

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. 130

1950



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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 some 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. I.E. In areas west of the Mississippi, prices are generally 10% to 15% higher because of the heavy shipping cost involved. 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.

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“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 3/4 inches

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

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

Weight, 3 3/4 pounds



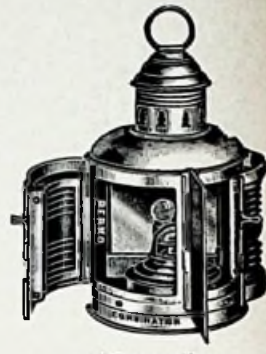
(Closed)

Galvanized
Each
\$9.75

Fig. 0-1

Polished
Brass
Each
\$11.00

Chromium
Plated
Each
\$13.75



(Opened)

De-Lite Combination Lights

FLAT TOP—FRONT DOOR
ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Height, less ring, 6 1/2 inches

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

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

Weight, 3 pounds



(Closed)

Galvanized
Each
\$9.75

Fig. 0-10

Polished
Brass
Each
\$11.00

Chromium
Plated
Each
\$13.75



(Opened)

Old Style Combination Lights

TURRET TOP—BOTTOM OPENING
FOR CLASS 1 BOATS
WITH RED AND GREEN LENSES

Height less Ring, 9 inches.

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

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

Weight, 2 3/4 pounds.



Fig. 1

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

Old Style Combination Lights

FLAT TOP—BOTTOM OPENING
FOR CLASS 1 BOATS

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

WITH RED AND GREEN
LENSES

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

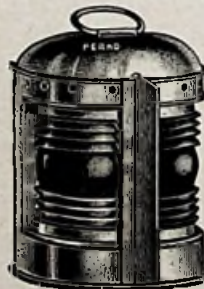


Fig. 3

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

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—REMOVABLE GUARDS
FOR CLASSES 1, 2 AND 3 BOATS



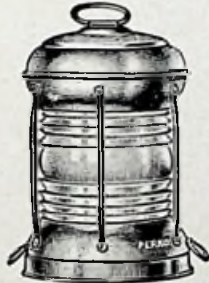
Junior Fig. 0-2		Senior Fig. 0-6	
Fig.	Height Less Ring Inches	Diam. Base Inches	Size of Lens Inches
0-2	8 ³ / ₈	4 ¹ / ₂	3 ¹ / ₈ x 3 ³ / ₈
0-6	11 ¹ / ₄	5 ³ / ₈	4 ¹ / ₄ x 4

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—REMOVABLE 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
11	6	4 ¹ / ₂	3 ¹ / ₈ x 3 ³ / ₈
12	9	5 ³ / ₈	4 ¹ / ₄ x 4

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

Item	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 4.	

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 Plats	Weight Pounds
\$19.50	4 ¹ / ₄ x 4	14	7	3 ¹ / ₂	4 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
HINGED TOP—CLEAR GLOBE



No. 49

Galv. Each	Pol. Brass Each	Height Inches	Diam. of Base Inches	Size of Globe Inches	Weight Lbs.
\$8.50	\$10.00	11	5 ³ / ₈	4 x 6 ¹ / ₂	3

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

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.



"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, 10½ inches
Measurements of base, 5¼ inches x 5¼ inches
Size of lens, 4¼ inches x 4¼ inches
Weight, per pair, 6¼ pounds

Fig. 0-4

Galvanized Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
\$17.00	\$19.50	\$25.00



(Opened)

"Perko" De-Lite Bow Lights

TURRET TOP
CLASS 2—OIL AND ELECTRIC, DOUBLE CONTACT

Height, less ring, 10½ inches
Size of lens, 4¼ inches x 6¼ inches
Measurements of base, 5 inches x 5½ inches
Weight, each, 3 pounds

Fig. 0-5

With clear lens	Galvanized Each	Polished Brass Each	Chromium Plated Each
With Red, Green, Amber or Blue Lens	\$8.50	\$9.75	\$12.50
	10.00	11.25	14.00



(Closed)



(Opened)

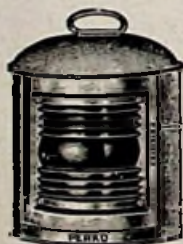
"Perko" De-Lite Side Lights

FLAT TOP—CLASS 2
ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Height, less ring, 7¼ inches
Measurements of base, 5½ inches x 5½ inches
Size of lens, 4¼ inches x 4¼ inches
Weight, per pair, 5½ pounds

Fig. 0-40

Galvanized Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
\$17.00	\$19.50	\$25.00



(Closed)



(Opened)

"Perko" De-Lite Bow Lights

FLAT TOP—CLASS 2
ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Height, less ring, 7¼ inches
Measurements of base, 5 inches x 5½ inches
Size of lens, 4¼ inches x 6¼ inches
Weight, each, 2¾ pounds

Fig. 0-50

With clear lens	Galvanized Each	Polished Brass Each	Chromium Plated Each
With Red, Green, Amber or Blue Lens	\$8.50	\$9.75	\$12.50
	10.00	11.25	14.00



(Closed)



(Opened)

