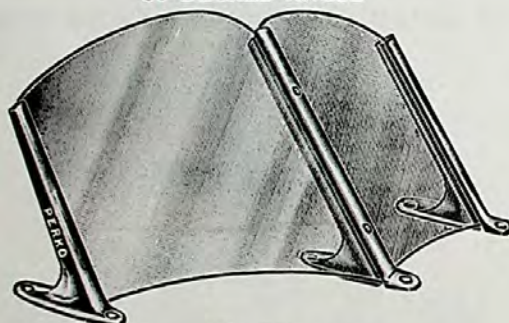


Fig. 750

Chromium Plated Each	Height Center Bracket Inches	Height End Brackets Each	Length Base Inches	Weight Per Set Pounds
\$12.50	8 $\frac{3}{4}$	7	6	4

CAST BRONZE—60 DEGREE ANGLE

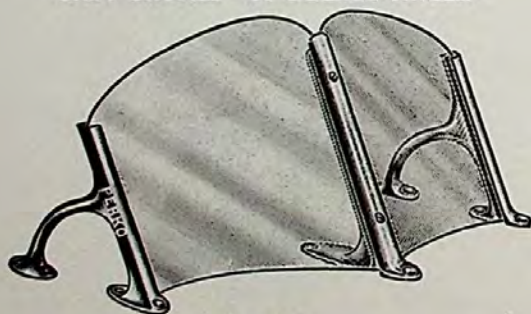


Fig. 930

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	9 $\frac{1}{4}$	6 $\frac{5}{8}$	10	5

Note—Prices do not include glass or rubber insulation.

## Improved Windshield Cleaners

ELECTRIC—6 OR 12 VOLTS  
BRASS MOTOR COVER—STAINLESS STEEL  
ARM AND SHAFT—CHROMIUM PLATED

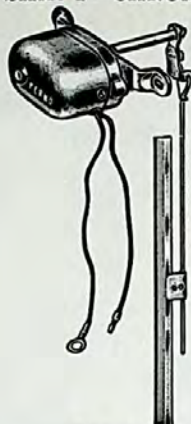


Fig. 395

Inside mounting, for swing out windshields. 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
\$14.00	\$16.00	6	11	2 $\frac{1}{2}$	1 $\frac{1}{4}$

Supplied for outside mounting to order. Prices same as above.

## New Hand Windshield Cleaner

WITH EXTENSIBLE ARM—10 OR 12 INCH BLADE  
STAINLESS STEEL ARM AND BLADE HOLDER  
OTHER PARTS, BRONZE, CHROMIUM PLATED



Fig. 533

Rustproof—Leakproof

Nothing to get out of order, operates very smoothly by a flip of the wrist. The improved spring tension of the arm holds blade firmly against the glass.

The arm is extensible from 9 to 12 inches, spring tension is adjustable for best wiping pressure.

Chromium Plated Each	*Length Overall Inches	Diam. Shaft Inches	Length Handle Inches	Weight Ounces
\$6.75	15 to 18	$\frac{3}{8}$	2 $\frac{3}{8}$	8

\*Length with 12 inch blade.

Note—If 10 inch blade is preferred, please specify.



## Windshield Adjusters

CAST BRONZE

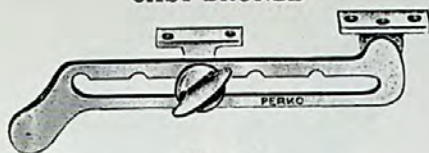


Fig. 82

No.	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Overall Inches	Length Adjustment Inches
1	\$8.50	\$11.50	6½	5
2	10.00	12.75	9	7
3	14.30	17.50	12	9½

Note—When ordering ½ pair, specify whether for right or left side.

## Non Skid Step Plates

WITH MOULDED BLACK RUBBER STEP PADS  
CAST BRONZE—CHROMIUM PLATED



Fig. 1043

No.	Complete Each	Frames Only Each	Extreme Dimensions Inches	Weight Pounds
1	\$5.50	\$4.25	8½x3½	¾
2	7.00	5.50	11½x5½	1¼

## Rubber Insulation for Windshields



Fig. 667



Fig. 668

Live moulded rubber for glass ¼ inch thick.

Fig. 667—For bottom of windshields—per foot.....\$ .30

Fig. 668—For windshield brackets—per foot..... .20

Fig. 667—Supplied only in 11 ft. lengths.

Fig. 668—Supplied in lengths of 20 feet or longer.

## Black Rubber Pads Only



Fig. 1050

No.	Each	Length Inches	Width Inches	Thickness Inches	Weight Ounces
1	\$1.40	8	2½	⅝	3¼
2	1.70	11	5	⅝	8¼

## Utility Rubber Step Plates

HEAVY CORRUGATED BLACK RUBBER WITH  
BRASS, CHROMIUM PLATED FRAME  
WITH OR WITHOUT NAME OF BOAT



Fig. 1039



Fig. 1044

No.	Fig. 1044 Complete Each	Extreme Dimensions Inches	Thickness Inches	Weight Pounds
3	\$3.50	8½x3½	¼	½
4	4.25	10 x4	¼	¾
5	5.75	13 x5	¼	1
6	7.50	17 x6	¼	1½
7	8.50	18 x8	¼	2

Fig. 1039 with name of boat inlaid. Add \$.90 to above prices for each letter, i.e., \$4.50 extra for a five letter word. Each letter requires at least 2 inches of space.

## Special Shapes

### Rubber Step Plates and Pads

HEAVY CORRUGATED BLACK OR MAROON  
RUBBER WITH BRASS CHROMIUM PLATED  
FRAME



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.

Note—Figs. 1039, 1044 and 1057 are supplied with chromium plated screws.



## Rope Swimming Ladders

WITH ROUND WOOD RUNGS



Of  $\frac{3}{8}$  inch best grade manila 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	\$6.00
3 rung	7.25
4 rung	9.00
5 rung	10.50
6 rung	12.50

Additional rungs add \$1.90 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.

Of  $\frac{3}{8}$  inch best grade manila rope with ash steps, varnished.

Furnished complete with lanyards 6 feet long for making fast on board.

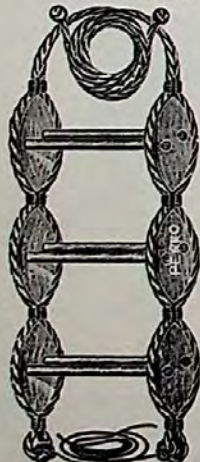
Ladders	Each
2 step	\$9.75
3 step	12.00
4 step	14.50
5 step	17.00
6 step	20.00

Additional steps add \$2.75 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.

Of first grade  $\frac{3}{8}$  inch manila 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	\$16.00
3 step	20.00
4 step	26.00
5 step	31.00
6 step	36.50

Additional steps add \$5.75 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	$1\frac{3}{4}$	12
Plain Bronze Per Set	Polished Bronze Per Set	Chromium Plated Per Set	
\$2.50	\$4.00	\$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	$2\frac{1}{2} \times 3\frac{3}{8}$	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	$3\frac{3}{4}$	$3\frac{1}{4} \times 2$	4
Complete		Plates Only	
Polished Bronze Per Set	Chromium Plated Per Set	Polished Bronze Per Pair	Chromium Plated Per Pair
\$10.50	\$14.50	\$2.50	\$3.50





### Folding Boarding Ladder

MAHOGANY WITH CAST BRONZE FITTINGS  
OPENS FROM 3 STEPS TO 6 STEPS

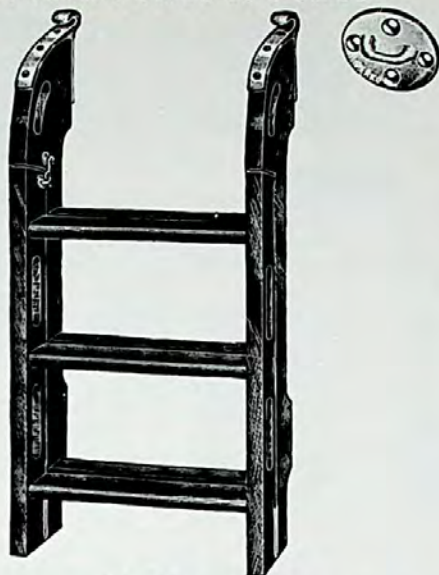


Fig. 558

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
\$44.50	\$50.00	51	30	15	12½

#### SPARE PARTS

	Polished Bronze Per Pair	Chromium Plated Per Pair
Hanging Plates	\$3.00	\$4.25
Hooks	7.50	8.75
Hinges	6.25	7.50
Cabin Door Hooks	.50	.85

### DeLuxe Folding Boarding Ladder

Fig. 560

This is our Fig. 558 ladder refined by the addition of black corrugated rubber on each step, polished brass or chromium plated nosings on each of the first three steps, and white rubber bumpers on portion of ladder which rests against the hull.

With Polished Bronze Fittings Each	With Chromium Plated Fittings Each
\$52.50	\$58.00

### Sword Fish Darts PLAIN CAST BRONZE



Fig. 805

Each	Length Inches	Weight Per 100 In Pounds
\$ .55	5	31

### 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
\$95.00	\$105.00	18	19x22	7	45

### Folding Stools

VARNISHED SEAT—CAST BRONZE BRACKET



Fig. 1009

No.	Each	Diam. Seat Inches	Projection Inches	Length Bulkhead Bracket Inches	Weight Pounds
1	\$12.00	12	12½	8¼	5¼
2	14.75	14	14½	11¼	8

### Dart Shank

IRON SHANK—CAST BRONZE SOCKET



Fig. 655

Length overall, 24 inches; Weight, 1¼ pounds.  
Each \$2.25





## New Streamline Grab Rail Posts

FOR 1 INCH TUBING—CAST BRONZE



Fig. 413

Notice that the tubing does not pass through the post but fits snug over an integral projecting part of post hence the post and tubing when assembled provides a smooth streamline unit. No unsightly bulges.

End Posts Only		Height Overall Inches	Dimensions Base Inches	Weight Each Ounces
Polished Bronze Each	Chromium Plated Each			
\$3.00	\$4.25	2 1/4	3x2	10

Brass tubing for above, polished, \$.75 for each 6 inches. Chromium plated, \$1.00 for each 6 inches or fraction thereof.

Center posts for above. Polished bronze, \$4.00 each. Chromium plated, \$5.25 each.

## Grab Rails

CAST BRONZE POSTS—BRASS TUBING

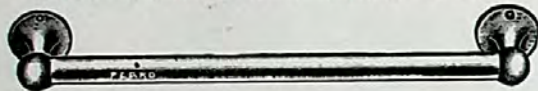


Fig. 379

Length Between Posts Inches	Diameter of Tubing			
	1 Inch		1 1/8 Inch	
	Polished Bronze Each	Chromium Plated Each	Polished Bronze Each	Chromium Plated Each
6	\$6.00	\$8.00	\$6.50	\$8.50
12	6.75	8.75	7.25	9.25
18	7.50	9.50	8.00	10.00

For additional lengths add for each 6 inches or fraction thereof, polished bronze, \$.75 each. Chromium plated, \$1.00 each.

Posts only, end or center, see Fig. 380.

## Grab Rail Posts

CAST BRONZE—HOLLOW



Fig. 380

No.	Polished Bronze Each	Chromium Plated Each	Diam. Base Inches	Height Overall Inches	Diam. Hole Inches	Weight Each Pounds
1	\$2.50	\$3.60	2 1/2	3 3/8	1 or 1 1/8	5/8
2	5.00	6.50	3	3 1/2	1 1/4	1 3/4

Specify whether for center or end.

## 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	\$1.25	\$2.25	2	3/8" Rod
1 1/2	.60	1.25	2.25	2	1/4" Pipe
2	.75	1.50	2.50	2 1/2	3/8" Rod
2 1/2	.75	1.50	2.50	2 1/2	1/4" Pipe
3	.90	1.70	2.75	3	3/8" Rod
3 1/2	.90	1.70	2.75	3	3/8" Pipe
5	1.75	3.50	4.75	4	3/4" Rod
5 1/2	1.75	3.50	4.75	4	1/2" Pipe

## Hand Rail Sockets

CAST BRONZE



Center



End

Fig. 215

No.	Polished Bronze Each	Chromium Plated Each	For Rail Diam. Inches	Height Overall Inches	Size of Base Inches	Weight Ounces
1	\$2.10	\$3.25	1	1 3/4	3 1/2 x 3/8	5
2	2.85	4.00	1 1/4	2	3 3/4 x 3/4	9

Please specify whether center or end and size.

## Wood Rail Hinges and Locks

CAST BRONZE



Fig. 122



Fig. 123

Lock has spring latch on bottom.

Fig. 122

No.	Polished Bronze Each	Chromium Plated Each	Size Rail Inches	Length Inches	Weight Pounds
1	\$7.00	\$8.50	1 1/2 x 2 1/2	5	1 7/8
2	7.00	8.50	1 3/8 x 3	3 3/8	1 3/4

Fig. 123

No.	Polished Bronze Per Set	Chromium Plated Per Set	Size Rail Inches	Length Inches	Weight Pounds
1	\$7.25	\$8.75	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





## 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	Chromium Plated Each	Thickness Inches
1 1/8	60	\$3.15	\$3.90	.045
1 1/4	60	3.30	4.05	.040
1 1/4	72	3.95	4.85	.040
1 1/2	60	3.45	4.20	.040
1 1/2	72	4.10	5.00	.040
2	60	3.60	4.50	.040
2	72	4.30	5.40	.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 1/8	60	\$2.30	\$2.80	.045
1 1/4	60	2.50	3.00	.040
1 1/4	72	3.00	3.60	.040
1 1/2	60	2.80	3.30	.040
1 1/2	72	3.40	4.00	.040

Supplied in special lengths to order, price on application.

Supplied undrilled and unpolished, price on application.

## 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	3x2 1/4	1 3/4 x 1	6

## Fender Moulding

18-8 STAINLESS STEEL, .045" THICK  
POLISHED



Fig. 110

For all classes of boats. A strong moulding with ends formed as illustrated. 6 foot lengths have both ends formed; 12 foot lengths have one end formed, the other end cut for splicing. All punched and countersunk for No. 7 oval head wood screws, 8 inch centers.

6 Foot Lengths Each	12 Foot Lengths Each	Width Outside Inches	Width Inside Inches	Weight Per Ft. Ounces
\$3.25	\$6.50	7/8	3/4	3

## Moulding Ends

CAST BRONZE—CHROMIUM PLATED



Fig. 111

For finishing cut end of moulding Fig. 110.

Each	Length Overall Inches	Length Head Inches	Width Neck Inches	Weight Ounces
\$1.25	2 3/8	1 1/8	3/4	1 1/2

## Moulding Couplings

CAST BRONZE—PLAIN



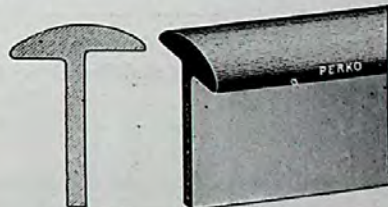
Fig. 38

For inside of Fig. 110 moulding at joint.

Each \$3.30

## Hatch Moulding

EXTRUDED BRASS—PLAIN FINISH



End View  
Full Size

Fig. 232

This type moulding insures a smooth and neat surface, as it is fastened to hatch on side, screw heads are invisible when hatch is closed.

Per Foot	Width Surface Inches	Depth Inches	Weight Per Foot Ounces
\$ .86	3/4	1 1/4	9

Supplied only in standard lengths of 12 feet.





## Mortise Locks

CAST BRONZE



Fig. 944

Cast bronze case with reversible latch bolt. Furnished with polished striking plate and one brass bit key.

No.	Pol. Bronze Each	Chrome Plated Each	Case Inches	Facing Inches	Back set Inches	Spindle Hub Inches
1	\$6.00	\$8.50	2 3/4 x 2 x 1/2	4 1/8 x 1 1/4	1 1/2	1 1/8
2	7.25	11.00	3 1/2 x 2 3/4 x 1/8	5 x 3/4	2 1/4	1 1/8

## Mortise Lock Sets

CAST BRONZE

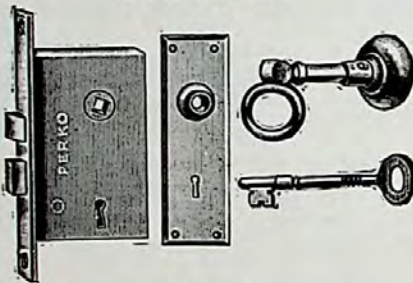


Fig. 945

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.	Pol. Bronze	Chrom. Plated
1, Price Per Set	\$10.00	\$13.75
2, Price Per Set	11.75	16.00

### SET B

With Shield Escutcheons, Round Knob and Drop Handle

Size No. 1, Price Per Set	\$ 9.50	\$12.75
Size No. 2, Price Per Set	11.25	14.50

### SET C

With Shield Escutcheons and Two Round Knobs

Size No. 1, Price Per Set	\$10.25	\$13.50
Size No. 2, Price Per Set	11.75	15.25

### SET D

With Combination Escutcheons and Two Round Knobs

Size No. 1, Price Per Set	\$10.75	\$14.50
Size No. 2, Price Per Set	12.50	16.00

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 Locks

CAST BRONZE

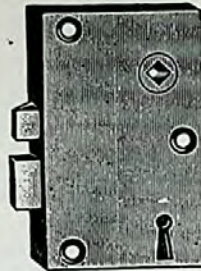


Fig. 1045

All bronze, with reversible latch bolt for right and left hand doors.

Furnished with polished bronze nosings and one brass bit key.

No.	Pol. Bronze Each	Chrome Plated Each	Size Case Inches	Spindle Backset Inches
1	\$7.25	\$10.00	2 1/2 x 2 x 1/2	1 1/8
2	8.00	11.00	3 3/4 x 2 1/2 x 3/8	1 1/2

## Rim Lock Sets

CAST BRONZE

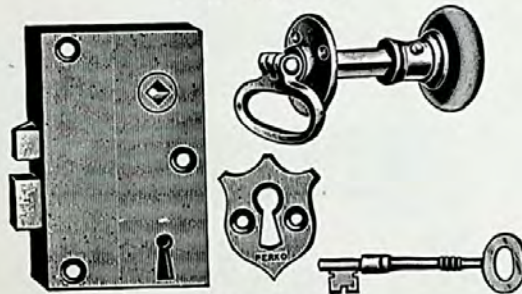


Fig. 1046

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.	Pol. Bronze	Chrom. Plated
1, Price Per Set	\$11.50	\$14.50
2, Price Per Set	12.50	16.00

### SET B

With Shield Escutcheons, Round Knob and Drop Handle

Size No. 1, Price Per Set	\$11.00	\$14.00
Size No. 2, Price Per Set	12.25	15.50

### SET C

With Shield Escutcheons and Two Round Knobs

Size No. 1, Price Per Set	\$11.75	\$15.00
Size No. 2, Price Per Set	12.75	16.25

### SET D

With Combination Escutcheons and Two Round Knobs

Size No. 1, Price Per Set	\$12.00	\$15.75
Size No. 2, Price Per Set	13.25	16.50

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.





### Tubular Lock Sets

ALL BRASS—FOR SMALL CABIN DOORS  
POLISHED OR CHROMIUM PLATED

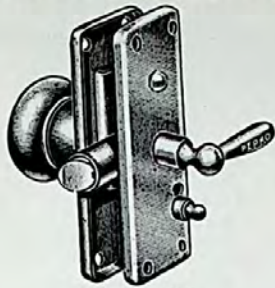


Fig. 567

Polished Brass Each	Chromium Plated Each	For Thickness Doors Inches	Size Escutcheon Inches	Size Knob Inches	Back-set Inches
\$4.00	\$6.00	7/8 to 1 1/8	4 3/8 x 1 3/8	1 3/4	1 3/8

### Door Knobs

CAST BRASS

Solid cast brass round knobs and rosettes. Wrought brass spindles.

Two Round Knobs

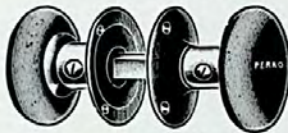


Fig. 1048

Diam. Knob Inches	Polished Brass Per Set	Chromium Plated Per Set	Size Spindle Inches
1 3/4	\$4.25	\$5.25	1/8

Round Knob and Drop Handle

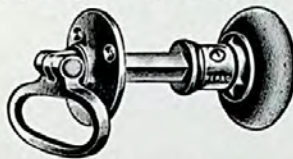


Fig. 1049

Diam. Knob Inches	Polished Brass Per Set	Chromium Plated Per Set	Size Spindle Inches
1 3/4	\$3.85	\$4.85	1/8

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	\$4.56	\$6.48	1	12
2	7.56	9.60	1 1/4	18

### Cupboard Catches

CAST BRASS

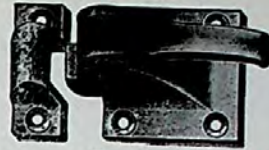


Fig. 1102

Furnished complete with screws.