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

SPARE PARTS

Lenses, fig. 259 Class 2, for figs. 0-4 and 0-40	Each	\$2.10
Lenses, fig. 260 Class 2, for figs. 0-5 and 0-50	Each	2.10
Oil Founts, fig. 582, Brass, for figs. 0-4 and 0-5	Each	1.25
Oil Burners, fig. 246 No. 1, Brass, for figs. 0-4 and 0-5	Each	.30
Oil Wicks, fig. 302 No. 1	Each	.05
Electric Sockets, Double Contact, fig. 276, No. 2	Each	.65
Electric Sockets, Medium Screw, fig. 346, No. 1	Each	.50



“Perko” De-Lite Side Lights

TURRET TOP

FOR CLASS 3 BOATS—40 FEET OR OVER AND NOT MORE THAN 66 FEET IN LENGTH

OIL AND ELECTRIC, DOUBLE CONTACT

Size of lens, $5\frac{3}{8}$ inches x $5\frac{1}{8}$ inches
 Height, less rings, $12\frac{1}{4}$ inches
 Measurements of base, $5\frac{5}{8}$ inches x $5\frac{5}{8}$ inches
 Weight, per pair, 8 pounds

Fig. 0-8

Galvanized
Brass
Per Pair
\$19.50

Polished
Brass
Per Pair
\$22.50

Chromium
Plated
Per Pair
\$29.00



(Closed)



(Opened)

“Perko” De-Lite Bow Lights

TURRET TOP

CLASS 3—OIL AND ELECTRIC, DOUBLE CONTACT

Size of lens, $5\frac{3}{8}$ inches x $7\frac{1}{4}$ inches
 Height, less ring, $12\frac{1}{4}$ inches
 Measurements of base, $5\frac{1}{2}$ inches x $6\frac{1}{8}$ inches
 Weight, each, 4 pounds

Fig. 0-9

With clear lens
With Red, Green or Blue Lens

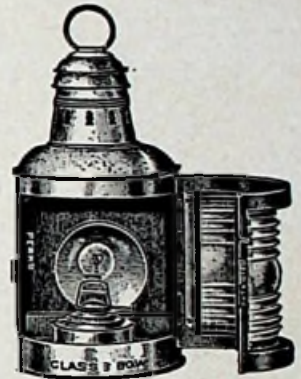
Galvanized
Each
\$9.75
11.75

Polished
Brass
Each
\$11.25
13.25

Chromium
Plated
Each
\$14.50
16.50



(Closed)



(Opened)

“Perko” De-Lite Side Lights

FLAT TOP—CLASS 3

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

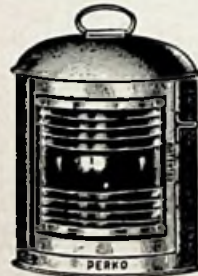
Size of lens, $5\frac{3}{8}$ inches x $5\frac{1}{8}$ inches
 Height, less ring, $8\frac{1}{2}$ inches
 Measurements of base, $5\frac{5}{8}$ inches x $5\frac{5}{8}$ inches
 Weight, per pair, 7 pounds

Fig. 0-80

Galvanized
Per Pair
\$19.50

Polished
Brass
Per Pair
\$22.50

Chromium
Plated
Per Pair
\$29.00



(Closed)



(Opened)

“Perko” De-Lite Bow Lights

FLAT TOP—CLASS 3

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Size of lens, $5\frac{3}{8}$ inches x $7\frac{1}{4}$ inches
 Height, less ring, $8\frac{1}{2}$ inches
 Measurements of base, $5\frac{1}{2}$ inches x $6\frac{1}{8}$ 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



(Closed)



(Opened)

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

SPARE PARTS

Lenses, fig. 259 Class 3, for figs. 0-8 and 0-80	Each	\$2.60
Lenses, fig. 260 Class 3, for figs. 0-9 and 0-90	Each	2.60
Oil Founts, fig. 582, Brass, for figs. 0-8 and 0-9	Each	1.25
Oil Burners, fig. 246 No. 1, Brass, for figs. 0-8 and 0-9	Each	.30
Oil Wicks, fig. 302 No. 1	Each	.05
Electric Sockets, Double Contact, fig. 276, 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, $4\frac{1}{4} \times 4\frac{3}{4}$ 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, $5\frac{1}{8} \times 5\frac{3}{8}$ 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, $4\frac{1}{4} \times 4\frac{3}{4}$ in.
Extreme Height, $7\frac{1}{2}$ in.
Size of Base, $4\frac{3}{4} \times 5\frac{1}{2}$ in.
Weight, per pair, 5 lbs.

CLASS 3
Size of Lenses, $5\frac{1}{8} \times 5\frac{3}{8}$ 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

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, Amber 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, $5\frac{1}{8} \times 7\frac{1}{8}$ 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, $7\frac{1}{2}$ inches
Size of Base, $4\frac{1}{2} \times 5$ inches
Weight, each, $2\frac{1}{2}$ lbs.

CLASS 3

Size of Lens, $5\frac{1}{8} \times 7\frac{1}{8}$ 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

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

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

SPARE PARTS

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

Electric Adapters, figs. 291 or 292
Electric D.C. Adapters fig. 365
Oil Burners and Wicks figs. 246 and 302 No. 1

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.



Fig. 69

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

Galvanized Per Pair	Pol. Brass Per Pair	Chromium Plated Per Pair
\$12.00	\$14.50	\$19.75

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.