No.	Polished Brass Each	Chromium Plated Each	Without Strike Inches	Weight Per Dozen Pounds
1	\$1.40	\$2.00	1 1/2 x 1 1/2	1 1/2
2	1.40	2.00	1 1/2 x 1 1/2	1 3/4

No. 2 has 3/8 inch offset.

### Cupboard Turns

WROUGHT BRONZE

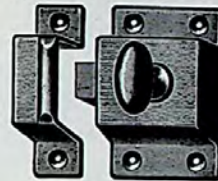


Fig. 1105

Furnished complete with screws.

Polished Brass Each	Chromium Plated Each	Without Strike Inches	Weight Per Dozen Pounds
\$1.30	\$1.75	2 1/4 x 1 1/2	3

### Cupboard Turns

CAST BRASS

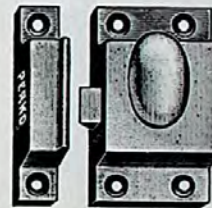


Fig. 949

No.	Polished Brass Each	Chromium Plated Each	Without Strike Inches	Weight Per Dozen Pounds
1	\$1.50	\$2.00	1 3/4 x 1 1/8	2 1/2
2	1.75	2.50	2 1/8 x 1 1/2	3 3/4

### Cupboard Catches

CAST BRASS



Fig. 950

No.	Polished Brass Each	Chromium Plated Each	Without Strike Inches
1	\$1.15	\$1.50	1 1/2 x 1
2	1.15	1.50	1 3/8 x 1 1/2
3	1.30	1.80	1 3/8 x 2





## Flush Ring Catch CAST BRASS



Size Inches	Polished Brass Each	Chromium Plated Each	Weight Ounces
$1\frac{5}{8} \times 1\frac{1}{4}$	\$1.25	\$1.75	1 1/2

## Flush Ring Pulls CAST BRASS



No.	Polished Brass Each	Chromium Plated Each	Size Plate Inches	Weight Ounces
1	\$.75	\$1.00	$1\frac{1}{4} \times 1\frac{1}{2}$	1
2	.85	1.10	$1\frac{1}{2} \times 2$	1 1/2
3	1.10	1.60	$1\frac{5}{8} \times 2\frac{1}{2}$	2 3/4
4	1.60	2.15	$2\frac{1}{4} \times 2\frac{3}{4}$	5

## Cabinet Latches CAST BRASS



Fig. 1064

With flush striking plate and brass pin, spring closing. Made either right or left hand.

Polished Brass Each	Chromium Plated Each	Length Overall Inches	Length Lever Inches
\$.95	\$1.20	2 1/2	2

## Refrigerator Fasteners CAST BRASS



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.	Pol. Brass Each	Chrom. Plated Each	Lgth. Over- all In.	Size Lever In.
1	\$1.75	\$2.50	5	4

## Barrel Bolts CAST BRASS



Fig. 947

No.	Pol. Brass Each	Chrom. Plated Each	Length Rod Inches	Size Base Without Strike Inches	Weight Per Dozen Pounds
1	\$1.10	\$1.45	2 1/4	2 x 1	1 1/2
2	1.35	1.75	3	3 x 1 1/8	2
3	1.75	2.25	4	3 1/2 x 1 1/4	3

## Flush Bolts CAST BRASS—POLISHED

CAST BRASS—POLISHED

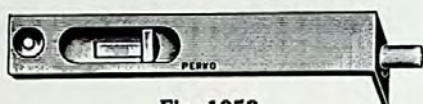


Fig. 1052

No.	Each	Size Inches	Weight Ounces
1	\$1.60	$\frac{3}{8} \times 2\frac{1}{2}$	1 1/2
2	1.60	$\frac{3}{8} \times 3$	2

## Ship Bolts CAST BRASS

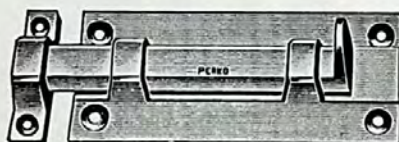


Fig. 1053

No.	Polished Brass Each	Chromium Plated Each	Size Without Strike Inches
1	\$1.10	\$1.35	$2\frac{5}{8} \times 1\frac{1}{8}$
2	1.60	1.95	$3\frac{5}{8} \times 1\frac{3}{8}$
3	2.25	2.75	$4\frac{3}{4} \times 1\frac{5}{8}$

## Square Neck Bolts CAST BRASS

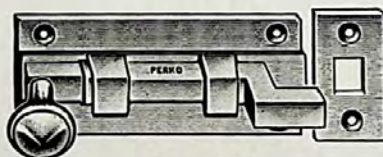


Fig. 1054

No.	Polished Brass Each	Chromium Plated Each	Size Inches
1	\$1.55	\$2.35	$3 \times 1\frac{1}{4}$
2	1.70	2.60	$4 \times 1\frac{1}{4}$

## Window Bolts CAST BRONZE SPRING TYPE

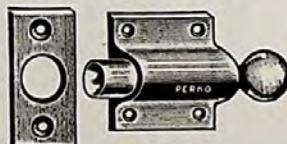


Fig. 1055

Base Inches	Polished Bronze Each	Chromium Plated Each
$1\frac{1}{8} \times 1\frac{1}{4}$	\$1.25	\$1.75





### New Security Hinged Hasp

WROUGHT BRASS—14 B. & S. GAUGE



Fig. 979

A lightweight but strong hasp. Ideal for lockers, cupboards, chests, etc. Supplied with screws.

Length Closed Inches	Polished Brass Each	Chromium Plated Each	Width Inches	Weight Ounces
2 7/8	\$ .60	\$1.10	1	1 1/4

### Security Hinged Hasps

CAST BRONZE

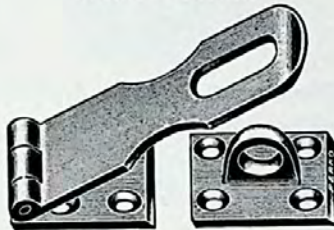


Fig. 955

Length Closed Inches	Polished Bronze Each	Chromium Plated Each	Width Inches	Weight Ounces
3	\$1.50	\$1.80	1	2 1/2
3 3/4	1.85	2.25	1 1/8	4 1/2

### Safety Hasps

EXTRA HEAVY CAST BRONZE



Fig. 1060

Polished Bronze Each	Chromium Plated Each	Length Inches	Width Inches
\$3.25	\$4.25	4 1/2	1 5/8

### Boston Hinged Hasps

GALVANIZED MALLEABLE IRON OR BRONZE

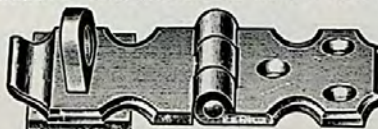


Fig. 954

Length Opened Inches	Galv. Each	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
4	\$ .85	\$1.60	\$2.30	\$3.20
6	1.25	2.25	3.50	4.50

### Cabin Door Hooks

CAST BRASS



Fig. 956

Lgth. Hook In.	Pol. Brass Each	Chrom. Plated Each	Wt. Ozs.	Lgth. Hook In.	Pol. Brass Each	Chrom. Plated Each	Wt. Ozs.
1 1/2	\$ .60	\$1.00	1	3 1/2	\$ .95	\$1.40	2 1/2
2	.65	1.05	1 1/2	4	1.00	1.50	3
2 1/2	.70	1.10	1 3/4	5	1.20	1.70	3 1/2
3	.80	1.20	2	6	1.40	2.00	4

### Cabin Door Hooks

DOUBLE JOINTED  
CAST BRASS



Fig. 957

Length Overall Inches	Pol. Brass Each	Chrom. Plated Each	Length Overall Inches	Pol. Brass Each	Chrom. Plated Each
2	\$1.20	\$1.60	4	\$2.00	\$2.50
2 1/2	1.25	1.65	5	2.35	2.95
3	1.35	1.70	6	2.50	3.25

### Wardrobe Hooks

CAST BRASS



Fig. 635

Polished Brass Each	Chromium Plated Each	Projection Inches	Width Inches	Weight Ounces
\$ .45	\$ .65	1 3/4	1	1

### Coat and Hat Hooks

CAST BRASS



Fig. 959

Polished Brass Each	Chromium Plated Each	Projection Inches	Width Base Inches	Weight Ounces
\$ .50	\$ .70	2	1 1/4	2 1/2



### Strap Hinges

GALVANIZED MALLEABLE IRON OR BRASS  
BRASS PINS



Fig. 120

Length Opened Inches	Galvanized Per Pair	Plain Brass Per Pair	Polished Brass Per Pair	Chrom. Plated Per Pair	Weight Per Pair Pounds
4	\$ .85	\$1.75	\$3.50	\$4.00	$\frac{1}{8}$
6	1.40	2.00	3.75	4.25	$\frac{3}{8}$
8	2.00	2.50	4.25	4.75	$\frac{7}{8}$
10	2.40	3.60	4.80	6.00	1 $\frac{1}{8}$
12	3.60	4.80	6.60	8.00	1 $\frac{5}{8}$

### Port Hinges

GALVANIZED MALLEABLE IRON OR BRASS  
BRASS PINS



Fig. 109

Length Opened Inches	Galvanized Per Pair	Plain Brass Per Pair	Polished Brass Per Pair	Chrom. Plated Per Pair	Weight Per Pair Pounds
4	\$1.40	\$2.25	\$3.25	\$4.00	$\frac{1}{2}$
6	1.75	3.00	4.50	5.50	$\frac{3}{8}$
8	3.35	4.75	6.60	7.75	1 $\frac{1}{2}$
10	4.80	6.00	9.00	10.50	2
12	6.35	11.50	14.50	16.00	2 $\frac{3}{8}$

### Cuddy Door Hinges

CAST BRASS



Fig. 951

Length Opened Inches	Plain Brass Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
3	\$1.50	\$2.10	\$2.50
3 $\frac{1}{2}$	1.85	2.60	3.00
4	2.25	3.00	3.50
5	2.60	4.00	4.50

### Fast Pin Butt Hinges

CAST BRASS—BRASS PINS

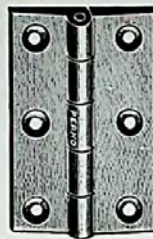


Fig. 952

Size Open Inches	Emery Finish Per Dz. Pairs	Pol. Chrom. Plated Per Dz. Pairs	Size Open Inches	Emery Finish Per Dz. Pairs	Pol. Chrom. Plated Per Dz. Pairs
1 $\frac{1}{2}$ x1 $\frac{1}{4}$	\$9.60	\$21.25	2 $\frac{1}{2}$ x2 $\frac{1}{2}$	\$24.00	\$48.00
1 $\frac{1}{2}$ x1 $\frac{1}{2}$	10.20	22.00	3 x2	27.00	53.00
2 x1 $\frac{1}{4}$	12.00	23.75	3 x2 $\frac{1}{2}$	30.75	57.50
2 x1 $\frac{1}{2}$	13.00	29.00	3 x3	33.00	60.00
2 x1 $\frac{3}{4}$	14.90	34.00	3 $\frac{1}{2}$ x3	43.00	80.00
2 x2	16.00	36.00	3 $\frac{1}{2}$ x3 $\frac{1}{2}$	47.80	89.00
2 $\frac{1}{2}$ x1 $\frac{3}{4}$	21.00	42.00	4 x3	56.50	102.00
2 $\frac{1}{2}$ x2	22.00	44.00	4 x4	67.00	116.00

Polished Brass, Price on Application  
Other Sizes Furnished to Order

### Loose Pin Butt Hinges

CAST BRASS—BRASS PINS

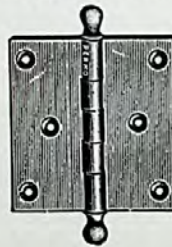


Fig. 953

Size Open Inches	Pol. Brass Per Pair	Chrom. Plated Per Pair	Size Open Inches	Pol. Brass Per Pair	Chrom. Plated Per Pair
1 $\frac{1}{2}$ x1 $\frac{1}{2}$	\$ 1.85	\$ 2.50	3 x2 $\frac{1}{2}$	\$ 4.40	\$ 6.00
2 x1 $\frac{1}{2}$	2.30	3.10	3 x3	4.60	6.20
2 x2	2.80	3.75	3 $\frac{1}{2}$ x3	5.50	7.30
2 $\frac{1}{2}$ x2	3.25	4.50	3 $\frac{1}{2}$ x3 $\frac{1}{2}$	6.60	8.80
2 $\frac{1}{2}$ x2 $\frac{1}{2}$	3.50	4.95	4 x3 $\frac{1}{2}$	8.50	11.50
3 x2	4.10	5.50	4 x4	8.75	12.00

### Skylight or Hatch Hinges

CAST BRASS



Fig. 376

Length Between Joints Inches	Plain Brass Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair	Length Open Inches
2	\$4.25	\$6.00	\$7.50	11 $\frac{1}{4}$
3	5.25	7.00	8.50	12 $\frac{1}{4}$
4	6.00	8.00	10.00	13
5	7.50	10.50	13.00	16 $\frac{1}{4}$
6	8.00	11.50	14.00	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	\$ .30	2 1/4	3/4	1 1/2	.035
2	.40	3 1/8	1 1/4	1 1/2	.040

**Spring Hinges**  
WROUGHT BRASS—PLAIN



Fig. 1059

No.	Per Pair	Length Inches	Width Open Inches	Weight Per Pair Ounces
1	\$ .70	2 3/8	1 1/8	3
2	1.10	3	2 3/8	5

**Spring Hinges**  
CAST BRONZE

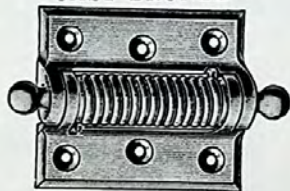


Fig. 1107

Polished Bronze Per Pair	Chromium Plated Per Pair	Length Inches	Width Inches	Weight Per Pair Ounces
\$5.45	\$7.25	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
\$7.25	\$9.00	3 1/8	2 3/8	1 1/4

Illustration shows one half pair.

**Cabinet Hinges**

BRASS—POLISHED OR CHROMIUM PLATED  
FLUSH OR OFFSET

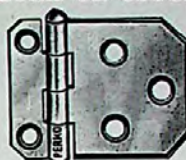


Fig. 772

Packed one dozen pairs per box, complete with screws. Offset is 1/8 inch.

Polished Brass Per Doz. Pairs	Chrom. Plated Per Doz. Pairs	Size Open Inches	Gauge	Weight Per Pair Ounces
\$10.00	\$13.00	2 x 1 1/2	14	2

Flush or offset, same price, please specify.

**Sash Hinges**

CAST BRONZE

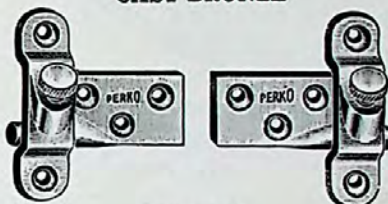


Fig. 418

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 1/2 x 3/8	2 1/2 x 1 1/4	6	7/8
2	1 1/2 x 3/8	3 1/4 x 1 1/4	7	7/8

No.	Polished Bronze Per Set	Chromium Plated Per Set
1	\$2.50	\$3.90
2	3.00	4.50

**Combination Sash Hinges**

WITH CURTAIN ROD SOCKETS  
CAST BRONZE

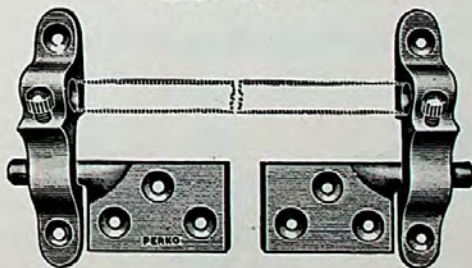


Fig. 960

Size of Hinge Plates Inches	Size of Bracket Base Inches	Weight Per Set Ounces	Length of Pin Inches
1 1/2 x 3/8	2 3/4 x 1 1/2	7	7/8

Polished Bronze Per Set	Chromium Plated Per Set
\$3.00	\$4.50





## Hatch Support Hinges

CAST BRASS



Fig. 758

Cut shows left hand hinge.

Length Open Inches	Polished Brass Per Pair	Chromium Plated Per Pair	Drilled for Screw No.	Packed Per Box Pairs
8	\$3.50	\$4.50	5	12
10	4.20	5.60	6	12
12	4.50	6.25	6	12
14	5.20	7.00	6	6
18	7.00	9.25	6	6

## Hatch Adjusters

CAST BRONZE

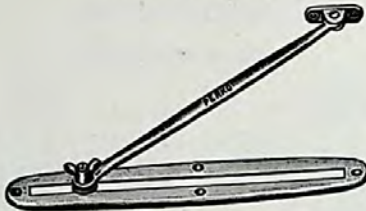


Fig. 797

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

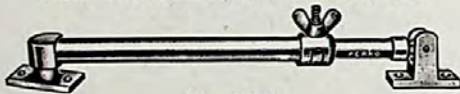


Fig. 1179

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
\$5.25	\$6.50	12	20	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

## Anti-Rattle Door Fastener

CAST BRASS

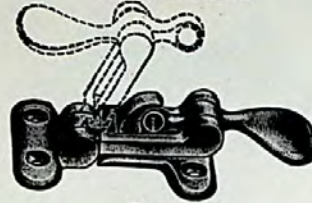


Fig. 1108

Has 1/4 inch hole in lever for padlock.

Polished Brass Each	Chromium Plated Each	Size Base Inches	Weight Ounces
\$1.95	\$3.00	3x2	6

## Sash Anti Rattlers

CAST BRONZE

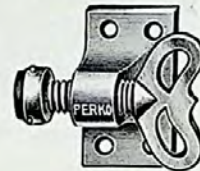


Fig. 839

Furnished with leather tip to prevent defacing of woodwork. Size of base 1 1/8" x 1".

Polished Bronze, Each.....	\$1.60
Chromium Plated, Each.....	2.20

## Sash or Skylight Fastener

CAST BRONZE

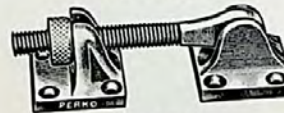


Fig. 770

Size (inches)	Emery Finish Each	Polished Bronze Each	Chromium Plated Each
3/8 x 4	\$3.00	\$3.50	\$4.50

## Sash Fasteners

LEFT OR RIGHT HAND  
CAST BRONZE



Fig. 777

Polished Bronze Each	Chromium Plated Each	Size Mounting Plate Inches	Weight Ounces
\$ .90	\$1.25	1 3/4 x 1	1 1/2

Please specify left or right hand





**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 7/8	.40	.75	3/4

**Cupboard Door Holder**  
BRASS PLATED



A useful little friction catch for use on cabinets, closets, cupboards and all small doors, size overall—1 1/2 x 1 3/8 inches.

Per Dozen .....\$1.00

**Friction Catches**

ALL BRASS—ADJUSTABLE TENSION

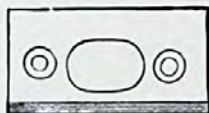
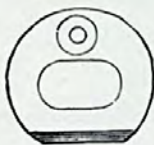


Fig. 178

Above cuts are full size. Supplied complete with either round or oblong strike. Please specify.

Per Gross — \$18.50

**Door Holders**  
SIDE PATTERN  
CAST BRONZE

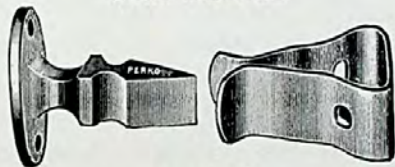


Fig. 1065

Polished Bronze Per Set	Chromium Plated Per Set	Base of Holder Inches	Base of Clip Inches	Projection Inches
\$1.90	\$2.40	1 3/4 x 3/8	2 1/8 x 3/4	2

FLOOR PATTERN

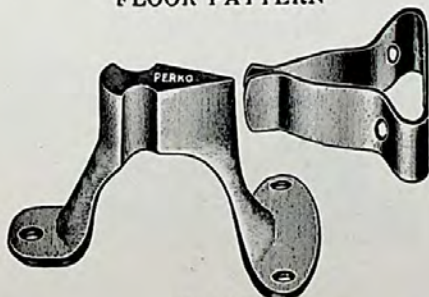


Fig. 1066

Polished Bronze Per Set	Chromium Plated Per Set	Height Holder Inches	Base of Holder Inches	Base of Clip Inches
\$2.25	\$2.75	1 3/4	2 5/8 x 1 3/4	2 1/8 x 3/4

**Drawer Pulls**

CAST BRASS



Fig. 958

Width Overall Inches	Polished Brass Each	Chromium Plated Each	Width Inside Inches	Weight Ounces
3	\$.50	\$.75	2 1/8	2
4	.60	.90	2 7/8	3

**Elbow Catches**

CAST BRASS

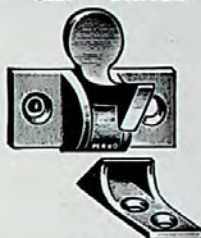


Fig. 1056

Small spiral brass spring in catch lever. For light cupboard doors, etc.