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. To install battery remove screws holding bail handle and cap.



Fig. 48

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.

Hand Utility Light

ALL BRASS—NICKEL PLATED

A two cell flashlight case with a clear fresnel ball globe creates a light with many uses aboard a boat of any size, i.e., emergency stern light, signal light, flashlight and especially as a white light for sailboats.



Fig. 71

Each	Length Inches	Diam. Inches	Weight Ounces
\$4.00	7	1 3/4	11

Price includes bulb, no batteries.

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



Polished Brass Each \$10.50



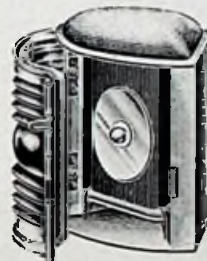
Chromium Plated Each \$12.50

Fig. 40

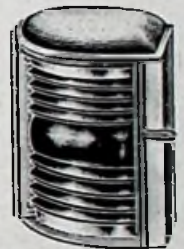
Height Overall Inches	Width Overall Inches	Size Lenses Inches	Weight Pounds
5 3/8	5 3/8	3 1/8 x 3 3/8	2 1/4

Side Lights

CLASS 2



Polished Brass Per Pair \$19.00



Chromium Plated Per Pair \$23.00

Fig. 41

Height Overall Inches	Size Lenses Inches	Weight Per Pair Pounds
5 3/8	4 1/4 x 4 3/4	4

Bow Lights

CLASS 2



Polished Brass Each \$9.50



Chromium Plated Each \$11.50

Fig. 42

Height Overall Inches	Width Overall Inches	Size Lens Inches	Weight Pounds
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

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.



Fig. 89

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

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

De-Lite Side Lights

WITH FRONT DOORS
FOR CLASSES 2 AND 3 BOATS
CAST BRONZE



Closed



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 1/8 x 5 1/8	8
Class	Polished Bronze Per Pair	Chromium Plated Per Pair	Spare Lenses Each	Spare Sockets Each
2	\$19.00	\$23.00	\$2.10	\$.65
3	23.00	27.00	2.60	.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.



Fig. 91

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

Spare Lenses, see Fig. 259.

Royal Bow Lights

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

Same construction as above.



Fig. 92

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

Spare Lenses, see Fig. 260.

De-Lite Bow Lights

WITH FRONT DOORS
FOR CLASSES 2 AND 3 BOATS
CAST BRONZE



Fig. 505

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

Class	Height Inches	Width Inches	Lens Inches	Weight Lbs.
2	5 1/2	5 1/2	4 1/4 x 6 3/8	3 1/4
3	6 1/2	6	5 1/8 x 7 1/8	4 1/4
Class	Polished Bronze Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each
2	\$ 9.50	\$11.50	\$2.10	\$.65
3	11.50	13.50	2.60	.65

With medium screw sockets, add \$1.25 Each.

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

Spare Lenses, see Fig. 260.

With Colored Lens, Class 2, add \$1.65 Each.

With Colored Lens, Class 3, add \$2.00 Each.

Colored Lenses are Red, Green or Blue.

Also Amber in Class 2 only.

Royal Anchor Lights

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



Fig. 90

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

Spare Lenses, see Fig. 261.

Above lights cannot be equipped with medium screw sockets.

Spare Brackets, see Fig. 25.

Spare Electric Adapters, see Fig. 138.



Streamline Side Lights

CAST BRONZE
CLASSES 2 AND 3—ELECTRIC

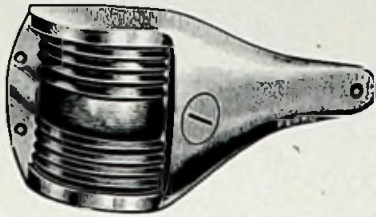


Fig. 563

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

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

Class	Height Inches	Length Inches	Size Lens Inches	Weight Per Pair Lbs.
2	4 3/4	10 1/8	4 1/4 x 4 3/4	5 1/2
3	6	10 1/2	5 1/8 x 5 1/8	7 1/2
	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 Side Lights

WROUGHT 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 1/8	9 5/8	4 1/4 x 4 3/4	3 1/4
Bright Finish Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair	Spare Lenses Each
\$15.00	\$16.50	\$20.50	\$2.10

Spare Lenses, see Fig. 259.

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

Streamline Bow Lights

CAST BRONZE
CLASSES 2 AND 3—ELECTRIC

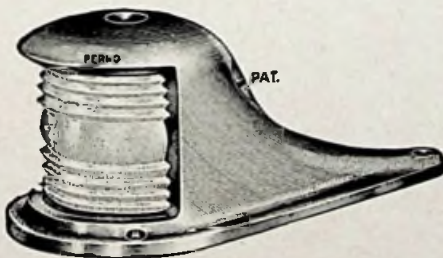


Fig. 561

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

Streamline Bow Lights

WROUGHT BRASS
CLASS 2—ELECTRIC

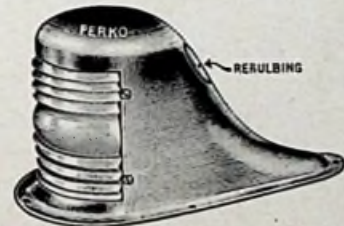


Fig. 1139

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
Bright Finish Each	Polished Brass Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each
\$9.75	\$10.75	\$12.75	2.10	\$.35

Spare Lenses, see Fig. 260.

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

With Flag Pole Socket add \$.75 each.

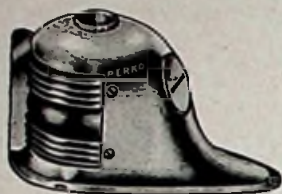
Furnished without Flag Pole Socket unless otherwise specified.

STREAMLINE COMBINATION LIGHTS

FOR OUTBOARD MOTOR BOATS AND SMALL RUNABOUTS

Heavy Gauge Wrought Brass

WITH REBULBING FEATURE AND FLAG POLE SOCKET



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
Bright Finish Each	Polished Brass Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each
\$5.00	\$6.00	\$7.25	\$1.00	\$.35

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

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 Finish Each	Polished Brass Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each
\$4.50	\$5.50	\$6.75	\$1.00	\$.35

Self Contained Battery Type

FOR SINGLE CELL FLASHLIGHT BATTERY WITH FLAG POLE SOCKET



Fig. 1144

A unique arrangement for "on" or "off" eliminates the need of an exterior switch which is generally not watertight. Slide the light body forward on its base to turn "on". Battery and bulb replaced without difficulty. With Red and Green fresnel lenses, miniature socket and bulb, no battery.

Dimensions same as Fig. 1140 above.

Bright Finish Each	Polished Brass Each	Chromium Plated Each	Spare Bulbs Each	Spare Sockets Each
\$6.50	\$7.50	\$8.25	\$1.00	\$.20

Suggested battery, Eveready No. 950 or equal.

"Little Joe"

DIE CAST ALUMINUM ALLOY—WITH FLAG POLE SOCKET—NO REBULBING FEATURE

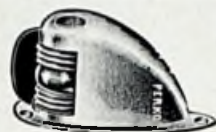


Fig. 1146

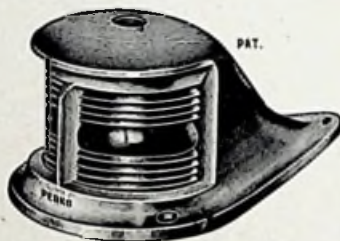
A neat little light suitable for small boats to which an outboard motor is attached.

Polished Each	Spare Lenses Each	Height Inches	Base Inches	Height Lens Inches	F. P. Socket Inches	Weight Ounces
\$3.75	\$6.00	2	4 1/4 x 2 3/8	1 1/8	1/2	4

Spare miniature bayonet S.C. bulbs, each \$.20.

Cast Bronze

WITH REBULBING FEATURE AND F. P. SOCKET



Rear view showing method of changing bulb.

Fig. 598

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

No.	Height Inches	Base Inches	Lens Inches	Flagpole Socket Inch	Weight Lbs.
1	3 1/8	3 7/8 x 6 1/4	2 1/8 x 3	3/4	2
2	3 3/4	4 7/8 x 8	2 1/8 x 3	1	2 1/2
3	4 3/8	5 1/2 x 8 3/4	3 1/8 x 3 3/8	1	4 3/4

Spare Lenses, see Fig. 259.

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

Heavy Gauge Wrought Brass

WITH REBULBING FEATURE AND F. P. SOCKET FOR LARGER CLASS 1 MOTORBOATS



Fig. 1141

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 3 1/8	1	2

Bright Finish 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.

NOTE — Spare Rebulbing Features Complete for Figs. 598, 1140 and 1141, Polished \$1.65, Chrome \$2.00 each.



"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	Extra Bulbs Each
Fig. 1142 13 3/4	Fig. 1143 20	1/8	2 1/8 x 3	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.

Mahogany Flag Poles

Turned from solid seasoned mahogany. Natural finish—varnished.



Fig. 496

Length Overall Inches	Each	Diameter Base Inches
18	\$1.25	3/4
18	1.50	1
24	2.25	1
30	3.25	1 1/4
36	4.25	1 1/4
48	5.25	1 1/4

With brass ferrule, add \$.50 Each.

Non-Fouling Flag Staff

ALL BRASS TUBING—BRASS CLIPS
LIGHTWEIGHT

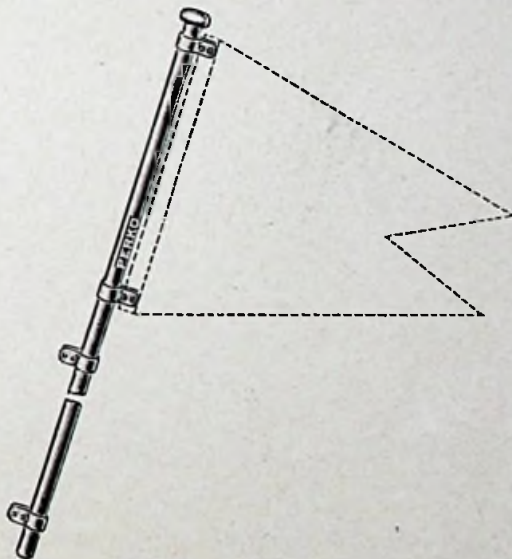


Fig. 507

Adjustable for any size burgee up to 18 inches. Upper tube swivels with flag, no wrapping around staff. Unique clips allow instant removal of flag.