Size Base Inches	Plain Brass Each	Polished Brass Each	Chromium Plated Each	Weight Ounces
1 1/8 x 5/8	\$.45	\$.60	\$.85	1

**Door Buttons**

CAST BRASS BUTTON—WROUGHT BRASS PLATE



Fig. 948

No.	Diam. Inches	Polished Brass		Chromium Plated	
		Complete Per Dozen	Without Plate Per Dz.	Complete Per Dozen	Without Plate Per Dz.
1	1 1/2	\$5.00	\$1.75	\$8.50	\$3.25
2	1 3/4	5.75	2.20	9.00	3.65
3	2	7.00	2.50	10.75	4.60

**Door Stops**

CAST BRONZE  
RUBBER TIP



Fig. 1109

Furnished complete with screws.

Polished Bronze Each	Chromium Plated Each	Diam. Base Inches	Projection Inches	Weight Ounces
\$1.65	\$2.00	2	1 1/8	4



## Curtain Fasteners

WROUGHT BRASS



Fastener  
Fig. 995



Eyelet  
Fig. 996



Washer  
Fig. 997

Made of stamped brass, for single and double curtains.

Height Overall Single Inches	Height Overall Double Inches	Size Base Inches
3/4	7/8	1 1/4 x 1/2

Brass Finish	Chromium Plated	
	Single	Double
Per 100	Per 100	Per 100

Complete Sets, Figs. 995-996-997	Single	Double	Single	Double
Fig. 995 Only	14.35	16.00	17.50	19.00
Fig. 996 Only	2.00	2.00	3.50	3.50
Fig. 997 Only	1.00	1.00	2.75	2.75

Note—Double fasteners when ordered complete are supplied with two eyelets and two washers for each fastener.

## Hand Punch

FOR ABOVE CURTAIN FASTENERS  
CAST IRON WITH STEEL CUTTERS



Fig. 284

Each	Length Overall Inches	Weight Ounces
\$5.00	4	8

## Hand Screw Driver

FOR "LIFT THE DOT" STUDS  
STEEL WITH WOOD HANDLE



Fig. 290

Each	Length Overall Inches	Weight Ounces
\$2.30	5	2

## "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 1/2" No. 8.

Brass Finish	Chromium Plated	
	Single	Double
Per 100	Per 100	Per 100

Complete Sets, Figs. 114-116-118	Single	Double
Complete Sets, Figs. 115-117-118	\$10.25	\$16.50
Fig. 114 Only	3.85	5.50
Fig. 115 Only	3.85	5.50
Fig. 116 Only	6.00	9.00
Fig. 117 Only	6.50	9.50
Fig. 118 Only	.75	2.25

Note—Double fasteners when ordered complete are supplied with two double sockets and two clinch plates for each stud.

## Hand Punch

FOR "LIFT THE DOT" FASTENERS  
CAST IRON WITH STEEL CUTTERS



Fig. 285

Each	Length Overall Inches	Weight Ounces
\$3.00	3 3/4	6





**"Durable Dot" Fasteners**

BRASS



Button  
Fig. 896



Socket  
Fig. 898



Screw Stud  
Fig. 900



Canvas Stud  
Fig. 901



Eyelet  
Fig. 907

Screws on Fig. 900 screw studs are 1/2 inch No. 6.

For canvas to canvas, use sets made up of Figs. 896, 898, 901 and 907.

For canvas to wood, use sets made up of Figs. 896, 898 and 900.

**Curtain or Grommet Hooks**

CAST BRASS



Fig. 1000

Plain  
Brass  
Per Dozen  
\$1.60

Diam.  
Flange  
Inches  
3/8

Length  
Screw  
Inches  
1/2

**Grommet Hole Cutters**

FORGED STEEL



Fig. 903

No.	Each	Diam. Hole Inches	No.	Each	Diam. Hole Inches
0	\$1.30	1/4	5	\$3.95	3/8
1	1.30	5/16	6	4.30	7/16
2	1.50	3/8	7	4.60	1/2
3	1.50	7/16	8	4.95	5/8
4	2.00	1/2			1 1/8

	Brass Finish Per 100	Chromium Plated Per 100
Complete Sets, Figs. 896-898-901-907 .....	\$4.25	\$10.25
Figs. 896-898-900 .....	5.60	10.25
Fig. 896 Only .....	1.65	3.15
Fig. 898 Only .....	1.20	2.70
Fig. 900 Only .....	2.85	4.50
Fig. 901 Only .....	.75	2.25
Fig. 907 Only .....	.75	2.25

**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	\$4.80	\$4.80	1 1/4
1	5.50	5.50	1 3/8
2	5.65	5.65	1 3/8
3	5.80	5.80	1 7/8
4	6.20	6.20	2 3/8
5	6.60	6.60	2 3/8
6	8.50	8.50	3 1/2
7	11.25		3 1/2
8	12.25		5

**Hand Set Tool**

FOR ABOVE BUTTONS AND EYELETS  
STEEL

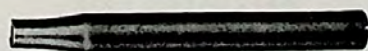


Fig. 905

Each	Length Inches	Weight Ounces
\$1.50	3 3/4	2

Use a wooden mallet with above dies.





## Paint Scraper Set

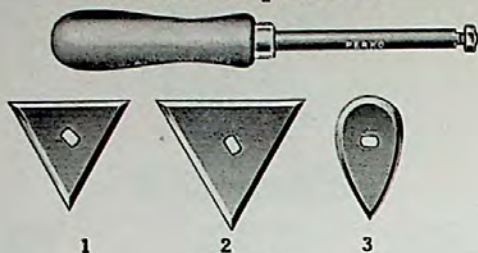


Fig. 1015

Per Set—\$2.50

Set consists of handle with 3 blades illustrated, and nut to change and attach blades.

Packed, 1 set to a box.

No. 1 Blade, Triangular—2½x2½ inches.

No. 2 Blade, Triangular—3x3 inches.

No. 3 Blade, Oval—2½x1¼ inches.

Length Handle—8½ inches.

## Paint Scrapers



Triangular  
Fig. 626

Oval  
Fig. 918

Fig.	Complete Per Doz.	Size Blade Inches	Length Inches	Weight Per Doz. in Lbs.
626	15.00	3 x 3	9½	5
918	9.50	2½x1½	6	2¾

## Ship Scrapers

GIBBS PATTERN—TEMPERED STEEL BLADES



Fig. 920

Each	Blades Only Each	Handles Only Each	Size Blade Inches	Length Inches
\$3.25	\$1.80	\$1.65	4½x½	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
\$12.00	1¼	⅝	1¾	17

## Double End Scrapers

FINE GRADE TOOL STEEL  
HEAT TREATED



Fig. 1175

Per Dozen	Length Inches	Width Inches	Thickness Inches	Width Blade Inches	Weight Per Dozen Pounds
\$12.00	15	1	¼	1¾	13

## Marline Spikes

POLISHED STEEL  
FOR WIRE ROPE



Fig. 921

Length Inches	Per Dozen	Approx. Weight Per Dozen in Pounds
8	\$31.00	6
10	35.00	10
12	37.50	12¾
14	41.00	16½
16	50.00	25
18	58.00	30

FOR MANILA ROPE



Fig. 922

Length Inches	Per Dozen	Approx. Weight Per Dozen in Pounds
6	\$16.50	5¾
8	16.50	7½
10	18.75	12
12	24.50	17
14	30.00	23½
16	43.00	27
18	51.50	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	\$10.00	12x1¾
1	11.50	14x1¾
2	13.00	16x2
3	15.00	18x2
4	23.00	20x2¼
5	36.00	24x3

## Caulking Irons

MALLEABLE IRON



Fig. 307

Size No.	Per Dozen	Thickness Inches	Length Inches	Width Blade Inches	Weight Per Doz. in Lbs.
00	\$16.20	⅝	5	2	3½
0	16.20	⅞	5¾	2½	4½
1	18.00	1	5¾	2¼	5¼





### Jib Snaps

GALVANIZED MALLEABLE IRON OR BRASS



Fig. 765

Size No.	Galv. Each	Plain Brass Each	Extreme Length Inches	For Dia. Stay Inches	Weight Per 100 in Lbs.
0	\$ .40	\$ .45	1 5/8	1/4	4 3/8
1	.45	.50	2	3/8	10
2	.60	.65	2 3/8	1/2	12 1/2
3	.65	.70	2 3/4	5/8	21
4	1.00	1.40	3	3/4	23 3/4

### Fast Eye Boat Snaps

GALVANIZED MALLEABLE IRON OR 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	\$ .45	\$ .50	\$ .85	3/8	2	5
1	.55	.60	.95	3/8	2 3/4	10
2	.60	.70	1.20	3/4	3 1/4	13 1/8
3	.70	.95	1.50	3/4	3 7/8	26 1/4
4	.90	1.40		1	4 1/8	27 1/2
5	1.20	1.70		1 1/8	4 7/8	43 3/4
6	1.40			1 1/4	5 1/4	56 1/4

### Swivel Eye Boat Snaps

GALVANIZED MALLEABLE IRON OR 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	\$ .75	\$ .80	\$ 1.20	3/8	3 1/4	11
2	.90	.95	1.35	3/4	3 1/4	16 1/4
3	1.10	1.20	1.90	3/8	4 3/4	32
4	1.35	1.45		1	5 1/4	37
5	1.65	1.75		1 1/8	6	60

### Baby Snaps

BRASS WITH FAST EYE



Fig. 842

Diam. of Eye Inches  
3/8

Brass Each  
\$ .18

Length Inches  
1 7/8

### Baby Snaps

WITH OBLONG EYE  
ELECTRO GALVANIZED OR BRASS



Fig. 1041

Size of Eye Inches	Galvanized Each	Brass Each	Length Inches
5/8 x 3/8	\$ .12	\$ .15	1 5/8

### Baby Snaps

WITH SWIVEL EYE  
MALL. IRON, NICKEL PLATED OR BRASS



Fig. 1042

Diam. of Eye Inches	Nickel Plated Each	Brass Each	Length Inches
3/8	\$ .22	\$ .30	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
\$ .40	\$ .60	3 1/2	3/4	3/8	2

### Solid Brass Rings

POLISHED



Fig. 417

Inside Diam. Inches	Thickness Inches	Per Dozen	Inside Diam. Inches	Thickness Inches	Per Dozen
1/2	3/16	\$1.00	1 3/4	3/8	\$4.50
5/8	3/16	1.10	2	1/4	5.30
3/4	3/16	1.30	2 1/2	3/8	8.25
7/8	3/16	1.60	3	3/8	11.00
1	3/16	1.95			
1 1/4	3/16	2.80			
1 1/2	3/16	3.30			



## ANCHOR SHACKLES

GALVANIZED DROP FORGED STEEL OR BRONZE

SCREW PIN



Fig. 314

ROUND PIN



Fig. 315

Prices and Dimensions Below Apply to Both Figs. 314 and 315.

Size inches	Galvanized Each	Plain Bronze Each	Length Inside Inches	Between Eyes Inches	Diameter Pin Inches	Steel Weight Per 100 in Pounds	Steel Approx. Strength in Pounds
1/8	\$ .40	\$ .70	7/8	1/8	1/4	7	3000
1/4	.40	.70	1 1/4	1/8	1/8	12	4005
3/8	.47	1.00	1 1/4	1/8	3/8	20	6165
1/2	.52	1.50	1 1/2	3/8	1/8	31	7920
5/8	.67	1.80	1 3/4	3/4	1/2	47	11925
3/4	.80	2.60	2	3/8	5/8	69	15570
7/8	1.20		2 1/2	1 1/8	3/4	137	26100
1	1.72		2 3/8	1 1/8	7/8	219	35280
1 1/8	2.26		3 1/4	1 1/2	1	319	47700
1 1/4	3.20		3 1/2	1 5/8	1 1/8	500	58140
1 3/8	4.64		4 1/8	1 7/8	1 1/4	681	68400
1 1/2	5.80		4 1/4	2	1 3/8	950	85500
1 3/4	7.26		4 7/8	2 1/4	1 1/2	1218	104400
1 7/8	9.44		6	2 1/2	1 5/8	1625	124200
2	13.30		8	3	2	2700	190800
2 1/2	20.00		8	3 3/8	2 1/4	3725	230400

Bronze Shackles are only furnished with screw pin, Fig. 314.

1/8 inch size supplied only with screw pin Fig. 314.

## CHAIN SHACKLES

GALVANIZED DROP FORGED STEEL

SCREW PIN



Fig. 338

ROUND PIN



Fig. 339

Size inches	Galvanized Each	Length Inside Inches	Between Eyes Inches	Diameter Pin Inches	Weight Per 100 in Pounds	Approx. Strength in Pounds
1/4	\$ .40	1 1/4	1/8	1/8	10	4700
3/8	.47	1	1/8	3/8	18	7200
1/2	.52	1 1/4	3/8	1/8	28	9300
5/8	.67	1 3/8	3/4	1/2	44	14100
3/4	.80	1 3/8	1 1/8	3/8	70	18300
7/8	1.20	2	1 1/8	3/4	130	30800
1	1.72	2 3/8	1 3/8	7/8	212	41600
1 1/8	2.26	2 3/4	1 1/2	1	300	56000
1 1/4	3.20	3 1/8	1 5/8	1 1/8	470	68800
1 3/8	4.64	3 3/8	1 7/8	1 1/4	600	81000
1 1/2	5.80	3 1/2	2	1 3/8	800	100800
1 3/4	7.26	4 1/2	2 1/4	1 1/2	1150	123000
1 7/8	9.44	5 1/8	2 1/2	1 5/8	1480	146000
2	13.30	6	3	2	2340	225000
2 1/2	20.00	6 1/4	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 Dozen	Stainless Steel Per Dozen	Length Overall Inches	Width Inside Inches	Wt. Per 100 in Lbs.
1/8	\$ 5.85	\$1.35	\$1.80	1 3/4	3/8	2 3/8
3/16	5.85	1.35	1.80	1 3/4	1/2	2 3/8
1/4	5.85	1.60	2.00	2	3/4	4 3/8
5/16	7.25	2.15	2.50	2 1/8	1 1/8	5 1/2
3/8	8.70	3.50	3.90	2 3/8	1 1/8	10 3/8
1/2	11.60			2 7/8	1 1/2	15 1/2
5/8	17.60			3 3/8	1 7/8	27 1/2
3/4	20.75			3 7/8	1 7/8	40
7/8	43.50			5 1/8	1 7/8	84
1	58.00			6 1/2	2 1/8	106
1 1/8	79.50			6 1/2	2 1/2	125
1 1/4	121.00			7	2 3/4	138
1 1/2	200.00			7 1/2	3	250
1 3/4	402.50			10	3 1/2	512
2	402.50			10	3 1/2	600

### Sail Thimbles

GALVANIZED MALLEABLE IRON OR BRASS



Fig. 469

*Size Inches	Galv. Per Dozen	Brass Per Dozen	Diam. Rope Inches	I. D. Hole Inches	Weight Per Doz. in Lbs.
3/4	\$ .85	\$ .95	1/4	1/4	1/4
1	1.00	1.45	1/2	5/8	3/8
1 1/4	1.35	2.65	3/8	3/4	5/8
1 1/2	1.70	3.85	3/8	1	7/8
1 3/4	2.15	4.40	7/8	1 1/4	1 1/8
2	2.55	4.95	1 1/2	1 1/2	1 1/2
2 1/4	3.45		5/8	1 5/8	2
2 1/2	4.40		3/4	1 3/4	2 3/4
2 3/4	5.25		3/4	2	3
3	6.00		3/4	2 1/4	4 1/4

\*Size is from edge to edge across hole.

### Lacing Eyes

GALVANIZED MALLEABLE IRON OR BRASS



Without Shoulder Fig. 766

Size No.	Galv. Per 100	Plain Brass Per Dozen	Pol. Brass Per Dozen
1	\$6.35	\$ .90	\$2.70
2	9.65	1.15	3.30
3	11.65	1.55	7.20
4	17.50	2.00	9.90



With Shoulder Fig. 767

I. D. of Eye Inches	Length Under Eye Inches	Wt. Per 100 in Lbs.
1/8	1	2 1/2
1/4	1 1/4	4 1/2
3/8	1 1/2	8
1/2	2	12

### 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	\$ 9.00	3/4	3/4	1 1/2
3/8	9.00	1/2	3/8	2
1/2	11.15	3/8	1	3
5/8	11.50	1/4	1 1/4	5 1/2
3/4	13.90	7/8	1 1/2	9
7/8	16.30	1	1 3/4	17
1	21.75	1 1/8	2	25 1/2
1 1/8	26.60	1 3/8	2 1/4	34
1 1/4	29.00	1 7/8	2 1/2	38
1 3/8	43.50	1 1/2	2 3/4	48
1 1/2	58.50	2	3	70
1 3/4	72.50	2 3/8	3 1/2	108
2	181.00	2 3/8	4	150
	330.00	2 3/4	5	180

### 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.
1/4	\$12.80	8 1/2	3/8	\$ 80.00	149
5/16	15.00	16 1/2	1/2	96.00	190
3/8	16.75	19	5/8	152.00	310
1/2	23.00	25	3/4	179.00	375
5/8	26.00	32	1 1/8	320.00	560
3/4	29.50	40	1 1/2	344.00	645
7/8	39.50	62	1 3/4	664.00	1085
1	56.00	101	2	808.00	1620

### 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	\$ .20	\$ .27	3/4	1 3/8	1 3/4
1/4	.22	.28	3/4	1 3/4	2
3/8	.28	.37	1	1 3/4	3
1/2	.37	.50	1	2	3 1/2
5/8	.45	.70	1 1/8	2 1/4	5





## OPEN TURNBUCKLES

DROP FORGED STEEL—HOT GALVANIZED

HOOK AND EYE



Fig. 390

EYE AND EYE

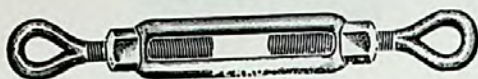


Fig. 391

HOOK AND HOOK



Fig. 392

JAW AND EYE

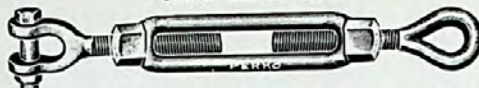


Fig. 393

JAW AND JAW

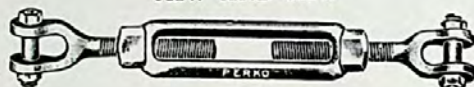


Fig. 394

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	\$ .72	\$ .72	\$ .72	\$ .90	\$ 1.08	8	3/8	1/2 x 3/8	1/8 x 3/8	1/3
* 1/8 x 4 1/2	.84	.84	.84	1.03	1.23	9 1/4	1/2	1/2 x 1/4	1/2 x 3/4	1/2
* 3/8 x 6	1.08	1.08	1.08	1.38	1.58	11 3/4	1/2	3/4 x 1	1/2 x 1 1/4	3/4
* 1/2 x 6	1.56	1.56	1.56	1.80	2.16	13	1 1/4	3/4 x 1 1/8	3/8 x 1	1 1/2
1/2 x 9	2.22	2.22	2.22	2.64	2.94	16	1 1/4	3/4 x 1 1/8	3/8 x 1	2
1/2 x 12	2.70	2.70	2.70	3.18	3.60	19		3/4 x 1 1/8	3/8 x 1	2 1/2
* 5/8 x 6	1.92	1.92	1.92	2.28	2.58	14	1 1/4	1 x 1 1/8	1 1/4 x 1 3/8	3
5/8 x 9	2.62	2.62	2.62	3.18	3.66	17	1 1/4	1 x 1 1/8	1 1/4 x 1 3/8	3 3/4
5/8 x 12	3.15	3.15	3.15	3.60	4.05	20		1 x 1 1/8	1 1/4 x 1 3/8	4 1/2
5/8 x 18		4.20		4.98	5.58	26		1 x 1 1/8	1 1/4 x 1 3/8	6
3/4 x 6	2.70	2.70	2.70	3.36	3.78	15 1/2	1 1/4	1 1/8 x 1 1/2	3/8 x 1 1/2	3 1/2
* 3/4 x 9	3.45	3.45	3.45	4.05	4.50	18 1/2	1 1/4	1 1/8 x 1 1/2	3/8 x 1 1/2	4 1/4
3/4 x 12	4.05	4.05	4.05	4.65	5.25	21 1/2	1 1/4	1 1/8 x 1 1/2	3/8 x 1 1/2	5 1/4
3/4 x 18		5.40		6.30	7.05	27 1/2		1 1/8 x 1 1/2	3/8 x 1 1/2	6 3/4
* 7/8 x 12	5.40	5.40	5.40	6.00	7.20	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		6.19		7.20	8.28	29 3/4		1 1/8 x 2	1 1/8 x 1 3/4	10
1 x 6		5.45		6.20	7.12	19		1 1/8 x 2	1 1/4 x 2	8 1/2
* 1 x 12	6.05	6.05	6.05	6.90	7.92	25	1 1/4	1 1/8 x 2	1 1/4 x 2	11 1/4
1 x 18		7.92		9.36	10.44	31		1 1/8 x 2	1 1/4 x 2	13 3/4
1 x 24		9.72		11.52	12.60	37		1 1/8 x 2	1 1/4 x 2	16 1/4
* 1 1/4 x 12		10.44		12.96	15.84	30		1 1/4 x 2 3/8	1 3/8 x 2	17 3/4
1 1/4 x 18		12.96		15.84	18.72	36		1 1/4 x 2 3/8	1 3/8 x 2	22 3/4
1 1/4 x 24		16.56		18.72	21.60	42		1 1/4 x 2 3/8	1 3/8 x 2	27 3/4
1 1/2 x 12		15.84		18.72	21.60	32		1 1/4 x 2 3/8	2 x 2 3/8	30
* 1 1/2 x 18		19.44		22.68	25.92	38		1 1/4 x 2 3/8	2 x 2 3/8	35
1 1/2 x 24		24.48		28.80	33.12	44		1 1/4 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.

3/4 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 & Eye inches	Fig. 381 Jaw & Eye Each	Fig. 382 Jaw & Jaw Each	Fig. 398 Jaw & Eye Each	Length of Pipe Inches	Weight Per 100 in Lbs.
1/4	\$1.10	1.86	\$1.66	5 1/2	47 1/2
3/8	1.30	2.17	1.93	5 3/4	62 1/2
1/2	1.60	2.39	2.23	6 1/2	102
3/4	2.30	3.46	3.10	8	178
1	3.30	4.79	4.39	10 3/4	369
1 1/4	4.40	6.38	5.98	12	500
1 1/2	5.75	9.21	8.31	15	775
2	7.75	11.73	10.47	15	1025
2 1/4		18.43	16.76	16	2050
2 1/2		33.53	30.17	21	3200

### Petite Turnbuckles

CAST BRONZE—S.A.E. THREADS

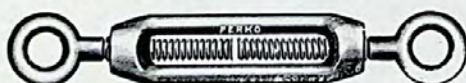


Fig. 396

No.	Per Dozen	Diam. Ends Inches	Length Extended Inches	Takeup Inches	Weight Per 100 in Lbs.
1	\$3.10	1/8	3	3/4	3
2	3.75	3/16	4	1 1/8	6 1/4
3	5.75	1/4	5	1 1/2	11 1/2
4	6.30	5/16	5 3/4	1 7/8	15
5	8.00	3/8	6 3/8	2 1/4	24 1/2

Note—Nos. 1, 2 and 3 have wire eyes; Nos. 4 and 5 have cast solid eyes.

### Swivels

GALVANIZED MALLEABLE IRON OR 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	\$.16	\$.35	3/8	1/8	3/8	1 3/4	4
2	.22	.50	1/4	3/8	1/2	2 1/8	7 1/2
3	.35	.60	3/8	1/2	3/4	2 1/2	10
4	.50	.85	1/2	3/4	1 1/4	3 1/4	19 1/2
5	.65	1.05	5/8	1 1/4	1 3/4	3 1/2	24 1/2
6	.90	1.25	3/4	1 1/2	2	4 3/8	41

### 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	\$1.26	3 1/4	3/4	19	2 1/2
3/8	1.59	4	1	33	4 1/4
1/2	1.70	4 7/8	1 1/8	53	5 1/2
5/8	2.58	6 1/4	1 3/8	133	9 1/2
3/4	4.34	7 7/8	1 3/8	275	14 3/4
7/8	6.16	9 3/8	1 7/8	456	18 1/2
1	7.86	10 3/8	2 1/8	671	22 1/4
1 1/8	8.50	12	2 3/8	1000	27 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	\$1.70	3	1/2	3/4	16
3/8	1.98	3 3/4	1/2	1	27
1/2	2.20	4 3/4	3/8	1 1/8	60
5/8	3.52	6	7/8	1 3/8	125
3/4	4.89	7 1/4	1	1 5/8	225
7/8	6.82	8	1 1/8	1 7/8	400
1	8.69	10	1 3/8	2 1/8	550
1 1/4	15.00	14	2	2 7/8	1525

Note—Jaw End Swivels have same approximate tensile strength as Swivels, Fig. 622.

### Jaw and Jaw Swivels

DROP FORGED STEEL



Fig. 481

Size Inches	Galv. Each	Overall Length Inches	Width Inches	Length Inches	Dimensions of Jaws Inside	Est. Wt. Each in Lbs.
3/8	\$2.40	4 3/4	1 1/8	3/8	1 1/8 x 3/8	1
1/2	3.90	6 1/8	7/8	3/4	1 1/8 x 3/4	1 3/4
5/8	5.22	7 1/2	1 1/8	1	1 1/8 x 1	3
3/4	7.38	8 3/8	1 3/8	1 3/8	1 3/8 x 1 3/8	5





## Screw Eye Bolts

GALV. DROP FORGED STEEL OR 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	\$.19	\$.19	\$.50	1/2	6
1/4 x 2 1/4	.23	.23	.65	3/8	12
3/8 x 2 1/2	.26	.26	.85	3/4	17
1/2 x 3 1/4	.38	.38	1.60	1	43
3/4 x 4	.67	.67		1 1/4	92
3/4 x 4 1/2	1.14	1.14		1 1/2	146
1/2 x 5	1.20	1.20		1 3/4	220

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	\$.45		1 3/4	14
1/4 x 2 1/4	.50		2	25
3/8 x 2 1/2	.64	\$.64	2	40
1/2 x 3 1/4	.90		2 1/2	88
3/8 x 4	1.40	1.40	2 3/4	160
3/4 x 4 1/2	2.23	2.23	3	245
1 x 6	4.35	4.35	3 3/4	590

## Nut Ring Bolts

GALV. DROP FORGED STEEL OR BRONZE



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	\$.24	\$.24	\$.60	1/2	7
1/4 x 4	.33	.33	.80	1/2	10
1/4 x 2 1/4	.26	.26	.75	3/8	13
1/4 x 4 1/4	.40	.40	1.10	3/8	17
3/8 x 2 1/2	.30	.30	.95	3/4	21
3/8 x 4 1/2	.45	.45	1.20	3/4	27
3/8 x 6	.52			3/4	32
1/2 x 3 1/4	.46	.46	1.75	1	45
1/2 x 6	.66	.66	2.50	1	65
1/2 x 8	.76			1	75
1/2 x 10	.82			1	85
3/8 x 4	.76	.76		1 1/4	85
3/8 x 6	.94	.94		1 1/4	110
3/8 x 8	1.04			1 1/4	135
3/8 x 10	1.20			1 1/4	160
3/8 x 12	1.32			1 1/4	185
3/4 x 4 1/2	1.20	1.20		1 1/2	132
3/4 x 6	1.50	1.50		1 1/2	160
3/4 x 8	1.62			1 1/2	184
3/4 x 10	1.74			1 1/2	208
3/4 x 12	1.88			1 1/2	232
1/2 x 5	1.68	1.68		1 3/4	215
1/2 x 8	2.13	2.13		1 3/4	265
1/2 x 12	2.45			1 3/4	339
1 x 6	2.36	2.36		2	340
1 x 9	2.99	2.99		2	400
1 x 12	3.26			2	463

Sizes are diameter and length of shank.

Special lengths and threading available if ordered in manufacturing quantities.

Bronze eye bolts are drop forged bronze, not cast.



Without Shoulder—Fig. 620

With Shoulder—Fig. 621

Size Inches	Fig. 620 Galv. Each	Fig. 621 Galv. Each	Fig. 621 Plain Bronze Each	I. D. Ring Inches	Weight Per 100 in Lbs.
1/4 x 2	\$.55	\$.55	\$1.10	1 3/4	16
1/4 x 4	.64			1 3/4	19
1/4 x 2 1/4	.64	.64	1.25	2	28
1/4 x 4 1/4	.72			2	33
3/8 x 2 1/2	.72	.72	1.65	2	42
3/8 x 4 1/2	.90	.90		2	48
3/8 x 6	.98			2	52
1/2 x 3 1/4	1.00	1.00		2 1/2	94
1/2 x 6	1.27	1.27		2 1/2	115
1/2 x 8	1.33			2 1/2	131
1/2 x 10	1.41			2 1/2	147
5/8 x 4	1.54	1.54		2 3/4	175
5/8 x 6	1.81	1.81		2 3/4	190
5/8 x 8	1.92			2 3/4	205
5/8 x 10	2.03			2 3/4	220
5/8 x 12	2.12			2 3/4	235
3/4 x 4 1/2	2.45	2.45		3	275
3/4 x 6	2.90	2.90		3	300
3/4 x 8	3.04			3	334
3/4 x 10	3.18			3	368
3/4 x 12	3.32			3	400
7/8 x 5	3.63	3.63		3 1/4	415
7/8 x 8	4.25			3 1/4	465
7/8 x 12	4.62			3 1/4	531
1 x 6	5.25	5.25		3 3/4	630
1 x 9	5.98			3 3/4	710
1 x 12	6.30			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	\$ .33	2 7/8	1 1/8	1/4	14
1/2	.38	3 3/8	1	1/4	28
5/8	.60	4 1/8	1 1/4	1/4	50
3/4	.77	5 3/8	1 1/2	1/8	90
7/8	1.04	6 1/2	1 5/8	1 3/8	148
1	1.37	7	1 3/8	1 1/4	225

**Connecting Links**  
DROP FORGED STEEL  
WITH INTERLOCKING LUGS

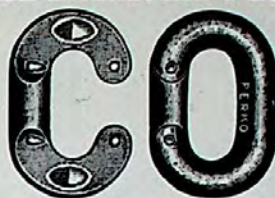


Fig. 319

Size Inches	Galv. Per Dozen	S. C. Per Dozen	Overall Dimensions Inches	Est. Wt. Per Doz Pounds
1/8	\$2.36	\$1.81	1 1/8 x 3/4	3/8
1/4	2.36	1.81	1 1/2 x 1	3/4
3/8	2.61	1.88	1 3/4 x 1 1/8	1 1/8
1/2	3.47	2.60	2 1/8 x 1 3/8	2 1/8
5/8	4.16	3.14	2 3/8 x 1 1/2	3 1/8
3/4	5.04	3.47	2 3/8 x 1 3/4	4 1/2
7/8	7.86	5.58	3 3/8 x 2 1/8	8
1	10.45	7.84	3 7/8 x 2 1/2	14 1/4
1 1/8	14.63	10.69	4 1/2 x 3	22
1 1/4	22.14	17.42	5 x 3 3/8	32
1 1/2	26.12	21.39	5 5/8 x 3 3/4	40
1 3/4	34.05	27.72	6 1/8 x 4 1/4	57
2	42.79	38.83	6 3/4 x 4 3/4	75

Note: 1/8, 1/4 and 3/8 inch sizes do not have interlocking lugs.

**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	\$ .71	2 7/8	1 3/8	19
1/2	.77	3 3/8	1 3/8	36
5/8	1.26	4 1/8	1 1/2	62
3/4	1.37	5 5/8	1 1/2	102
7/8	1.92	6 1/2	3/8	170
1	2.36	7	3/4	250

For size of eye and throat opening, see Fig. 656.

**Screw Hooks**  
STEEL—GALVANIZED



Fig. 779

Size Inches	Galvanized Per Doz.	Length Overall Inches	Est. Wt. Per Doz. in Lbs.
1/4	\$2.00	3 1/2	3/4
3/8	2.40	4	1
1/2	2.70	4 3/4	2 1/8
5/8	4.80	5 3/8	4 3/4



Fig. 784

Size Inches	Galv. Per Dozen	S. C. Per Dozen	Length Overall Inches	Diam. Eye Inches	Weight Per Dozen Pounds
1/8	\$2.65	\$2.00	1 3/4	1/8	7/8
1/4	2.85	2.25	2	3/8	1
3/8	3.20	2.50	2 1/4	1/2	1 3/4
1/2	3.95	3.15	2 3/8	5/8	2 3/4
5/8	6.20	4.85	3 1/4	3/4	4 1/2
3/4	8.25	6.50	3 5/8	7/8	6
7/8	14.50	11.25	4 3/8	1	11
1	19.50	14.50	5 1/4	1 1/8	17 1/2

**"S" Hooks**  
GALVANIZED WROUGHT STEEL



Fig. 680

Size Inches	Per Dozen	Length Overall Inches	Est. Wt. Per Doz. in Lbs.
1/4	\$ .65	1 1/2	1/4
3/8	.90	2	1/2
1/2	1.65	2 1/2	1
5/8	2.00	3	1 3/4

**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	\$ .65	1 x 1/2	3/8	\$2.15	1 1/2 x 1 1/2
1/2	.75	1 1/2 x 1/2	1/2	3.30	2 x 1
5/8	1.50	1 1/2 x 3/4			





## Non-Fouling Kedge Anchors GALVANIZED DROP FORGED STEEL

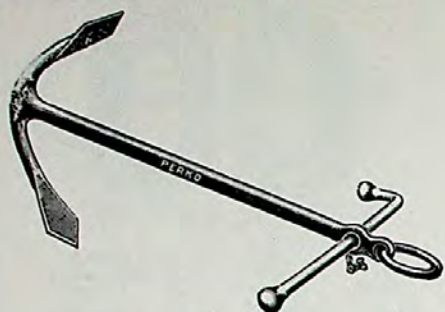


Fig. 236

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	\$ 8.25	17	10
10	10.75	25	15
15	12.00	29	18
20	14.25	31	19
25	16.50	35	20
30	19.75	36½	22
35	21.00	40	22
42	25.30	40	22
50	30.25	43	24½
60	35.75	44½	27½
75	42.35	46	28
100	59.40	50	32
125	73.70	57	32
150	83.60	59	34½
200	125.00	65	34½
250	165.00	62½	43½

## Navy Type Anchors DROP FORGED SHANK—GALVANIZED



Fig. 45

Weight Pounds	Each	Weight Pounds	Each
5	\$3.00	50	21.25
10	4.85	60	24.75
15	6.60	80	36.25
20	8.70	100	48.00
25	10.60	125	58.00
30	13.25	150	67.00
35	15.00	200	87.00
40	17.00		

## Grappels GALVANIZED DROP FORGED STEEL FIVE PRONG

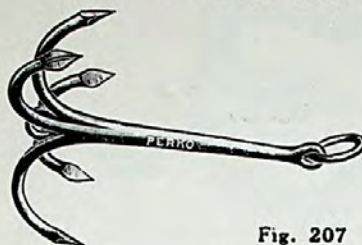


Fig. 207

Weight Pounds	Galvanized Each	Weight Pounds	Galvanized Each
4	\$5.00	15	8.50
7	6.00	20	13.25
10	6.60		

Larger sizes—prices on application.

## Fishing Anchors FOR SMALL BOATS

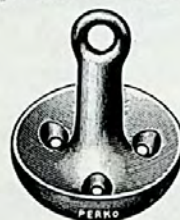


Fig. 1028

Weight Pounds	Self Colored Each	Galvanized Each	Diam. Inches	Height Inches
7	\$1.90	\$2.65	6	8
11	2.65	3.75	7	9
15	3.40	4.70	8	10

## Folding Anchors GALVANIZED MALLEABLE IRON

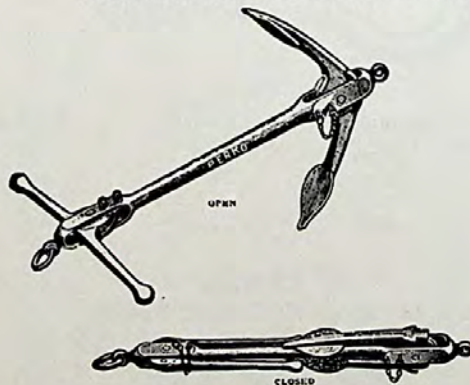


Fig. 226

Weight Pounds	Each	Length Inches	Weight Pounds	Each	Length Inches
6	\$ 6.50	19	30	\$29.00	34
8	9.00	22	35	34.00	36
10	11.00	23	45	44.00	38
12	13.00	25	55	53.00	41
15	16.00	28	76	70.00	44
20	20.50	30			
25	25.00	33			





### "Danforth" Anchors

GALVANIZED STEEL

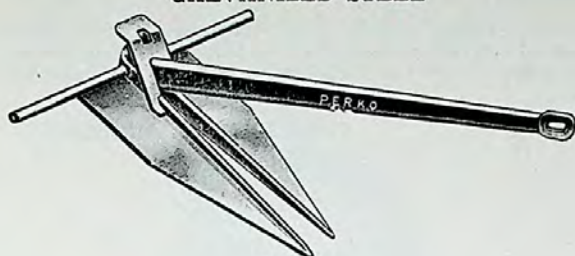


Fig. 700

### Mark VII Standard Anchor

Alloy 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
10	24	\$12.00	65	50	\$ 54.00
15	28 $\frac{3}{4}$	20.00	85	54 $\frac{1}{4}$	74.00
25	35	28.00	150	52 $\frac{1}{4}$	115.00
40	40 $\frac{3}{4}$	42.00			

Larger sizes 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	\$11.00	28	39 $\frac{1}{2}$	\$ 44.00
12	27 $\frac{1}{2}$	21.50	50	49	90.00
18	34 $\frac{1}{4}$	32.00	75	53 $\frac{1}{2}$	110.00

### 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
2 $\frac{1}{2}$	17 $\frac{5}{8}$	\$3.95
4 $\frac{1}{2}$	18 $\frac{3}{4}$	5.95

#### SUGGESTED SIZES

Maximum Length of Boat	"Standard"		Lunch Hook	"Hi-Tensile"	
	Working Anchor	Storm Anchor		Working Anchor	Storm Anchor
12 ft.	2 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$ (Std.)	5	5
20 ft.	4 $\frac{1}{2}$	15	5	12	18
30 ft.	15	25	12	18	28
40 ft.	25	40	18	28	50
60 ft.	40	65	28	50	75
80 ft.	85	150	28	50	75
100 ft.	150	200	50	75	
125 ft.	200	300	75		
150 ft.	300	500			
200 ft.	500	750			

Note: Be sure to mention type number when ordering. Mark VII will be shipped unless otherwise specified.

### Northhill Utility Anchors

HEAT TREATED DUCTILON—GALVANIZED NORTHILL HOLDING POWER AT LOW PRICE

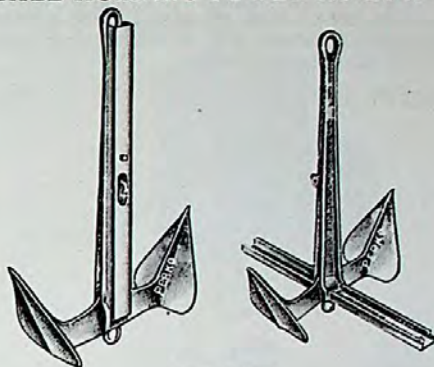


Fig. 1067

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	Com-parative Weight Kedge Type Pounds	Com-parative Weight Navy Type Pounds
3R	\$ 9.50	6	30	50
6R	18.50	13	65	110
12R	31.50	25	130	225
20R	44.50	47	225	400
30R	64.50	75	350	610
50R	86.50	105	525	918

### New Northhill Rowboat Anchor

GALVANIZED HEAVY GAUGE STEEL FOR SMALL SAILBOATS OUTBOARDS AND ROWBOATS

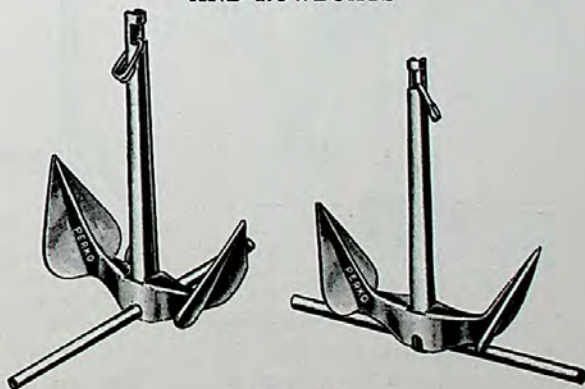


Fig. 548

The arm and fluke assembly pivot on the shank for stowage or to open for use.

Each	Weight Pounds	Inches Length	Width Flukes
\$4.85	3	12	10





## ANCHOR CHOCKS

CAST BRONZE—PLAIN

Every decked boat should be equipped with a set or two of these anchor chocks, to prevent the damage caused by a loose anchor on deck especially when a rough choppy stretch of sea is encountered. Repairing gouged decks, ventilators, hatch covers, etc., is wasteful expense if it can be avoided. When the anchor is installed in these chocks no part of it touches the deck.

### FOR NAVY TYPE ANCHORS

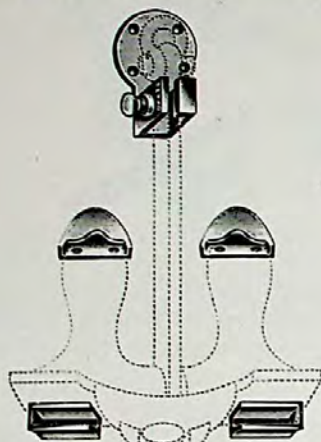


Fig. 938

Consists of five parts illustrated. Head of shank is held in place by an overhang and thumb screw arrangement. For all sizes up to 60 pounds inclusive.