Polished Brass Each	Chromium Plated Each	Length Overall Inches	Diameter Upper Tube Inches	Weight Ounces
\$8.00	\$10.00	36	1/2	14

Outboard Combination Lights

WROUGHT BRASS



Fig. 485
For Permanent Mounting



Fig. 486
For Temporary Mounting

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

Fig.	Height Overall Inches	Diam Body Inches	Size Lens Inches	Weight Lbs.	
485	4 1/2	2 1/2	2 1/8 x 3	3/4	
486	4	2 1/2	2 1/8 x 3	1	
Fig.	Polished Brass Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each	Spare Brackets Each
485	\$3.75	\$5.00	\$1.00	\$.70	
486	4.50	5.75	1.00	1.00	\$.65

New Flag Clips

BRASS—CHROMIUM PLATED

A new and unique clip for attaching flag to pole instantly without the use of screw eyes, twine or other makeshift methods in common use.

Will fit all average wood poles.



Fig. 508

No.	Per Pair	For Pole Inches	Weight Per Pair Ounces
1	\$2.00	18	1 1/4
2	2.15	24	1 1/2
3	2.30	30	1 3/4

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	1½
30	10.50	12.00	1¼

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	\$5.50	\$6.50
24	¾	8	6.00	7.00
30	¾	9	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.
20	¾	11
24	¾	12
30	¾	16

Length Overall Inches	Polished Brass Each	Chromium Plated Each
20	\$6.00	\$7.75
24	6.25	8.00
30	6.50	8.25

Spare clear globes, \$1.00 Each.

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

Spare Flag Pole Sockets, Pol. Brass, \$2.00; Chrome Plated \$2.60 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
20	¾	1¼
24	¾	1½
30	¾	1½

Maximum Length Inches	Polished Brass Each	Chromium Plated Each
20	\$6.50	\$8.25
24	6.75	8.50
30	7.00	8.75

Spare clear globes, \$1.00 Each.

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

Spare Flag Pole Sockets, Pol. Brass \$3.00; Chrome Plated \$3.75 Each.

Fig. 609

Battery Pole Light

ALL BRASS BATTERY CASE—NICKEL PLATED
SOLID MAHOGANY POLE—FRESNEL GLOBE



Two standard flashlight cells in battery case will supply weeks of service in ordinary intermittent use.

Supplied complete with bulb and switch, no batteries.

Length Overall Inches	Diam. Base Inches	Weight Ounces
Each	20	1 8

\$5.75

Fig. 710



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	\$1.09	\$.35	4¼	¾	7

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



Fig. 491



Fig. 482

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

HEAVY DUTY TYPE
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

NOTES

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

Stern Lights

BRASS—WITH THREADED FRESNEL GLOBE
DOUBLE CONTACT SOCKET

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



Fig. 404

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

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



Fig. 422

No.	Polished Brass Each	Chromium Plated Each	Diam. Globe Inches	Height Overall Inches	Diam. Base Inches	Weight Ounces
1	\$4.50	\$5.75	2½	5½	2¾	12
2	4.50	5.75	3	6	2¾	14
3	5.25	6.75	3	12	2¾	20

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



Fig. 506

No.	Polished Brass Each	Chromium Plated Each	Diam. Globe Inches	Height Overall Inches	Diam. Base Inches	Weight Ounces
1	\$6.25	\$7.50	2½	5½	2¾	18
2	6.25	7.50	3	6	2¾	20
3	7.00	8.50	3	12	2¾	26

NOTES

Figs. 422, 484, 498, 506, Maximum Bulb, 50 C. P.
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



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.

Fig. 375

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. 201 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



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

Fig. 521

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



Equipped with clear fresnel lens and fig. 222 No. 1 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.

Fig. 112

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

CAST BRONZE

WITH FIG. 106 THREADED GLOBE FOR BULB UP TO 60 WATTS



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.

Fig. 113

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 1/4
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.

Hgt. 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 1/2 INCH PIPE



Fig. 362

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

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

Mast 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 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 1/2	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.



Fig. 104

Mast Lights

BRASS BASE—CLEAR FRESNEL GLOBE
MEDIUM SCREW SOCKET



Fig. 488

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

Fig. 489 drilled for mounting on mast truck.

Plain Bronze Each	Polished Bronze Each	Height Overall Inches	Diam. Base Inches	Size Globe Inches	Opening In globe Inches	Weight Lbs.
\$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 Incher	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 Incher	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

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.



Fig. 1163



Fig. 16

Portable Staff Light

ELECTRIC—360° FRESNEL LENS
WITH PACKING GLAND FOR CABLE
MEDIUM SCREW SOCKET

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

Polished Brass Each	Electric Fount Each
\$19.50	\$4.00

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

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



Fig. 44

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	Elect.
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 5/16 x 3 3/16	6 3/4	1/2	4	up to 65
2	4 1/4 x 4	8 1/4	3/4	6	65 to 150
3	5 1/2 x 5 1/4	9 3/4	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	4 3/8	2 3/4	2 3/8	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	8¾	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.
 With amber lens in Size No. 2 only, 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.
 With amber lens in Size No. 2 only, add \$8.00 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 Each
1	\$33.00	\$41.50	6¾	12½	7 ⅞	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

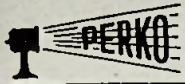
No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Pounds Each
1	\$38.00	\$46.50	6¾	12½	7 ⅞	11
2	49.00	57.50	7½	14¼	9½	16
3	86.50	99.50	8½	15¼	11	22



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 2 Medium Screw Phenolic Sockets, add \$5.00 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

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

Fig. 1155



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	10⅞	15
3	80.00	93.00	8½	19¾	10¾ x 11¼	12¾	21

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

With amber lens Sizes No. 0 and No. 2 only, add \$8.00 each.