Weight Per Set, 3 pounds

Price Per Set \$8.80

### FOR KEDGE ANCHORS

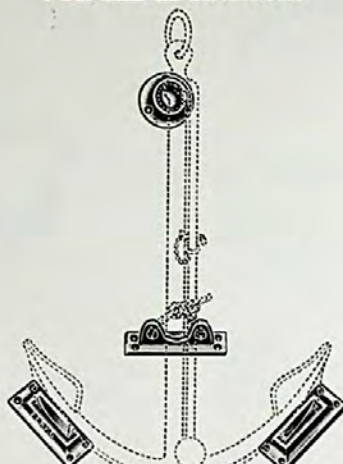


Fig. 939

Consists of four parts illustrated. The lashing piece has two eyes large enough for 3/8 inch diameter rope. For all sizes up to 75 pounds inclusive.

Weight Per Set, 2 1/2 pounds

Price Per Set \$6.50

### FOR NORTHILL ANCHORS

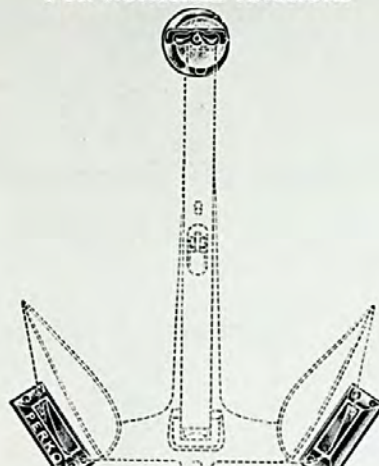


Fig. 941

Consists of three parts illustrated. Part for shank head has threaded bolt to pass through eye of shank, head is fastened down by wing nut and cross bar on bolt. For all sizes up to No. 20-R inclusive.

Weight Per Set, 2 1/4 pounds

Price Per Set \$6.50

### FOR DANFORTH ANCHORS

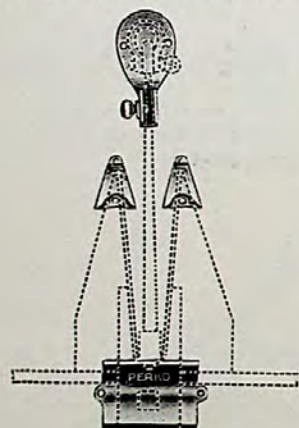


Fig. 933

Consists of four parts illustrated. Head of shank is held fast by slotted casting and thumb screw.

For all sizes up to 30 pounds inclusive.

Weight Per Set 1 3/4 pounds

Price Per Set \$6.00

### NEW ANCHOR LASHING FITTING CAST BRONZE BASE Brass Eyebolts and Nuts

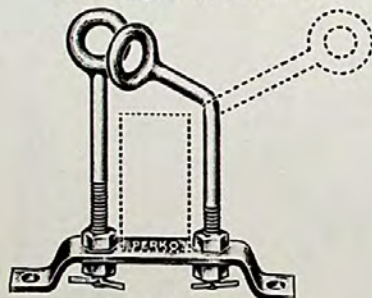


Fig. 965

For all types of anchors mentioned on this page. Eyebolts are adjustable to suit the size of anchor shank. The eyes serve for a padlock if desired.

Size No. 1 is for Navy, Kedge or Danforth anchors.

Size No. 2 is for Northill anchors.

No.	Each	Length Between Base Inches	Between Eyebolts Inches	Weight Ounces
1	\$3.00	4 1/2	1 1/2	8
2	3.50	7	4	10

### ANCHOR LASHING FITTING CAST BRONZE STRONG VINYLITE STRAP

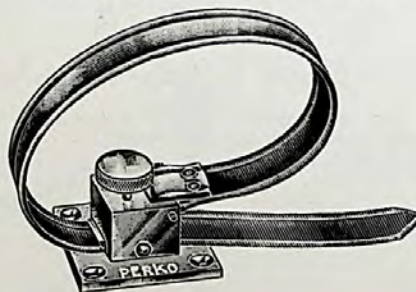


Fig. 964

When the anchor is in its chocks there's plenty of space for this unique and useful fitting for lashing the anchor fast, quickly and securely. The strap has exceptional strength and long life.

Each	Size Base Inches	Height Inches	Weight Ounces
\$5.00	2 1/2 x 2 1/2	1 3/4	12



## Round Steel Mooring Buoy

17" DIAM.—18 GAUGE—WELDED—GALVANIZED STEEL ROD THROUGH CENTER—EYE ON TOP—SWIVEL ON BOTTOM WITH 1 3/8" DIAM. RUBBER BUMPER—BLACK FINISH



Fig. 1068

Body of buoy is grooved to firmly hold rubber bumper in place. The buoy rod passes through a length of pipe and is not attached to body of buoy. All strain is on the rod.

Load capacity, half submerged is 60 pounds, equal to 75 feet of 3/4 inch chain or 32 feet of 5/8 inch chain, dead weight.

Each	Diameter Rod Inches	Size Inside Swivel Inches	Weight Pounds
\$35.00	3/8	3 1/2 x 2	17

## Hold Fast Mooring Buoy

WITH RUBBER BUMPER  
GALVANIZED SHEET IRON



Fig. 445

A heavy gauge galvanized sheet iron body, a 3/8 inch forged rod through a galvanized pipe in the body, large eye on top, large heavy swivel on bottom, a substantial rubber bumper set in groove of body, will not mar or scratch hull of boat.

No.	Each	Diam. Body Inches	Length Body Inches	Length Overall Inches	Inside Diam. Eye Inches	Weight Pounds
1	\$22.00	13	22	33 1/2	3	15
2	30.00	17	27	38 1/2	3	24

## Junior Mooring Buoy

FOR RUNABOUTS AND ALL SMALL BOATS  
GALVANIZED SHEET IRON



Fig. 318

Made of sheet iron with 1/2 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 1/4 inch chain.

No.	Each	Diam. Body Inches	Length Body Inches
1	\$14.00	12	15

## Cone Mooring Buoy

GALVANIZED SHEET IRON  
WITH RUBBER BUMPER



Fig. 370

Heavy galvanized iron, iron pipe running all the way through buoy, heavy galvanized 3/8 inch buoy rod through pipe allowing body to swivel, eye on top, swivel on bottom, body grooved for bumper which is of heavy 1 1/2 inch outside diameter rubber hose.

No.	Each	Body Size Inches
1	\$34.00	16x24
2	42.50	20x30
3	51.50	24x36
4	61.50	30x36

Size does not include swivel or eye.



## 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	\$8.50	9	14	4
2	9.90	12	18	5

Fig. 235

No.	Each	Diam. Inches	Length Inches	Weight Pounds
0	5.50	7	11	3
1	7.15	13	22	5
2	8.80	16	24	6½

## 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	¾	⅛	⅛	⅛
2	.24	1	⅜	¼	⅛
3	.27	1¼	⅜	⅜	⅜
4	.30	1½	½	⅜	⅜
5	.40	1¾	⅝	⅝	¼
6	.45	2	⅝	½	¼
7	.55	2½	¾	⅝	⅜
8	.65	3	⅞	¾	⅜

### BRONZE

9	.28	⅝	⅝	¼	⅜
10	.31	¾	⅝	¼	¼
11	.35	¾	⅝	⅜	¼
12	.39	⅞	⅝	⅜	⅜
14	.45	1⅛	⅝	⅜	¼
15	.52	1⅛	⅝	½	⅜
16	.58	1¼	⅝	⅝	⅜
17	.65	1¾	⅝	⅝	⅜
18	.78	1¾	⅝	⅝	¼
19	.84	1⅞	⅝	⅝	⅜
20	1.17	2¼	⅝	⅝	⅜
21	5.20	6	⅝	⅝	⅜

## Braided Tiller Rope

WITH BRONZE CENTER



Fig. 761

Diam. Inches	Per 100 Feet
⅝	\$ 8.00
¾	10.00
⅞	14.00
⅞	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 ⅛ inch plow steel, 6 x 7 lay. Tested over a 1½ inch sheave 750,000 times. No noticeable wear in rubber covering.

Diam. Inches	Per 100 Feet	Strength in Pounds	Weight 250 Ft. Coil in Pounds
⅝	\$ 8.00	300	8½
¾	10.00	350	14½
⅞	14.00	660	19

Supplied only in 250 foot coils.

## Assorted Brass Pins

FOR BLOCK SHACKLES, TURNBUCKLES, ETC

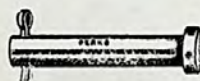


Fig. 1176

No.	Each	Diam. Pin Inches	Length Under Head Inches	Diam. Head Inches	Type Head
1	\$.25	⅝	⅞	¼	Flat
2	.25	⅝	1	¼	Flat
3	.25	⅝	⅞	⅝	Flat
4	.25	¼	¾	⅝	Flat
5	.28	¼	⅞	⅝	Flat
6	.30	¼	1⅞	⅝	Flat
7	.30	¼	1½	⅝	Flat
8	.30	⅝	⅞	⅝	Flat
9	.30	⅝	1⅞	⅝	Flat
10	.30	⅝	1	⅝	Flat
11	.32	⅝	1½	⅝	Round
12	.32	⅝	1¼	⅝	Flat
13	.32	⅝	1½	⅝	Flat
14	.36	⅝	1⅞	½	Flat
15	.40	⅝	1⅞	⅝	Flat
16	.40	⅝	1⅞	⅝	Flat
17	.40	⅝	1⅞	½	Round
18	.40	⅝	1⅞	½	Flat
19	.45	⅝	1¼	½	Flat
20	.55	⅝	1	½	Flat
21	.60	⅝	2⅞	⅝	Flat
22	.65	½	1½	⅝	Flat
23	.65	½	1¼	⅝	Flat
24	.70	½	1½	⅝	Flat
25	.80	⅝	1½	¾	Round



## Improved Tiller Rope Pulley

SWIVEL TYPE—WITH STRAP  
FORGED BRONZE—MICARTA SHEAVE



PATENTED

Fig. 585

Light in weight but very strong, the micarta sheave is well known for its ability to withstand shock and is impervious to salt water. It has sleeve bearings for smooth operation. The swivel eye is free turning and patented.

Dull Bronze Each	For Diam. Rope Inches	Length Overall Inches	Diam. Sheave Inches	Length Strap Inches	Weight Ounces
\$1.50	$\frac{5}{16}$	3 $\frac{3}{8}$	1 $\frac{7}{8}$	1 $\frac{7}{8}$	3

Note: Supplied with bronze sheave if desired, same price as above. Please specify.

## Lightweight Tiller Rope Pulleys

BRASS BODY AND SHEAVE  
FORGED BRONZE STRAP



Fig. 591

No.	Dull Brass Each	For Diam. Rope Inches	Length Overall Inches	Size Sheave Inches	Length Strap Inches	Wt. Ozs.
0	\$1.45	$\frac{1}{4}$ - $\frac{5}{16}$	2	1 $\frac{1}{8}$ x $\frac{1}{8}$	1 $\frac{7}{8}$	2 $\frac{1}{2}$
1	2.15	$\frac{3}{8}$	2 $\frac{1}{2}$	1 $\frac{3}{8}$ x $\frac{1}{2}$	2 $\frac{1}{4}$	4 $\frac{1}{2}$

## Tiller Rope Pulley

WITH STRAP—FORGED BRONZE



Fig. 579

For Rope Diam. Inches	Length Pulley Inches	Size Sheave Inches	Length Strap Inches	Weight Ounces
$\frac{5}{16}$	1 $\frac{5}{8}$	$\frac{3}{4}$ x $\frac{1}{8}$	1 $\frac{7}{8}$	3
Dull Bronze Each		Polished Bronze Each	Chromium Plated Each	
\$1.35		\$1.60	\$2.50	

## Tiller Rope Guides

FORGED BRONZE



Upright Fig. 593

Fig.	Dull Bronze Each	Pol. Bronze Each	Chrom. Plated Each
593	\$1.00	1.10	\$1.85
594	.95	1.05	1.80



Side Fig. 594

For Rope Diam. Inches	Size Base Inches	Wt. Ozs.
$\frac{1}{8}$	$\frac{7}{8}$ x 1 $\frac{1}{2}$	2
$\frac{5}{16}$	$\frac{3}{4}$ x 2	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	$\frac{1}{2}$	1 $\frac{1}{2}$
3	.50	.70	1.25	2.75	$\frac{3}{8}$	1 $\frac{1}{4}$

## Tiller Rope Guides

BRONZE



Fig. 359

No.	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Size Hole Inches	Size Base Inches
1	\$.30	\$.55	\$1.00	$\frac{3}{8}$	1 $\frac{3}{8}$ x $\frac{3}{4}$
2	.35	.60	1.20	$\frac{1}{2}$	1 $\frac{1}{2}$ x $\frac{3}{8}$
3	.40	.70	1.40	$\frac{3}{8}$	1 $\frac{3}{4}$ x 1 $\frac{1}{4}$

No. 1 size is forged bronze.

## Tiller Rope Guides

GALVANIZED CAST IRON OR BRONZE  
OVAL PLATE



Fig. 599

No.	Galv. Iron Each	Plain Bronze Each	Pol. Bronze Each	Chromium Plated Each	Size Hole Inches	Size Base Inches
1	\$.18	\$.30	\$.55	\$1.00	$\frac{3}{8}$	1 $\frac{3}{8}$ x $\frac{7}{8}$
2	.20	.35	.60	1.10	$\frac{1}{2}$	1 $\frac{1}{2}$ x $\frac{3}{8}$
3	.25	.40	.65	1.30	$\frac{3}{8}$	1 $\frac{3}{4}$ x 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 Fig. 43	Galv. Each Fig. 54	Plain Bronze Each	Pol. Bronze Each	For Rope Diam. Inches	Size Sheaves Inches	Wt. Each Lbs.
1	\$0.28	\$0.30	\$0.40	\$0.70	$\frac{3}{16}$	$\frac{3}{4} \times \frac{5}{16}$	$\frac{3}{16}$
3	.36	.40	.46	.90	$\frac{1}{4}$	$1 \times \frac{3}{8}$	$\frac{3}{16}$
5	.55	.60	.80	1.30	$\frac{5}{16}$	$1\frac{1}{4} \times \frac{1}{2}$	$\frac{1}{4}$
7	.70	.75	.90	1.50	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$	$\frac{3}{8}$
9	.90	.95	1.40		$\frac{1}{2}$	$1\frac{3}{4} \times \frac{1}{2}$	$\frac{1}{2}$
11	1.30	1.40	1.80		$\frac{1}{2}$	$2 \times \frac{5}{8}$	$\frac{5}{8}$
13	2.10	2.25			$\frac{5}{8}$	$2\frac{1}{2} \times \frac{3}{4}$	$1\frac{1}{8}$
15	3.15	3.30			$\frac{3}{4}$	$3 \times \frac{7}{8}$	$1\frac{5}{8}$

NOTE—Blocks with becket supplied only in galvanized.

## Loose Hook Blocks

GALVANIZED MALLEABLE IRON BODY  
FORGED STEEL HOOKS  
SINGLE

Without Becket



Fig. 52

With Becket



Fig. 56

Size No.	Galv. Each Fig. 52	Galv. Each Fig. 56	Length of Shell Inches	For Rope Diameter Inches	Weight Each Pounds
1	\$1.40	\$1.50	$1\frac{1}{2}$	$\frac{3}{16}$	$\frac{3}{16}$
3	1.45	1.55	$1\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{4}$
5	1.55	1.60	2	$\frac{5}{16}$	$\frac{5}{16}$
7	1.75	1.85	$2\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$
9	2.30	2.40	3	$\frac{1}{2}$	$\frac{3}{8}$
11	3.10	3.25	$3\frac{1}{4}$	$\frac{1}{2}$	1
13	4.00	4.15	4	$\frac{5}{8}$	$2\frac{1}{4}$
15	5.75	6.00	$4\frac{3}{8}$	$\frac{3}{4}$	$2\frac{1}{2}$

Size of Sheave same as Fig. 43.

## Fast Eye Blocks

GALVANIZED MALLEABLE IRON OR BRONZE  
DOUBLE

Without Becket



Fig. 51

With Becket

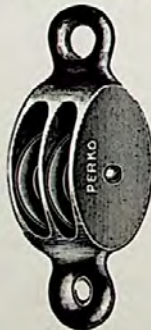


Fig. 55

Size No.	Galv. Each Fig. 51	Galv. Each Fig. 55	Plain Bronze Each	Pol. Bronze Each	For Rope Diam. Inches	Size Sheaves Inches	Wt. Each Lbs.
2	\$0.36	\$0.40	\$0.60	\$1.20	$\frac{3}{16}$	$\frac{3}{4} \times \frac{5}{16}$	$\frac{3}{16}$
4	.55	.60	.85	1.65	$\frac{1}{4}$	$1 \times \frac{3}{8}$	$\frac{1}{4}$
6	.85	.95	1.30	2.40	$\frac{5}{16}$	$1\frac{1}{4} \times \frac{1}{2}$	$\frac{3}{8}$
8	1.00	1.10	1.60	3.45	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$	$\frac{5}{8}$
10	1.40	1.50			$\frac{1}{2}$	$1\frac{3}{4} \times \frac{1}{2}$	$\frac{3}{4}$
12	1.85	2.00			$\frac{1}{2}$	$2 \times \frac{5}{8}$	$1\frac{1}{4}$
14	2.90	3.10			$\frac{5}{8}$	$2\frac{1}{2} \times \frac{3}{4}$	$2\frac{1}{8}$
16	4.35	4.50			$\frac{3}{4}$	$3 \times \frac{7}{8}$	$2\frac{3}{4}$

NOTE—Blocks with becket supplied only in galvanized.

## Loose Hook Blocks

GALVANIZED MALLEABLE IRON  
DOUBLE

Without Becket



Fig. 53

With Becket



Fig. 58

Size No.	Galv. Each Fig. 53	Galv. Each Fig. 58	Length of Shell Inches	For Rope Diameter Inches	Weight Each Pounds
2	\$1.55	\$1.60	$1\frac{1}{2}$	$\frac{3}{16}$	$\frac{1}{4}$
4	1.75	1.85	$1\frac{3}{8}$	$\frac{1}{4}$	$\frac{3}{8}$
6	2.00	2.15	2	$\frac{5}{16}$	$\frac{1}{2}$
8	2.20	2.30	$2\frac{3}{8}$	$\frac{3}{8}$	$\frac{7}{8}$
10	2.85	3.05	3	$\frac{1}{2}$	1
12	3.75	3.90	$3\frac{1}{4}$	$\frac{1}{2}$	$1\frac{1}{2}$
14	5.10	5.35	4	$\frac{5}{8}$	$2\frac{1}{2}$
16	7.15	7.50	$4\frac{3}{8}$	$\frac{3}{4}$	$3\frac{3}{4}$

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	$\frac{1}{8}$	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	$\frac{1}{4}$	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	\$ .35	\$ .90	\$1.50
1	.45	.95	1.55
3	.60	1.25	1.75
5	.80	1.55	2.20
7	.95	1.75	2.80

## 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  $\frac{3}{4}$  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

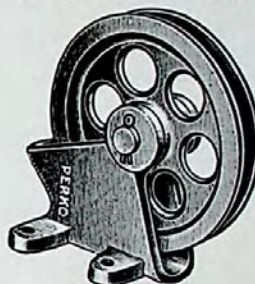


Fig. 963

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 $\frac{1}{2}$

## 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	$\frac{1}{8}$	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	$\frac{1}{4}$	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	\$ .60	\$1.25	\$1.75
2	.65	1.35	1.90
4	.85	1.75	2.50
6	1.00	3.50	4.20
8	1.70	4.50	5.75

## 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	$\frac{3}{4} \times 2 \frac{1}{8}$	$\frac{1}{4}$	1 $\frac{3}{8}$
2	.45	.90	$\frac{1}{2} \times 2 \frac{1}{8}$	$\frac{1}{8}$	2
3	.55	1.15	1 $\times 3 \frac{3}{8}$	$\frac{3}{8}$	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	\$1.05	\$2.10	\$3.15	$\frac{1}{4}$	Swivel Eye	20
5	1.20	2.50	3.60	$\frac{1}{8}$	Swivel Eye	35
7	1.70	2.80	4.15	$\frac{3}{8}$	Swivel Eye	66
9	2.15			$\frac{1}{2}$	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	\$ .50	\$ .40	\$ .90	\$ 1.40	$\frac{5}{8}$	1 1/4 x 3/8
1	.70	.45	1.10	1.70	3/8	1 1/2 x 1/2
3	1.20	.70	1.80	2.85	1/2	2 x 3/8
5	2.00	1.30	3.60	4.75	5/8	2 1/2 x 3/4
7	3.00	2.15	4.95	6.60	3/4	3 x 7/8

Cast iron furnished unless otherwise specified.