Fig. 1156



Stern Lights, Fig. 1157

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

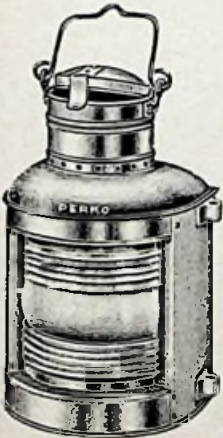
No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 269 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of lugs Inches	Weight Each Pounds
0	\$32.75	\$41.25	5½	13¾	7 x 7¼	8½	6
1	34.00	42.50	6¾	14¾	7 x 7½	8¾	8
2	45.00	53.50	7½	18	9 x 10	10⅞	13
3	80.00	93.00	8½	19¾	10⅞ x 10¾	12¼	16

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

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

With amber lens Sizes No. 0 and No. 2 only, add \$8.00 each.

Fig. 1157.



Anchor Lights, Fig. 1158

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

No.	Galv. Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Wt. Each Lbs.
0	\$31.75	\$40.25	5½	13¾	7⅝	10
1	33.00	41.50	6¾	14¾	7⅝	11
2	44.00	52.50	7½	18	9½	17
3	79.00	92.00	8½	19¾	11	23

Breakdown Lights, Fig. 1159

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

No.	Galv. Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Wt. Each Lbs.
0	\$36.75	\$45.25	5½	13¾	7⅝	10
1	38.00	46.50	6¾	14¾	7⅝	11
2	49.00	57.50	7½	18	9½	17
3	86.50	99.50	8½	19¾	11	23



Oil Lamp used in Lights on this page

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



Fig. 1158
Fig. 1159

ELECTRIC ONLY

COMBINATION OIL AND ELECTRIC

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

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

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

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

With Fig. 1082 3 Wire Mogul Adapter, add \$2.25 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.
With amber lens Sizes No. 0 and No. 2 only, add \$8.00 each.



Fig. 983

Stern Lights, Fig. 986

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

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

With red or green lens (special purpose) add \$8.00 each.
With 45 degree red lens (for suction dredges) add \$12.00 each.
With amber lens Sizes No. 0 and No. 2 only, add \$8.00 each.



Fig. 986

Anchor Lights, Fig. 32

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

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

Breakdown Lights, Fig. 84

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

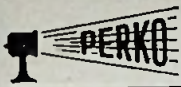
No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Each Pounds
0	\$27.00	\$36.00	5½	11	7½	8
1	29.00	38.00	6¾	12	7½	9
2	38.00	48.00	7½	14½	9½	13



Fig. 32
Fig. 84

NOTES

Above prices do not include bulbs.
With double 2 wire medium screw adapter fig. 289 (Size 2 only) add \$2.00 each.
With 3 wire mogul adapter fig. 1082 for double filament bulb, add \$2.25 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 of Lugs Inches	Weight Each Pounds
0	\$23.50	\$32.00	5½	14	7 x 7	8½	7½
1	25.50	34.00	6¾	15	7 x 7	8¾	9½
2	34.50	44.50	7½	18¾	9 x 9½	10¾	14

With red or green lens (special purpose) add \$8.00 each.
With amber lens Sizes No. 0 and No. 2 only, add \$8.00 each.



Fig. 982

Stern Lights, Fig. 985

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

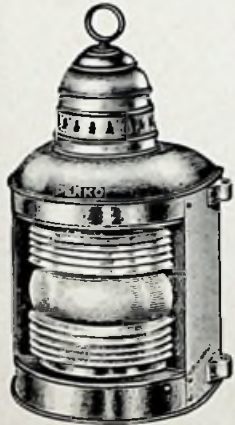


Fig. 985

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 269 Height Inches	Height Less Ring Inches	Size Base Inches	C to C of Lugs Inches	Weight Each Pounds
0	\$23.50	\$32.00	5½	14	7 x 7	8½	6
1	25.50	34.00	6¾	15	7 x 7	8¾	7½
2	34.50	44.50	7½	18¾	9 x 9½	10¾	10½

With red or green lens (special purpose) add \$3.00 each.
With 45 degree red lens (for suction dredges) add \$12.00 each.
With amber lens Sizes No. 0 and No. 2 only, add \$8.00 each.

Anchor Lights, Fig. 23

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

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



Fig. 23 or Fig. 129

Breakdown Lights, Fig. 129

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 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

ELECTRIC ONLY

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

With Fig. 289 Medium Screw Adapter, installed only in Sizes No. 2, 11 and 23, 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, installed only in Sizes No. 2, 11 and 23, add \$5.00 each.