**Deck Blocks**  
OPEN PATTERN  
GALVANIZED IRON OR BRONZE  
DOUBLE

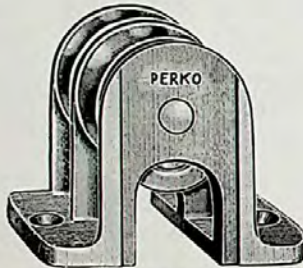


Fig. 88

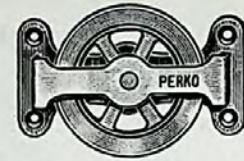
Size No.	Mall. Iron Each	Cast Iron Each	Plain Bronze Each	Pol. Bronze Each	For Diam. Rope Inches	Size Sheave Inches
2	\$ 1.20	\$ .80	\$ 1.75	\$ 2.75	3/8	1 1/2 x 1/2
4	2.20	1.55	3.65	4.75	1/2	2 x 3/8
6	3.85	2.80			5/8	2 1/2 x 3/4
8	5.25	3.95			3/4	3 x 7/8

Cast iron furnished unless otherwise specified.

**Bell Chain Leaders**  
CAST BRONZE—PLAIN



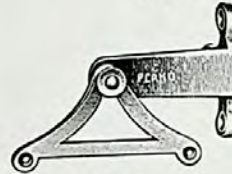
Upright Type—  
Fig. 912



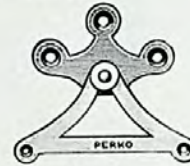
Flat Type—  
Fig. 913

Diam. Sheave Inches	Width of Groove Inches	Single Sheave Each	Double Sheave Each	Triple Sheave Each	Quadruple Sheave Each
2	$\frac{1}{8}$	\$ 2.00	\$ 3.20	\$ 7.25	\$ 6.50
3 1/2	$\frac{1}{8}$	4.00	6.00	8.00	10.00

**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	\$ 1.75	\$ 1.60	3
2	2.15	1.90	3 1/4
3	2.85	2.65	3 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
\$.80	3/4	3/16	3/8	3 1/2

**Cheek Blocks**  
GALVANIZED MALLEABLE IRON OR BRONZE  
SINGLE



Fig. 95

Size No.	Galy. Each	Plain Bronze Each	Pol. Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Wgt. Lbs.
0	\$ .65	\$ .85	\$ 1.25	1/4	1 x 3/8	1/4
1	.85	1.05	1.50	3/8	1 3/8 x 1/2	1/4
2	.95	1.20	1.80	1/2	1 1/2 x 1/2	3/8
3	1.80	1.90	2.85	5/8	2 x 3/8	3/4
4	2.25	2.75	3.85	3/4	2 1/2 x 3/4	1 1/4
5	3.60			7/8	3 x 7/8	2
6	6.25			1	3 1/2 x 1	4

**Cheek Blocks**  
GALVANIZED MALLEABLE IRON OR BRONZE  
DOUBLE



Fig. 96

Size No.	Galy. Each	Plain Bronze Each	Pol. Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Wgt. Lbs.
11	\$ 1.50	\$ 2.00	\$ 2.50	1/2	1 3/8 x 1/2	1/2
12	1.90	3.00	3.00	3/8	1 1/2 x 1/2	1 1/4
13	2.95	4.50	5.00	1/2	2 x 3/8	1 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	\$1.05	\$1.65	$\frac{1}{4}$ - $\frac{5}{16}$	$1\frac{1}{8}$ x $\frac{1}{8}$	$\frac{5}{8}$
2	1.85	3.00	$\frac{3}{8}$	3 x $\frac{1}{8}$	1 $\frac{3}{8}$
3	4.30	5.25	$\frac{1}{2}$	4 x $\frac{3}{8}$	3
3 1/2	5.20		$\frac{1}{2}$	4 1/2 x $\frac{3}{4}$	4 1/4
4	6.00		$\frac{3}{8}$	5 x $\frac{1}{8}$	5 1/4
5	8.75		$\frac{3}{4}$	6 x 1	8 1/2

### 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	\$1.40	\$2.65	$\frac{1}{4}$	2 1/2 x 3/8	1/2
2	2.00	3.00	1/4	3 1/4 x 1/2	1 1/4
3	3.30	5.25	$\frac{1}{2}$ - $\frac{3}{8}$	4 1/2 x 1/2	2 3/8

### 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	\$1.40	\$2.65	$\frac{1}{4}$	2 1/2 x 3/8	3/8
20	2.00	3.00	1/4	3 1/4 x 1/2	1 1/2
30	3.30	5.25	$\frac{1}{2}$ - $\frac{3}{8}$	4 1/2 x 1/2	2 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	\$ .95	\$1.70	$\frac{1}{4}$ - $\frac{1}{8}$	$1\frac{1}{8}$ x $\frac{1}{8}$	$\frac{5}{8}$
2	1.50	3.10	$\frac{3}{8}$	3 x $\frac{1}{8}$	1 $\frac{3}{8}$
3	2.70	5.50	$\frac{1}{2}$	4 x $\frac{3}{8}$	2 $\frac{3}{4}$
3 1/2	3.50		$\frac{1}{2}$	4 1/2 x $\frac{3}{4}$	4 1/4
4	4.20		$\frac{3}{8}$	4 x $\frac{3}{8}$	5 1/4
5	7.50		$\frac{3}{4}$	6 x 1	11

### Wire Rope Pulleys

GALVANIZED MALLEABLE IRON OR BRONZE

DOUBLE—SIDE PATTERN



Fig. 195

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
11	\$2.20	\$3.85	$\frac{1}{4}$	2 1/2 x 3/8	1 1/8
12	3.00	4.50	1/4	3 1/4 x 1/2	2
13	5.50	7.25	$\frac{1}{2}$ - $\frac{3}{8}$	4 1/2 x 1/2	4 1/4

### 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	\$2.20	\$3.85	$\frac{1}{4}$	2 1/2 x 3/8	1 1/8
120	3.00	4.50	1/4	3 1/4 x 1/2	2
130	5.50	7.25	$\frac{1}{2}$ - $\frac{3}{8}$	4 1/2 x 1/2	4 1/4





## BRONZE BLOCKS FOR SAIL BOATS

FORGED BRONZE SHELLS AND SHEAVES—PLAIN BUSHED—INTERCHANGEABLE FITTINGS

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

Size No.	NO FITTINGS		For Diam. Rope Inches	Weight Ounces
	Plain Each	Polished Each		
0	\$1.95	\$2.15	$\frac{1}{4}$ - $\frac{1}{8}$	3 1/2
1	2.55	2.85	$\frac{3}{8}$	4 1/2
2	3.60	4.00	$\frac{1}{2}$	10

Size No.	Length Overall Inches	Size of Sheave Inches
	0	2 1/8
1	2 3/8	1 3/8 x 1 1/2
2	3 1/4	1 7/8 x 3/8

### Front Shackle Block



Fig. 851

SINGLE ONLY

Size No.	Complete		Shackle with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$3.35	\$3.60	\$1.25	\$1.45
1	4.10	4.50	1.45	1.65
2	5.50	6.00	1.75	2.00

For dimensions and other data, see Fig. 850.

For shackles only, see Fig. 893.

### Upset Front Shackle Block



Fig. 852

SINGLE ONLY

Size No.	Complete		Shackle with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$3.35	\$3.60	\$1.25	\$1.45
1	4.10	4.50	1.45	1.65
2	5.50	6.00	1.75	2.00

For dimensions and other data, see Fig. 850.

For shackles only, see Fig. 893.

### Upset Side Shackle Block



Fig. 855

SINGLE ONLY

Size No.	Complete		Shackle with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$3.35	\$3.60	\$1.25	\$1.45
1	4.10	4.50	1.45	1.65
2	5.50	6.00	1.75	2.00

For dimensions and other data, see Fig. 850.

For shackles only, see Fig. 893.

### Side Shackle Block



Fig. 854

SINGLE ONLY

Size No.	Complete		Shackle with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$3.35	\$3.60	\$1.25	\$1.45
1	4.10	4.50	1.45	1.65
2	5.50	6.00	1.75	2.00

For dimensions and other data, see Fig. 850.

For shackles only, see Fig. 893.

### Side Snap Shackle Block



Fig. 857

SINGLE ONLY

Size No.	Complete Polished Each	Polished Shackle with Link Each
0	\$5.50	\$3.85
1	6.60	4.75

For dimensions and other data, see Fig. 850.

### Block With Eye Strap



Fig. 861

SINGLE ONLY

Size No.	Complete		Strap with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$3.35	\$3.60	\$1.25	\$1.45
1	4.10	4.50	1.45	1.65
2	5.50	6.00	1.75	2.00

For dimensions and other data, see Fig. 850.

For straps only, see Fig. 881.

### Swivel Deck Leader

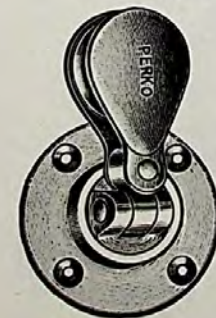


Fig. 864

SINGLE ONLY

Size No.	Complete		Base with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$6.00	\$6.90	\$4.10	\$4.55
1	7.15	8.00	4.40	5.00
2	10.00	11.00	6.00	6.75

Size No.	Diam. Base Inches	Weight Pounds
0	2 1/4	1/2
1	2 3/4	3/4
2	3 1/4	1 1/2





### Lightweight Block

WITH FRONT SHACKLE  
SINGLE ONLY—FOR MANILA ROPE



Fig. 432

No.	Plain Each	For Diam. Rope Inches	Size Sheave Inches	Weight Ounces
0	\$1.75	$\frac{1}{4}$ - $\frac{1}{8}$	$1\frac{1}{8} \times \frac{1}{4}$	3
1	2.50	$\frac{3}{8}$	$1\frac{3}{8} \times \frac{1}{2}$	5

### Swivel Eye Bullet Blocks

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

### Bullet Blocks

FOR JIB SHEETS AND LEADERS  
FORGED BRONZE



Fig. 869

No.	Dull Finish Each	Polished Each	For Rope Diam. Inches	Size Sheave Inches	Weight Ounces
0	\$1.10	\$1.35	$\frac{1}{4}$	$\frac{3}{4} \times \frac{1}{4}$	2
1	1.20	1.65	$\frac{3}{8}$	$\frac{7}{8} \times \frac{1}{2}$	$2\frac{1}{2}$
2	1.55	2.00	$\frac{1}{2}$	$1\frac{1}{8} \times \frac{5}{8}$	5

### Swivel Eye Block on Plate

FORGED BRONZE

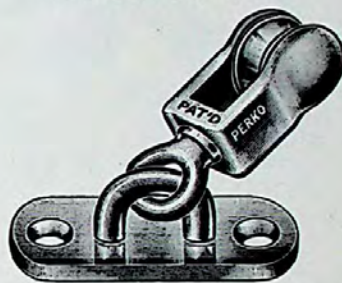


Fig. 935

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
\$2.20	$2\frac{1}{4}$	$\frac{3}{4}$	$3\frac{1}{2}$

### Jib Halyard Blocks on Strap

FORGED BRONZE BLOCK—CAST BRONZE STRAP



Fig. 899

No.	Plain Each	For Rope Diam. Inches	Size Sheave Inches	Length Strap Inches	Weight Ounces
0	\$1.60	$\frac{1}{4}$	$\frac{3}{4} \times \frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{2}$
1	2.00	$\frac{3}{8}$	$\frac{7}{8} \times \frac{1}{2}$	$2\frac{1}{2}$	4

### Swivel Eye Block on Slide

FORGED BRONZE

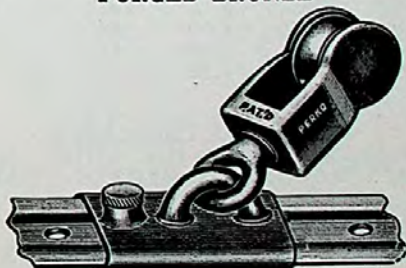


Fig. 936

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  $\frac{5}{8}$  inch nickel silver track.

Plain Each	Length Slide Inches	Width Slide Inches	Weight Complete Ounces
\$3.50	$1\frac{1}{4}$	1	$7\frac{1}{2}$

Without track, deduct \$.50 each.



## Centerboard Blocks

GALVANIZED CAST IRON OR BRONZE



Fig. 827

No.	Galv. Each	Plain Bronze Each	Size Rope Inches	Size Sheave Inches	Weight Pounds
1	\$1.00	\$1.80	3/8	1 1/2 x 1/2	3/4
2	1.80	3.00	1/2	2 x 3/8	1 1/2

## Outhaul Cheek Blocks

CAST BRONZE—PLAIN  
FOR COTTON OR WIRE ROPE



Fig. 885



Fig. 886

Fig.	Each	For Rope Size Inches	Size Sheave Inches	Weight Ounces
885	\$.55	1/4 Cotton	3/4 x 1/8	1 1/2
886	.95	1/8 Wire	1 1/4 x 1/4	3 1/2

## Block Shackles

FORGED BRONZE



Fig. 893

No.	Size Inches	Plain Each	Pol. Each	Length Inside Inches	Width Inside Inches	Wt. Ozs.
0	1/8	\$.60	\$.90	1 1/8	1/8	1/2
1	1/4	.70	1.00	1 1/8	1/4	1
2	3/8	.80	1.20	1 1/4	3/8	1 1/2

## Halyard Shackles

CAST MANGANESE BRONZE—PLAIN



Fig. 887

Size Inches	Each	Diam. Pin Inches	Length Inside Inches	Width Inside Inches	Weight Ounces
1/4	\$1.50	1/8	1 3/8	3/8	2 1/2

## Fast Eye Snap Shackles

CAST BRONZE—PLAIN



Fig. 873

No.	Each	For Diam. Rope Inches	I. D. Eye Inches	Length Inside Inches	Width Inside Inches	Wt. Ozs.
0	\$2.75	1/4	3/8	1 1/8	3/8	1 3/4
1	3.00	1/8 - 3/8	1/2	3/4	1 1/8	3 1/2
2	3.75	1/8 - 1/2	3/4	1 1/4	1 1/8	7 1/2

## Swivel Eye Snap Shackles

CAST BRONZE—PLAIN

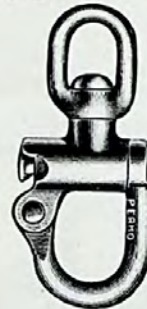


Fig. 874

No.	Each	For Diam. Rope Inches	I. D. Eye Inches	Length Inside Inches	Width Inside Inches	Wt. Ozs.
0	\$4.25	1/4	3/8	1 1/8	3/8	2 1/2
1	5.00	1/8 - 3/8	1/2	3/4	1 1/8	5 1/2
2	5.75	1/8 - 1/2	3/4	1 1/4	1 1/8	9

## Headboard Snap Shackles

CAST BRONZE—PLAIN



Fig. 875

No.	Each	Length Inside Inches	Width Inside Inches	O. D. Pin Housing Inches	Wt. Ozs.
1	\$2.00	1	3/4	1/2	3 1/2
2	2.75	1 3/8	1 1/8	3/8	6 1/2

## Improved Headboard Snap Shackles

CAST BRONZE—PLAIN



Fig. 876

No.	Each	I. D. Eye Inches	Length Inside Inches	Width Inside Inches	O. D. Pin Housing Inches	Wt. Ozs.
1	\$3.25	1/2	3/8	3/8	1/8	3
2	4.00	3/4	3/8	1 1/8	3/8	7





**Eye Plates**  
CAST BRONZE



Fig. 880

No.	Plain Each	Length Plate Inches	Opening of Eye Inches	Stock in Eye Inches
1	\$ .90	3 1/8	1 1/8 x 3/4	5/16
2	1.50	3 1/2	1 1/2 x 7/8	1 1/4

**Eye Straps**  
FORGED BRONZE



Fig. 881

No.	Plain Each	Polished Each	Length Inches	Size Eye Inches	Stock in Eye Inches
0	\$ .25	\$ .50	1 7/8	5/8	3/8
1	.30	.60	2 1/4	3/4	1/4
2	.40	.80	2 3/4	1/2	1/8
3	.55	1.00	3 1/8	3/8	1/8

**Deck Straps**  
CAST BRONZE



Fig. 882

No.	Plain Each	Polished Each	Length Inches	Size Eye Inches	Stock in Eye Inches
1	\$ .50	\$ .90	3 1/2	1/2	5/16
2	.80	1.25	4 1/4	5/8	3/8
3	1.00	1.60	4 3/4	5/8	1/2

**Flange Eyes**  
CAST BRONZE



Fig. 877

Size No.	Plain Bronze Each	Polished Bronze Each	Size Opening Inches	Size Base Inches
1	\$ .30	\$ .60	3/8	2 1/8 x 1 1/8
2	.50	.80	3/4	2 1/4 x 1 3/8

**Inclinometer**

ZINC ALLOY—CHROMIUM PLATED



Fig. 29

Instantly indicates the degree of heel. Complete with chromium plated screws.

Each	Width Inches	Height Inches	Weight Ounces
\$2.50	5	3	4

**Halyard Fairleaders**  
CAST BRONZE



Fig. 580

Designed for main halyards on small boats this fitting has many other uses. Will not chafe rope.

Emery Finish Each	Length Inches	Width Inches	For Diam. Rope Inches	Weight Ounces
\$ .75	2 1/4	3/4	3/8	2 1/2

**Single Flare Lip Leaders**  
CAST BRONZE



Fig. 764

No.	Plain Each	Small Opening Inches	Weight Ounces
1	\$ .30	1/2	1 1/2
2	.40	3/8	3

**Double Flare Lip Leaders**  
CAST BRONZE



Fig. 889

No.	Plain Each	Opening Inches	Weight Ounces
0	\$ .40	3/8	3/4
1	.50	1/2	1
2	.70	5/8	1 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
\$1.75	1 3/8	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	\$6.00	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

## New Quick Acting Cleat

(PATENT APPLIED FOR)  
BRONZE



Fig. 924

Line is secured by bringing it around bottom half of cleat for a half turn, then around the top half, giving it a slight tug.

The tighter the pull, the tighter it holds.

No teeth or serrations to chew the line.

No delay in belaying or paying out line.

Plain Each	Polished Each	Chrom. Plated Each	Diam. Base Inches	Height Inches	For Diam. Rope Inches	Wt. Ozs.
\$6.75	\$7.75	\$8.75	2 3/4	1 3/8	Up to 5/8	15

## Sheet Snubbing Winches

CAST BRONZE



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	\$6.00	\$9.00	2 1/8	1	2 1/8	1
01	7.50	10.50	2 3/4	1 1/4	2 1/8	1 3/4

## Ratchet Winches

POLISHED BRONZE—TOP ACTION



Fig. 800

Handle is removable but firmly held into winch by snap action socket. Winch has double ratchet. Power ratio about 8 to 1.

No.	Complete Each	Handle Only Each	For Diam. Rope Inches	Height Inches	Diam. Base Inches	Wt. Lbs.
1	\$22.00	\$4.95	3/8	2 3/4	3 1/2	3
2	30.80	6.05	1/2	3	4 1/4	6



## Stemhead Plate

CAST BRONZE—STREAMLINED



Fig. 343

Angle is 70 degrees.

Length Strap Inches	Extreme Width Inches	Diam. Center Hole Inches	Diam. Forward Hole Inches	Weight Ounces
3 3/8	1	1/8	3/4	8
Plain Bronze Each		Polished Bronze Each		Chromium Plated Each
\$1.65		\$2.50		\$3.85

## 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 inches	I. D. Eye Inches	Wt. Ozs.
1	\$.65	\$1.10	\$1.60	3/8	1 3/4	3/4	3 1/2
2	.85	1.40	2.00	1/2	2 3/8	7/8	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 1/2 inch rigging. A set consists of fittings for port and starboard. Illustration shows 1/2 set.

Plain Per Set	Pol. Per Set	Length Inches	Base Inches	For Rigging Inches	Weight Pounds
\$10.00	\$15.00	12 1/4	3 1/4 x 2	up to 1/2	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, 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	\$3.00	6 1/2 x 3	6 1/2	2 1/2
2	3.25	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	\$3.50	6 1/2 x 3	6 1/2	3
6	3.85	9 1/4 x 4 1/2	7 3/4	5

## Snipe Centerboards

GALVANIZED IRON



Fig. 134

Each	Size Inches	Weight Pounds
\$17.00	36 x 21 x 1/8	36





### Bronze Goosenecks

CAST BRONZE—PLAIN



Fig. 883

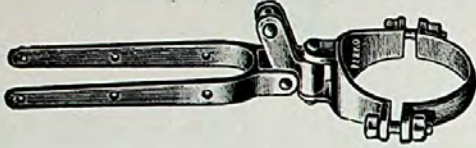


Fig. 884

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  
CAST BRONZE—PLAIN

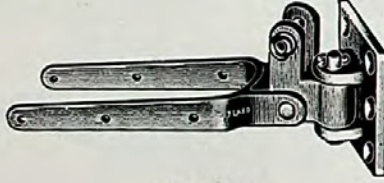


Fig. 1034

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 Plate Inches	Length 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
\$3.00	\$1.50	1 1/2	1 to 1 1/2	1

When ordering, specify whether for square or round mast.

### Sliding Adjustable Gooseneck

CAST MANGANESE BRONZE

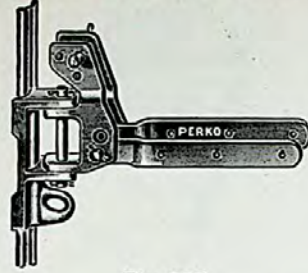


Fig. 915

Has three positions for tack of sail, two positions for boom. Ideal and universal for most small boats. Will accommodate booms up to 1 1/4 inch thick if necessary.