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

COPPER LIGHTS MADE TO ORDER—PRICE ON APPLICATION

SELF CONTAINED BATTERY NAVIGATION LIGHTS

FOR OIL CARRIERS, BARGES, SCOWS, ETC.—3 MILE VISIBILITY
WATERTIGHT—WITH TOGGLE SWITCH—FOR 3 NO. 6 DRY CELLS IN SERIES

Side Lights
112½ Degrees

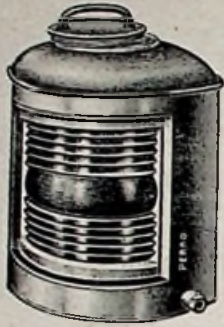


Fig. 1001

Masthead or
Range Light
225 Degrees



Fig. 1002

Stern
Light
135 Degrees

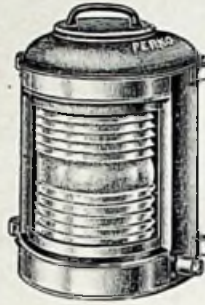


Fig. 1003

Standard No. 6 Dry
Cells used with
These Lights



	Fig. 1001		Fig. 1002		Fig. 1003	
	Red and Green Per Pair	Clear Each	Amber Each	Clear Each	Amber Each	
Galvanized	\$68.00	\$45.00	\$53.00	\$45.00	\$53.00	
Pol. Brass	85.00	53.50	61.50	53.50	61.50	
Spare Lenses	8.50	11.50	19.50	8.00	13.00	

Fig.	DIMENSIONS			Weight Less Batteries Pounds
	Lens Height Inches	Height Body Inches	Size Base Inches	
1001	6¾	11	7¼ x 7¼	18
1002	7½	13½	9 x 10	15
1003	7½	13½	9 x 10	12

Above prices include bulbs, no batteries. With batteries add \$3.75 per set of 3.

Spare bulbs, G. E. No. 518, 4 volts, .55 amps, miniature screw base, \$.40 each.

Note—If longer life of batteries and two mile visibility is desirable, use bulb G. E. No. 13, 3.8 volts, .3 amps.

Self Contained Battery Side Lights

2 MILE VISIBILITY—WITH SWITCH
112½ DEGREE RED AND GREEN LENSES



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	7½ x 7½

Above price includes bulbs, no batteries.

With batteries, add \$5.00 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.

30 Day Battery Anchor 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 red, green, blue or amber lens, add \$2.00 each.

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

Light shielded to 112½, 135 or 225 degrees, add \$7.00 each.

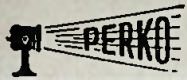
Prices include bulb. With batteries, add \$5.00 per set.

Spare bulbs, 6 volt .04 amp. miniature base, \$.40 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 OR ELECTRIC



Fig. 46

Front Inches	Size Body Side Inches	Height Overall Inches
9 x 13	7 3/4 x 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.

Please specify whether oil or electric.
Electric socket is medium screw.

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 12 or more.

Galvanized Steel Each	Height Lens Inches	Height Overall Inches	Diam. Bottom Inches	Capacity Fount Pints	Weight Pounds
\$75.00	7 1/2	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.

New Self Contained Flashing Light

360 DEGREE FRESNEL LENS
WATERTIGHT
WITH ELECTRONIC FLASHING TIMER,
RHEOSTAT AND WATERTIGHT SWITCH
60 TO 90 DAYS CONTINUOUS OPERATION

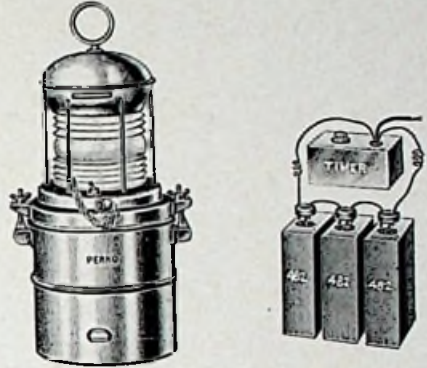


Fig. 495

This is a portable self contained battery operated flashing light or beacon which can be carried to any location and left without attention for the life of the batteries.

Operated by three 45 volt B batteries wired in series and through an electronic flashing mechanism or timer.

The speed of flashing can be controlled by the rheostat which is an integral part of the timer container.

The on-and-off toggle switch is placed on the outside of the light housing and covered by a brass screw type watertight cover.

At a speed of 30 flashes per minute one set of No. 482 batteries or their equivalent will operate 24 hours per day for 60 to 90 days with a 6 watt bulb.

Light is supplied complete with bulb, a set of No. 482 batteries, timer and rheostat, all wired ready for operation.

No.	Galv. Each	Polished Copper Each	Size Lens Inches	Height Overall Inches	Diam. Base Inches	Weight Pounds
1	\$75.00	\$79.00	4 1/4 x 4	16 1/2	6 1/2	12
2	89.00	93.00	5 1/2 x 5 1/4	18	6 1/2	15

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.

Spare bulbs, fig. 337, 110 volt 6 watt double contact base, \$.60 each.

Spare batteries, Eveready No. 482 or Burgess No. M-30 or Bright Star No. 30-33 available in all radio supply stores.

Spare timer with rheostat, \$40.00 each.

Spare lenses, see fig. 261.

Spare switches, see fig. 745.