Each	For Track Inches	For Boom Thickness Inches	Length Inside Straps Inches	Weight Ounces
\$4.25	3/8	3/4 or 7/8	4 3/4	12

### Sliding Gooseneck

NATIONAL ONE DESIGN CLASS  
BRONZE

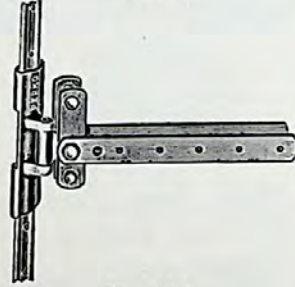


Fig. 452

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

### 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
\$2.75	2 3/4	3 3/4	3/8	6





### Lightweight Sliding Goosenecks

CAST BRONZE—PLAIN

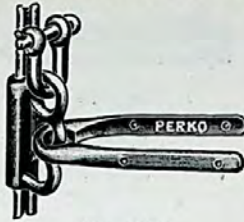


Fig. 916

Straps are adjustable for booms of various thickness. Track not included.

Each	For Track Inches	For Boom Thickness Inches	Length Inside Straps Inches	Weight Ounces
\$3.00	$\frac{3}{8}$	up to $1\frac{1}{2}$	$3\frac{1}{2}$	8

### Clew Outhaul

CAST BRONZE—PLAIN

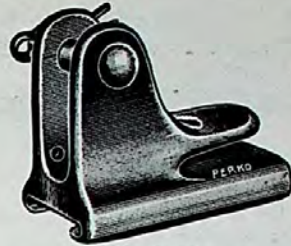


Fig. 1047

Each	For Track Inches	Jaw Opening Inches	Length Inches	Height Inches	Weight Ounces
\$1.75	$\frac{3}{8}$	$\frac{3}{8}$	$1\frac{3}{4}$	$1\frac{1}{2}$	$3\frac{1}{2}$

### Snap Action Clew Outhauls

CAST BRONZE—PLAIN



Fig. 871

Has snap action bolt for clew of sail. Track not included.

No.	Each	For Sail Area Sq. Feet	For Track Inches	Length Overall Inches	Weight Ounces
0	\$3.75	75	$\frac{5}{8}$	2	4
1	4.50	125	$\frac{3}{8}$	3	8

### Boom Travelers

CAST BRONZE—PLAIN

FOR MAIN SHEET BLOCKS ON BOOMS



Fig. 1112  
For Wide Booms



Fig. 1113  
For T Booms

Fig.	Each	For Boom Thickness Inches	Weight Ounces
1112	\$.65	$1\frac{1}{2}$ to $1\frac{3}{4}$	$2\frac{1}{2}$
1113	.50	$\frac{3}{4}$ to 1	$1\frac{1}{2}$

### Self Locking Clew Outhaul

CAST BRONZE

INSTANT RELEASE—LIGHTWEIGHT  
FOR SMALL BOATS

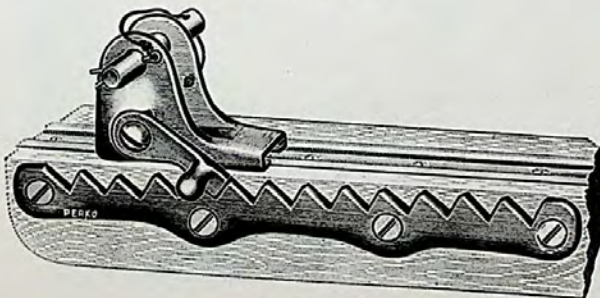


Fig. 817

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
\$5.50	\$2.00	$\frac{3}{8}$	10	$2\frac{1}{2}$	10

### Boom Travelers

CAST BRONZE—FOR ROUND BOOMS



Fig. 878

Diam. Boom Inches	Plain Each	Width of Plate Inches	Weight Ounces
2	\$1.50	$1\frac{1}{4}$	3
$2\frac{1}{2}$	1.75	$1\frac{1}{2}$	4
3	2.00	$1\frac{3}{8}$	7

### Snipe Travelers

GALVANIZED IRON OR BRASS



Fig. 271

Galv. Each	Plain Brass Each	Size Inches	Height Above Deck Inches	Weight Pounds
\$1.75	\$2.50	$\frac{3}{8} \times 18$	6	$1\frac{1}{2}$





## 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.

$\frac{3}{8}$  inch, weight 5 oz. Approx. strength 5,000 lbs.

Size Thread Inches	Plain Each	Length Pin to Pin		Jaw Opening Inches	Diam. Pin Inches
		Open Inches	Closed Inches		
$\frac{1}{4}$	\$2.50	7 $\frac{1}{2}$	5 $\frac{1}{8}$	$\frac{1}{8}$	$\frac{3}{32}$
$\frac{3}{8}$	3.25	9 $\frac{1}{2}$	6	$\frac{1}{4}$	$\frac{1}{4}$

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
$\frac{1}{4}$	\$2.25	\$.25	$\frac{1}{8}$	$\frac{1}{4}$
$\frac{3}{8}$	3.50	.25	$\frac{1}{4}$	$\frac{3}{8}$
$\frac{1}{2}$	5.25	.30	$\frac{3}{8}$	$\frac{3}{4}$
$\frac{3}{4}$	7.50	.45	$\frac{1}{2}$	1 $\frac{1}{2}$
$\frac{1}{2}$	9.50	.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
$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	10 $\frac{3}{8}$	7 $\frac{1}{4}$	4200
$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	12 $\frac{1}{4}$	8 $\frac{1}{2}$	6900
$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	14 $\frac{1}{2}$	10 $\frac{1}{4}$	11000
$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{8}$	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	$\frac{1}{4}$	5	$\frac{1}{4}$	6

## Small Boat Chain Plates

CAST BRONZE



Fig. 629

Plain Each	Length Inches	Thickness Inches	Weight Ounces
\$1.20	6	$\frac{1}{4}$	7

## "Snipe" Chain Plates

BRASS



Fig. 143

No.	Plain Brass Each	Polished Brass Each	Dimensions Inches	Diameter Pin Hole Inches	Weight Ounces
1	\$.55	\$.85	7 x 1 x $\frac{1}{8}$	$\frac{3}{8}$	4
2	.85	1.35	10 $\frac{1}{2}$ x 1 x $\frac{1}{8}$	$\frac{3}{8}$	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	\$.45	\$1.90	$\frac{3}{4}$ x $\frac{1}{4}$
6	.55	2.35	1 x $\frac{1}{4}$
8	.70	2.85	1 $\frac{1}{8}$ x $\frac{1}{4}$
10	1.50		1 $\frac{1}{8}$ x $\frac{1}{4}$
12	1.65		1 $\frac{1}{8}$ x $\frac{1}{4}$
14	2.00		1 $\frac{1}{8}$ x $\frac{1}{4}$
18	2.90		1 $\frac{1}{8}$ x $\frac{1}{4}$

## Foot Rope Plates

GALV. FORGED STEEL OR 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
3	\$.55		$\frac{3}{4}$ x $\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{4}$
4	.65	\$1.70	$\frac{1}{8}$ x $\frac{1}{4}$	$\frac{5}{8}$	$\frac{1}{4}$	$\frac{3}{8}$
5	.75	1.95	1 x $\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{4}$	$\frac{1}{2}$
6	.95	2.25	1 x $\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{4}$	$\frac{3}{4}$
8	1.25		1 $\frac{1}{4}$ x $\frac{1}{4}$	1	$\frac{3}{8}$	1
10	1.85		1 $\frac{1}{2}$ x $\frac{3}{8}$	1 $\frac{1}{8}$	$\frac{1}{2}$	1 $\frac{1}{2}$





### 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
\$ .80	$\frac{1}{8}$ - $\frac{3}{8}$	4	$\frac{7}{8}$	2 1/2

### "Snipe" Stay Tangs

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 Rope Diam. Inches	Size Straps Inches	Diam. Bolt Inches	For Wood Thick-ness Inches	Wt. Each Lbs.
47	\$ .85	$\frac{3}{8}$	$\frac{3}{4} \times 4$	$\frac{1}{4}$	2	$\frac{1}{8}$
57	1.40	$\frac{1}{2}$	$\frac{3}{4} \times 4$	$\frac{1}{4}$	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	\$ .70	2 1/2 x 1 1/4	2 1/2
3	.85	3 3/8 x 1 3/8	4
4	1.10	4 x 1 7/8	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)
$\frac{3}{8}$	\$ .75	\$2.65	3	8	$\frac{3}{8}$
$\frac{1}{2}$	1.20	3.30	3 3/8	9 1/2	$\frac{3}{4}$
$\frac{5}{8}$	1.50	4.50	3 3/4	10 1/4	1
$\frac{3}{4}$	1.80	5.70	4 1/4	11	1 3/4

### Bronze Eye Bands

CAST BRONZE—4 EYE



Fig. 253

Inside Diam. Inches	Plain Bronze Each	Width Inches	Diam. Holes Inches	Weight Pounds
1 1/2	\$1.85	3/4	1/4	1/2
1 3/4	1.95	3/4	1/4	3/8
2	2.00	3/4	1/4	3/4
2 1/4	2.15	3/4	3/8	1
2 1/2	2.25	3/4	3/8	

### 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	\$1.95	\$2.30	\$2.65	\$3.00
1 1/2	2.00	2.40	2.75	3.10
1 3/4	2.30	2.65	3.00	3.40
2	2.40	2.75	3.10	3.50
2 1/4	2.55	2.85	3.20	3.55
2 1/2	2.65	3.00	3.40	3.75
3	2.85	3.20	3.55	3.90
3 1/2	3.55	3.90	4.25	4.65
4	3.90	4.25	4.65	5.00
4 1/2	4.25	4.65	5.00	5.40
5	4.65	5.00	5.40	5.75
6	6.40	6.80	7.20	7.60

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	\$2.25	3 7/8 x 3 3/8	3	Star
1	2.75	4 1/4 x 3 3/8	5	Atlantic
2	3.75	5 1/2 x 5 1/4	7	6 Meter





## Mast Track and Slides

NICKEL SILVER

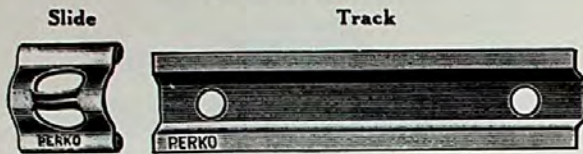


Fig. 98

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.
3/8	\$ .07	2 1/4	3/8	\$ .25	14 1/2
1/2	.12	2 3/4	1/2	.38	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.

## Mast Hoops and Jib Rings

GALVANIZED WROUGHT STEEL



Fig. 849

### MAST HOOPS

Size Inches	Per 100
1/4 x 2	\$11.00
1/4 x 2 1/2	14.50
1/4 x 3	15.50
1/4 x 3 1/2	20.00
1/4 x 4	24.00

### JIB RINGS

Size Inches	Per 100	Size Inches	Per 100
1 1/8 x 1 1/2	\$15.00	1/2 x 3	\$50.00
1 1/8 x 2	16.00	1/2 x 3 1/2	55.00
3/8 x 2	20.00	1/2 x 4	64.50
3/8 x 2 1/2	26.00	1/2 x 5	78.50
3/8 x 3	32.00	1/2 x 6	83.00

Sizes are thickness of metal and inside diameter.

## New Masthead Sheave

MICARTA—WITH SLEEVE BEARING  
LIGHTWEIGHT—STRONG—DEEP SCORE



Fig. 919

Weight at the peak of the mast is a very important factor. This sheave was designed accordingly, light but very strong. The sleeve bearing assures smooth action and minimum wear.

Each	Diam. Inches	For Diam. Rope Inches	Thickness Bearing Inches	Diam. Bearing Inches	Weight Ounces
\$ .60	1 3/8	1/4	1/8	1/4	1 1/2

## Masthead Sheaves

FOR MANILA ROPE  
CAST BRONZE—PLAIN BEARING

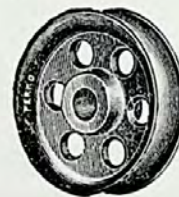


Fig. 892

Diam. Inches	Each	For Diam. Rope Inches	Thickness Bearing Inches	Diam. Bearing Inches	Weight Ounces
1 3/4	\$ .60	1/2	1/8	1/4	2 1/2
2	.65	3/4	1/8	3/8	3 1/2
2 1/4	.90	3/8	1/2	3/8	5 1/2

## Bronze Wire Rope Sockets

CAST BRONZE

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	\$ .50	1/8	3/8	1 3/4	1
0	.50	3/8	3/8	1 3/4	1
1	.50	1/2	3/8	1 3/4	1
2	.60	1/2	1/2	2 1/4	2
3	.80	1/2	3/8	2 3/4	3
4	1.40	3/4	3/4	3	4 1/2
5	1.50	3/4	1	3 1/4	8

### OPEN TYPE

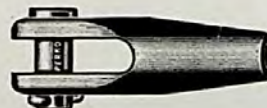


Fig. 757

No.	Plain Bronze Each	Diam. Wire Inches	Jaw Opening Inches	Diam. Pin Inches	Length Overall Inches	Weight Ounces
9	\$ .85	1/8	1/4	1/4	1 3/4	1
10	.85	3/8	1/4	1/4	1 3/4	1
11	.85	1/2	1/4	1/4	1 3/4	1
12	.95	1/2	3/8	3/8	2 1/4	2 1/2
13	1.25	1/2	3/8	3/8	2 3/4	3 1/2
14	1.60	3/4	1/2	1/2	3 1/4	5
15	2.40	3/4	5/8	3/8	3 1/2	9



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. Sewed with nylon thread, will not rot.

**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, buoys, 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 motor boats smaller than class 3, not in Commercial Service.

SIGNAL FLAG SERIES

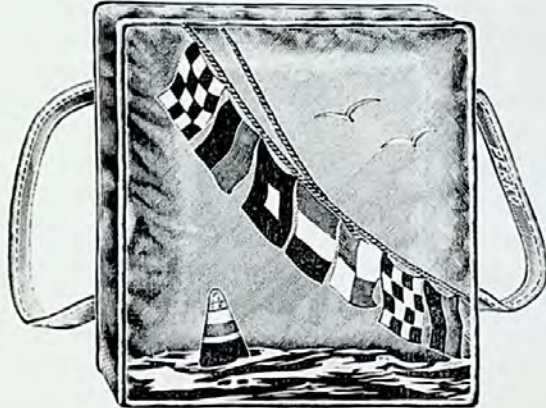


Fig. 192  
Each \$5.50

COAST GUARD SERIES

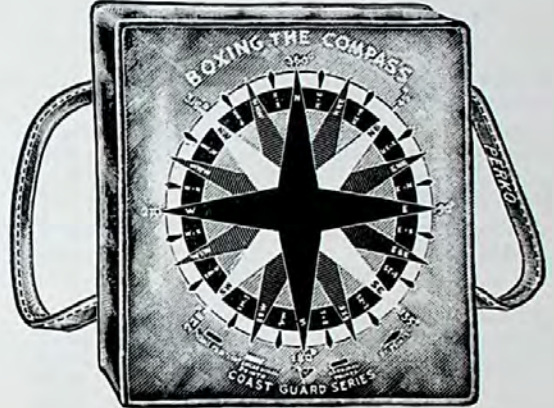


Fig. 193  
Each \$5.50

COAST GUARD SERIES

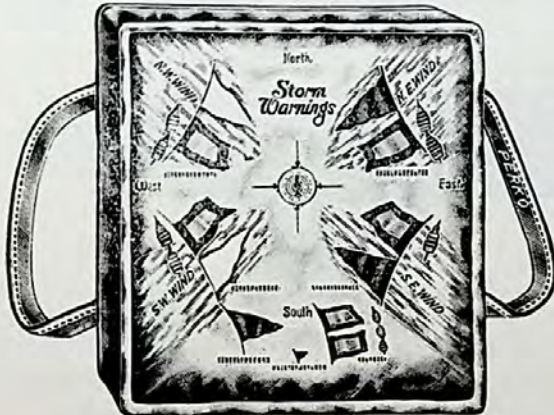


Fig. 196  
Each \$5.50

COAST GUARD SERIES



Fig. 212  
Each \$5.50

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 Light Blue with Red Piping.....	5.50
Fig. 300—All Dark Blue with Red Piping.....	5.50



## NEPTUNE SPECIALTIES PRODUCTS

### "Neptune" Marked Lead Lines

WITH VINYLITE PLASTIC MARKERS  
1-INCH CIRC. ITALIAN HEMP LINE

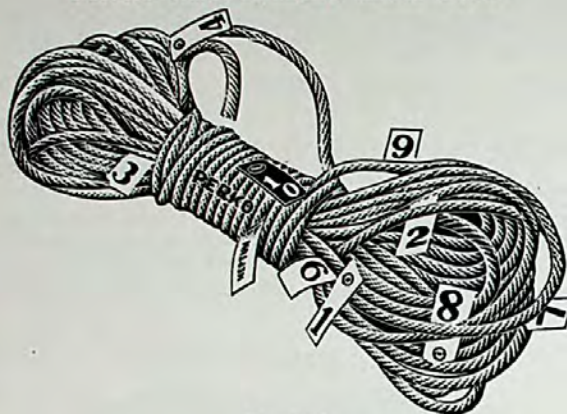


Fig. 190

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**—These can be supplied with braided cotton line instead of Italian hemp if desired. Please specify.

### Sounding Leads



Fig. 940

All weights from 2 to 16 pounds each inclusive carried in stock.

	Per Pound
2 to 5 Pounds.....	\$ .70
6 to 14 Pounds.....	.68
15 to 50 Pounds.....	.66

Larger sizes furnished to order.

### "Neptune" Plastic Boat Fenders

VINYLITE PLASTIC COVERING  
CORK FILLED—THEY FLOAT  
COLOR, 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 and water. Easily cleaned with soap and water or alcohol.

Supplied in glistening white. Color cannot be scuffed off. It is 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

### "Neptune" Plastic Covered Wire Life Line

LUSTROUS WHITE COLOR



Fig. 163

A special Vinylite Plastic Covered Cable for lifeline use. Wire cable is 1/4 inch galvanized, covering increases outside diameter to 3/8 inch.

Attractive, safe, clean and comfortable to the grip. Cannot tear hands or clothing.

Does away with unsightly applications of canvas, cloth or twine wrappings to wire and saves the cost of such applications.

Supplied only in 250 foot coils, with a half pint of Neptune Lacquer Coating to cover cut ends or splices.

\$0.35 Per Foot



## NEPTUNE SPECIALTIES PRODUCTS

### "Neptune" Anchor Cable Depth Markers

TOUGH—DURABLE WATERPROOF  
VINYLLITE  
NUMBERS CANNOT WASH OFF  
RED NUMERALS ON YELLOW MARKERS

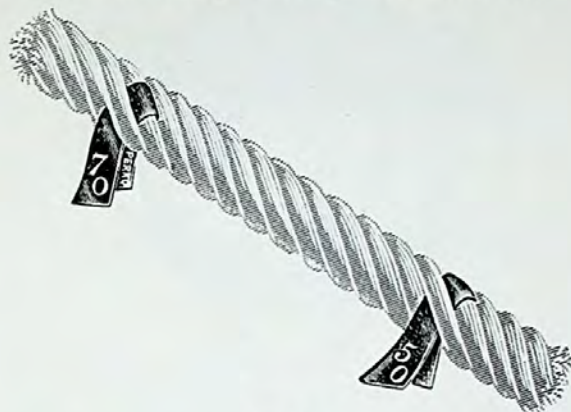


Fig. 164

For the far-sighted yachtsman. Pay out proper scope, at least five times water depth — double in heavy weather.

Know exact scope paid out by applying markers at proper intervals in anchor cable.

Made up in sets on a counter display card, 24 sets per card, a set consists of markers for 30-50-70-100-125-150 and 200 feet.

\$1.50 Per Set

### "Neptune" No-Chafe Mooring Sleeve

TOUGH—DURABLE—WATERPROOF  
VINYLLITE  
WITH NON-CORROSIVE ZIPPER

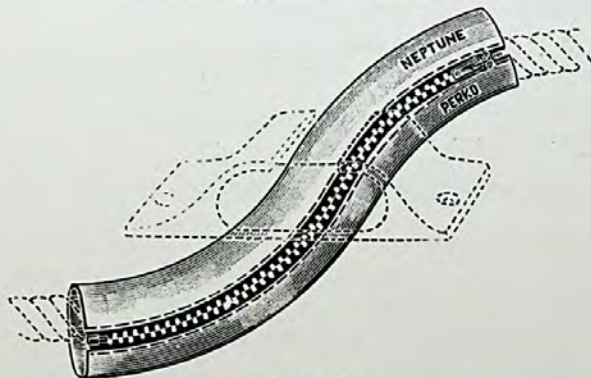


Fig. 165

Play safe with mooring and anchor lines.

Avoid chafe at chocks or jib-boom stays.

Immune to oil, grease or water.

Ample size to fit rope up to 1½ inch diameter.

Wearing ability surprisingly good and much greater than canvas or other makeshift applications.

Length 18 inches — Each \$2.50

### "Neptune" Aids to Safer Navigation

LAMINATED VINYLLITE—WATERPROOFED  
COPYRIGHTED

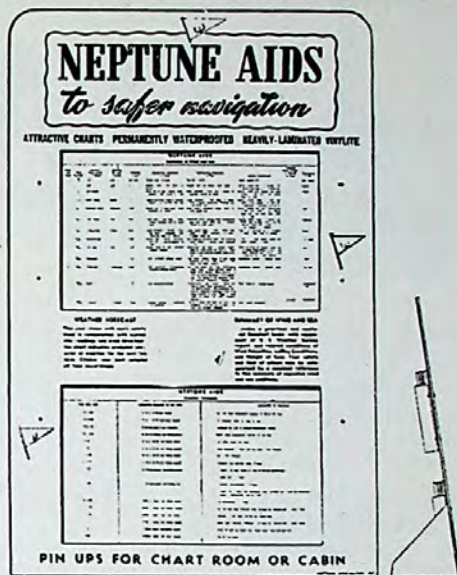


Fig. 166

Above illustration is counter display stand consisting of 12 each "weather forecasts" and "summary of wind and sea".

These aids will help to safer navigation, they are useful and attractive charts which can be easily pinned up in chart room or cabin for daily reference.

**WEATHER FORECAST** — Used in combination with barometer readings and wind directions this chart indicates probable character of weather for the next few days. Choose the start of your cruise accordingly.

**SUMMARY OF WIND AND SEA** — Provides a practical and easily read Beaufort Scale, with supplement of U. S. Weather Bureau reports, and related conditions of wind velocities, sailing conditions and height of seas.

Constant reference to this chart safeguards your safety and that of others.

Dimensions of Chart, 9½ x 6 Inches

\$0.90 Each Chart

Dealers display stand provided on first purchase of 12 each charts.



## NEPTUNE SPECIALTIES PRODUCTS

### "Neptune" Mooring Pennants

PATENT APPLIED FOR

ENTIRELY COATED WITH VINYL PLASTIC

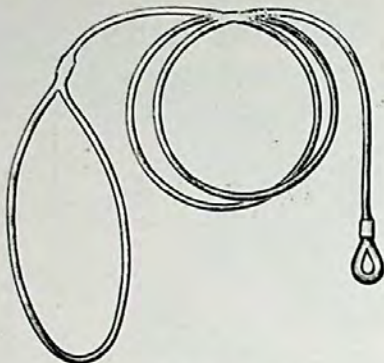


Fig. 167

A really tough and long-lasting new type of mooring pennant with distinct advantages:

#### GALVANIZED IMPROVED PLOW STEEL

Diameter Inches	Each	Assembled Length	Wire Construction
$\frac{1}{8}$	\$16.25	10 feet	7 x 19
$\frac{1}{4}$	21.75	10 feet	7 x 19
$\frac{1}{2}$	27.25	10 feet	7 x 19
$\frac{3}{4}$	32.50	10 feet	7 x 19

- (1) A special process of Vinyl plastic coating applied to the complete mooring pennant and fittings, which seals in the wire lubricant, thereby considerably extending the life of the cable and maintaining its flexibility.
- (2) The plastic coating in the manner applied tends to stop electrolytic action previously encountered in bare wire rope, because it completely insulates the mooring pennant itself from the anchor chain or cable and from the metal fittings on the bow of the boat.
- (3) A tough and long-lasting mooring pennant, attractive in appearance, comfortable to handle, resistant to all marine deterioration, oils, grease, and general corrosion.

### "Neptune" Plastic Ring Buoys

KAPOK FILLED  
PLASTIC COVERED GRAB LINE

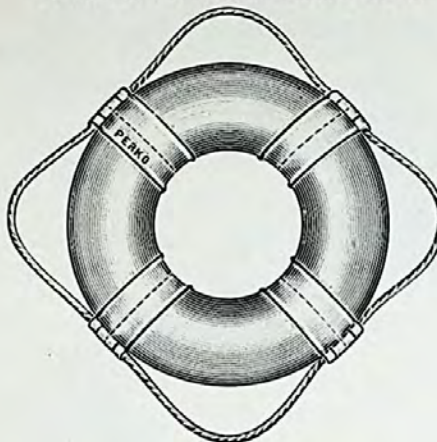


Fig. 179

Cover made of white vinylite sheeting filled with Kapok and with a grab line of white plastic covered cotton rope 680 pounds breaking strain.

A quality article of extreme lightness and buoyancy with long lasting lustrous white appearance.

At last a Ring Buoy so soft and light that it can be thrown without risk of injury to person in the water.

No need of a yearly paint job, just wipe it off with soap and water.

Impervious to salt water, will not mildew or crack.

With heavy gauge cover and tight filling, it holds its shape.

A handsome and useful adjunct to boat equipment.

Outside Diameter Inches	Each
15	\$5.75
17	6.85
19	7.90
21	9.75
24	10.75

#### LETTERING

Plastic coated decals for lettering the above ring buoys are shown and described on Page 163, Fig. 442.





NEPTUNE SPECIALTIES PRODUCTS

"Neptune" Plastic Caulking

A NEW SYNTHETIC CAULKING PRODUCT  
SALT WATER RESISTANT—NON SHRINKABLE  
APPLIED IN THE SAME MANNER  
AS COTTON CAULKING



Fig. 440

Packed in 1 lb. packages — 50 lbs. per carton  
Per Pound \$1.10

Initial caulking and necessary recaulking of wooden ships hulls are a vital factor in the safety and maintenance of any boat.

Frequent recaulking due either to poor workmanship or to the use of materials easily affected by bilge impurities or marine growth can be a costly item of expense in the operation of such vessels.

Organically, cotton is readily subject to deterioration by water impurities outside the hull and more particularly with oils, gasoline and other residues in bilge water which seep through the inside of the hull.

To improve and lengthen the life of caulking material, Neptune Specialties has conducted a long series of tests with recently developed plastic compounds and is now offering a new synthetic Vinyl product which is applied in the same manner as the cotton caulking it replaces.

It is completely salt water resistant.

It is non-shrinkable for all caulking purposes.

It is resilient, and as easily handled as caulking cotton.

It has complete resistance to marine growth and is unaffected by bilge water impurities.

Its wet strength is equal to its dry strength.

It is non-flammable in storage or after application.

Though it is for the moment slightly higher priced, its longer life will provide important economies by reducing the necessity of frequent recaulking jobs, and in some cases eliminating them altogether.

It looks like cotton, is packed like cotton, and requires no change in caulking technique or application.

"Neptune" Marine Decals

FOR APPLICATION TO WOOD, METAL, GLASS  
AND PLASTIC SURFACES

A2

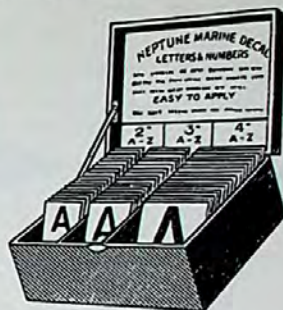


Fig. 442

Especially designed and constructed for marine use and to withstanding salt water and air.

Attractive and durable, they have their own surface lacquers and do not require varnishing.

These decals are processed for application to plastic materials of a stretch character where the ordinary decal will not adhere nor lend itself to elongation of the plastic surface.

The color is black with gold trim because in visibility tests they show up at much greater distances than the gold letters with black trim used previously.

Any boat owner can apply these himself as the operation is very simple and saves the cost of painting or stenciling.

Size Inches	Letters Each	Figures Each
2	\$ .10	\$ .10
3	.15	.15
4	.20	

The attractive wood display box illustrated above is supplied to dealers without charge on minimum initial orders for five sets of the complete assortment of letters A to Z and figures 1 to 0 in all sizes mentioned above.

"Neptune" Plastic Rawhide

LUSTROUS WHITE SHEETING — RAWHIDE  
TOUGH — IMPERVIOUS TO SALT WATER,  
GREASE AND OIL



Fig. 471

To protect rigging splices and reduce chafe at turn-buckles, crosstree ends, on booms, boarding ladders and boat chocks, etc.

Ideal for boot tops and when applied around wire will prevent chafing and tearing of light sails.

Has many other uses around a boat where an attractive, white, easily washable and durable material is required.

Packaged in 5 yard rolls, 42 inches wide.

	Per Sq. Ft.
Medium Gauge, .012 inches thick	\$.60
Heavy Gauge, .030 inches thick	.70



## NEPTUNE FLOATWEAR

(PATENT APPLIED FOR)

### New! Revolutionary! Smartly Styled Jacket

TO KEEP YOU DRY ABOARD—SAFE OVERBOARD  
 WATERPROOF — WARM — LIGHTWEIGHT — INFLATABLE  
 COLORS: RUST-TAN, NAVY-YELLOW AND WHITE  
 FOR BOATING, FISHING, HUNTING AND GENERAL SPORTS USE



Simply inflate the convenient quick action valve before entering the water or while in the water.

Designed along the best principles of life saving. Keeps head and shoulders from being submerged.

#### “FAIR WEATHER” JACKET FOR MEN AND WOMEN — Fig. 464

Made of the famous high quality “Flightex” sailcloth, closely woven, lightweight, windproof, and strong. Zelan water-repellent. It comes in a rich rust-tan color, sanforized and vat-dyed. Equipped with the same buoyant and insulation means as the “Foul Weather” suits.

Sizes: Small, Medium, and Large

Jacket Only — Price Each. \$26.75

#### “FOUL WEATHER” TWO PIECE SUITS FOR MEN AND WOMEN — Fig. 465

Made of finest quality materials, coated with a special Vinyl Plastic, completely waterproof and gives full protection from wind, rain, and snow. Provides the utmost in comfort and safety for yachtsmen, aviators, fishermen, hunters and sportsmen in general.

Sizes: Small, Medium, and Large

Men's Navy-Yellow “Floatwear” suit, complete with trousers.....\$29.95

Women's White “Floatwear” suit, complete with trousers..... 29.50

#### “FOUL WEATHER” HATS FOR MEN AND WOMEN — Fig. 494

Especially designed for complete head and neck protection, stiff brim and draw string neck piece. Colors: Navy-Yellow, White and Rust-Tan.

Sizes: Small, Medium, and Large

Price Each, \$4.95

SEE OPPOSITE PAGE FOR ADDITIONAL INFORMATION





## NEPTUNE FLOATWEAR

(SEE PAGE 164)

A new and revolutionary type of foul-weather clothing.

The insulating lining of Neptune Floatwear can be instantly inflated by "the man overboard", for the lining is designed like the "Mae Wests" used by Navy Pilots.

Concealed in the collar and front of Neptune Floatwear is a neckpiece of tough Vinylite pliable plastic which when inflated keeps the wearer's body and shoulders from being submerged.

It is designed according to the best principles of life saving developed during the war for life saving apparel.

A quick action valve is located at the front edge of the collar. The wearer can inflate the life preserver lining in or out of the water by simply blowing into the valve. It requires less effort than inflating a toy balloon.

When the inflation lining is deflated there is no evidence of bulk — nothing to detract from the smart styling of Neptune Floatwear.

Rain or Shine, Fair or Foul weather, Neptune Floatwear is waterproof and warm.

When you wear it, you are always safe for Neptune Floatwear is your unseen life preserver — always with you — always ready for instant use.

**WATERPROOF** — Neptune Floatwear is designed to fit snugly around the wrists, neck and waist.

**LIGHT, COMFORTABLE AND WARM** — Made of finest quality materials, Neptune Floatwear is light and strong. Old fashioned bulk and weight have been eliminated and the waterproof inflation lining insulates the inside of Neptune Floatwear giving it exceptional warmth.

**RESCUE VISIBILITY** — Neptune Floatwear is coated with a special Vinyl Plastic and comes in the same bright yellow-orange used by the Navy because of its high visibility characteristics. Floatwear also comes in an attractive high visibility white.

**FOR CHILDREN** — For play use near water the junior sizes are just the thing for youngsters. By inflating the inner lining slightly, children are absolutely safe, for they will float like a cork if they tumble into the water. You have complete peace of mind when your children wear Neptune Floatwear.

**FAIR WEATHER JACKET** — For yachting and all around sportswear we offer an attractive jacket made of the famous "Flightex" sail cloth. It comes in a rich rust-tan color, sanforized and zelan treated. It is furnished with the same life preserver inflation lining used in Neptune Floatwear.

### "Neptune" Pressure Boat Swab

PLASTIC CELLULOSE SPONGE MATERIAL  
RESISTANT TO SALT WATER, OILS, GREASE,  
GASOLINE AND KEROSENE



Fig. 443

Cannot mar or scratch the finest woodwork. No loose strands to catch on hardware, etc.

Reversible for use of both sides. Has very long wear.

Permits pressure necessary to really clean. Holds a generous amount of water and has 45 square inches of cleaning surface.

Does not splash water around, wipes as it cleans.

	Per Dozen
Swab, complete with handle.....	\$30.00
Swab refills only .....	15.00

Packed 1 Dozen per Carton

### "Neptune" Topside Sponge

PLASTIC CELLULOSE SPONGE MATERIAL  
WITH HAND STRAP



Fig. 444

Cleaning surface 7" x 5".

Handy for cleaning all topside surfaces, trunk cabin sides and tops.

**Other Uses** — Washing cabin interiors, portholes, upholstery, woodwork, spars and booms.

**Metal Polishing** — Dampen and use with paste metal polishes for chrome, brass or copper.

**Oiling** — Dip in oil and apply to metal or other surfaces for protection.

**Machinery** — May be dipped in kerosene, gasoline and other grease-cutting solvents for cleaning and may be used for picking up excess oils, liquids on and around all types of machinery.

Per Dozen, \$15.00

Packed 1 Dozen per Carton





**“PERKO” MARINE HOUSE FIXTURES**

These are not imitations of marine lamps, they are the real thing, with authentic fresnel lenses and solid brass metal parts. The same lamps that we manufacture for use on all classes of vessels that sail the seas, they meet all marine requirements for visibility, light projection, durability, resistance to corrosion and the ability to withstand the worst in weather conditions.

Exceptionally desirable for homes along the waterways, yacht clubs, establishments with marine motive or nautical atmosphere, marine rooms or dens, etc.

All complete with Coast Guard approved medium screw electric socket in the upper section and a hinged dome bottom with diffusing globe for illumination below the fixture. NOT WIRED.

**Marine Pattern  
WITH CLEAR FRESNEL LENS**



Ring in Top  
Fig. 853



Wall Type  
Fig. 856



Ceiling Type  
Fig. 858

No.	Fig. 853		Fig. 856		Fig. 858		Height Lamp Inches	Diam. Lamp Inches	Size Lens Inches	Diam. Wall Plate Inches	Diam. Ceiling Canopy Inches	Approx. Weight Pounds
	Polished Brass Each	Chromium Plated Each	Polished Brass Each	Chromium Plated Each	Polished Brass Each	Chromium Plated Each						
1	\$11.00	\$13.75	\$14.50	\$18.50	\$13.00	\$16.75	8 5/8	4 1/2	3 5/8 x 3 3/8	4 1/2	4 1/2	3
2	12.75	15.50	16.25	20.25	14.75	18.50	11 3/4	5 3/8	4 1/4 x 4	4 1/2	4 1/2	4

**Colonial Pattern  
WITH CLEAR FRESNEL LENS**

**Sou'wester Pattern  
WITH CLEAR FRESNEL LENS**



Wall Type  
Fig. 859



Ceiling Type  
Fig. 860



Wall Type  
Fig. 862



Ceiling Type  
Fig. 863

No.	Fig. 859		Fig. 860		No.	Fig. 862		Fig. 863	
	Polished Brass Each	Chromium Plated Each	Polished Brass Each	Chromium Plated Each		Polished Brass Each	Chromium Plated Each	Polished Brass Each	Chromium Plated Each
1	\$13.50	\$17.50	\$12.00	\$15.75	1	\$13.50	\$17.50	\$12.00	\$15.75
2	15.25	19.25	13.75	17.50	2	15.25	19.25	13.75	17.50
3	24.00	30.00	22.00	27.50	3	24.00	30.00	22.00	27.50

No.	Height Lamp Inches	Diam. Lamp Inches	Size Lens Inches	Diam. Wall Plate Inches	Diam. Ceiling Canopy Inches	Approx. Weight Pounds	No.	Height Lamp Inches	Diam. Lamp Inches	Size Lens Inches	Diam. Wall Plate Inches	Diam. Ceiling Canopy Inches	Approx. Weight Pounds
1	8 1/4	3 1/2	3 5/8 x 3 3/8	4 1/2	4 1/2	2 1/4	1	8 1/2	4 3/8	3 5/8 x 3 3/8	4 1/2	4 1/2	2 1/8
2	9	4 3/8	4 1/4 x 4	4 1/2	4 1/2	3	2	11	5 3/4	4 1/4 x 4	4 1/2	4 1/2	3 1/4
3	12	5 5/8	5 1/2 x 5 1/4	4 1/2	4 1/2	5 1/4	3	13	7	5 1/2 x 5 1/4	4 1/2	4 1/2	6

**NOTES** — Figs. 860 and 863 without canopy and chain but with ring in top, deduct \$2.00 each for polished brass, \$3.00 each for chromium plated.  
 With frosted or colored lens (red, green, blue or amber), Size 1, add \$.50 each. Size 2, add \$1.00 each. Size 3, add \$4.50 each.  
 With open bottom, no globe or hinged frame, deduct \$1.00 each.

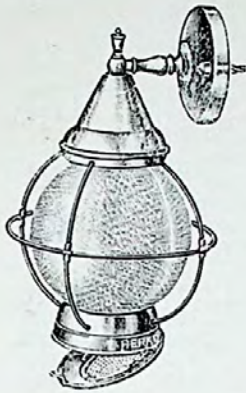




### Whaler Pattern

WITH CLEAR TRANSPARENT GLOBE—NOT WIRED

Centuries ago this style was a whale oil burning lamp used aboard ship for navigational and illuminating purposes, and is still used today for signalling.



Wall Type  
Fig. 866



Ceiling Type  
Fig. 867

No.	Fig. 866		Fig. 867		Height Lamp Inches	Diameter Globe Inches	Diameter Wall Plate Inches	Diameter Ceiling Canopy Inches	Approx. Weight Pounds
	Polished Brass Each	Chromium Plated Each	Polished Brass Each	Chromium Plated Each					
1	\$23.00	\$28.50	\$21.00	\$26.00	11	6	4 1/2	4 1/2	2 3/4
2	26.00	34.00	23.50	28.50	14	8	4 1/2	4 1/2	4 1/4

Fig. 867 without canopy and chain but with ring in top, deduct \$2.00 each for polished brass. \$3.00 each for chromium plated.

With frosted or colored globe (red, green or blue), Sizes 1 or 2, add \$3.00 each.

With open bottom, no globe or hinged frame, deduct \$1.00 each.

### "Lighthouse"

CAST ALUMINUM ALLOY  
STEEL GRAY FINISH

An attractive and authentic replica of a coastal lighthouse.

Ideal for a room of nautical atmosphere.

A pair of these on the fireplace mantle of a yacht club, marine room or den creates an attractive nautical effect.

A practical trophy for a boat race or regatta.

Complete with toggle switch in base, a 110 volt bulb and candelabra screw socket.



Fig. 868

Each	Height Overall Inches	Diameter Base Inches	Weight Pounds
\$24.50	11 3/4	6 3/4	3 1/2



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17	9	94	39	165	161	235	142
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20	9	97	145	168	101	238	110
21	23	98	158	169	24	239	69
23	23	99	158	170	24	240	47
24	33	100	145	171	24	241	47
25	35	101	145	172	24	242	38
26	44	102	143	173	24	243	119
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28	30	104	18	175	24	245	38
29	151	105	39	176	24	246	38
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38	119	113	17	184	32	256	37
40	10	114	128	185	111	257	36
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42	10	116	128	187	96	260	37
43	144	117	128	188	96	261	37
44	19	118	128	189	111	262	38
45	138	119	105	190	160	263	38
46	25	120	124	191	160	264	38
47	157	121	44	192	159	265	54
48	10	122	118	193	159	267	38
49	6	123	118	194	147	268	28
51	144	124	79	195	147	269	37
52	144	125	27	196	159	270	43
53	144	126	27	197	159	271	155
54	144	127	27	198	159	272	38
55	144	128	28	199	159	273	101
56	144	129	23	200	61	274	34
57	157	130	35	202	61	275	146
58	144	131	35	203	69	276	43
59	26	132	36	204	69	277	43
63	26	133	36	205	69	279	147
64	68	134	153	206	69	280	147
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295	91	365	70	435	153	512	82
296	31	366	157	436	46	513	76
297	49	367	72	437	46	515	77
298	91	368	72	438	46	520	113
299	100	369	70	439	46	521	17
300	159	370	141	440	163	522	136
301	30	371	90	442	163	523	136
302	38	372	54	443	165	526	79
303	110, 153	373	71	444	165	527	78
304	29	374	71	445	141	528	79
305	48	375	17	446	112	529	49
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