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

Regulation Pier Lights, Fig. 59

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



Fig. 59

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 3/8	21	9 x 10	14 1/2	13

With flat top for medium screw 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 1/2	18	9 1/2	17

With flat top for medium screw electric only, same price as above.

Combination Oil and Electric, add \$3.00 each.

With red or blue lens, same prices as above.

Regulation Draw Bridge Lights, Fig. 63

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



Fig. 63

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 1/2	18	11 1/4	9 1/2 x 10 3/4	18

Electric only, medium screw, same price as above.

Combination Oil and Electric, add \$5.00 each.

Spare glass Panels, \$3.25 each.

Tri-Color Trawler Lights

FOR STEAM TRAWLERS

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

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

Above prices apply to fig. 407 oil only or fig. 408 electric only.

Fig. 407 electric only, same prices as above.

Fig. 407 oil and electric, add \$3.00 each.



Fig. 408
Electric only



Fig. 407
Oil or
Oil and Electric

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

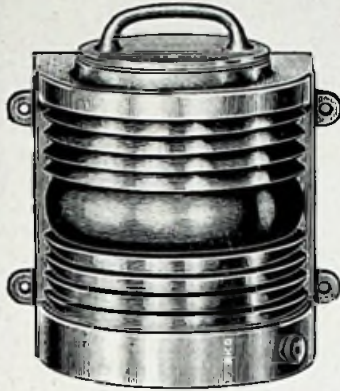


Fig. 1005

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 3/8 in.
Weight	19 1/2 lbs.

Each \$69.50

With clear, amber or green lens to order, at above price.
Spare lenses, see fig. 260.

Mid-Channel Light

360 DEGREE GREEN LENS

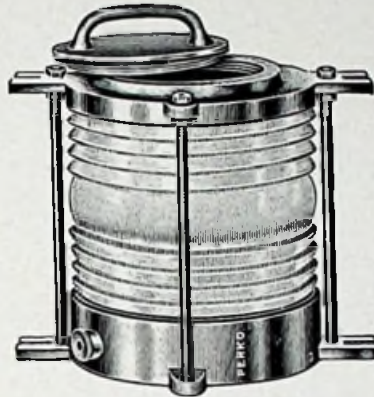


Fig. 1006

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

With clear or red lens to order, at above price.
Spare lenses, see fig. 261.

Draw Bridge Light

RED AND GREEN PANEL GLASSES
360 DEGREE CLEAR LENS

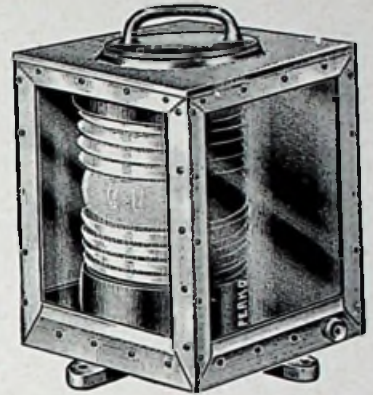


Fig. 1007

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	9x9 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	

With clear or amber lens to order, at above price.

Obstruction Light

ON PEDESTAL
360 DEGREE RED LENS

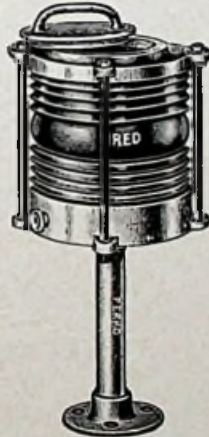


Fig. 126

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

With clear or green lens to order, at above price.

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.

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. 170R



Fig. 171



Ball Folded



Fig. 172



Fig. 173R



Frustum Folded



Fig. 175



Fig. 176

Fig. No.	Description	Diam. Inches	Height Inches	Weight Lbs.	Each
169	5 Black ball signal	24	24	2½	\$10.00
170R	3 Red ball signal	24	24	2½	14.50
170W	3 All white ball signal	24	24	2½	14.50
171	4 Black and white ball signal	24	24	2½	17.50
172	1 Black and white frustum	24	48	5	49.00
173R	2 Red frustum	24	48	5	49.00
173W	2 All white frustum	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. 1 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 suctions on 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 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.



UNITED STATES COAST GUARD

MOTORBOAT REGISTRATIONS & NAVIGATION FINES SECTION

Requirements for Motorboats NOT in Commercial Service

For complete details, contact local Coast Guard office or write to, Commandant, U. S. Coast Guard, Washington, D. C. for copy of "Motorboat Regulations" C.G. 168 latest issue.

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. (Approved.)			
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 ₂ extinguisher. None required on outboard motorboats, not carrying passengers for hire.	2—1-Qt. tetrachloride or 2-1 1/4 gallon foam or 2-4-lb. CO ₂ extinguishers.	3—1-Qt. carbon tetrachloride or 3-1 1/4 gallon foam or 3-4 lb. CO ₂ extinguishers.	



Newport Cabin Lamp

DOUBLE SWING—WEIGHTED BASE
ALL BRASS

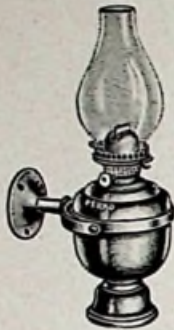


Fig. 141

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

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

No.	Each
1	Spare burners (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 of Fount 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

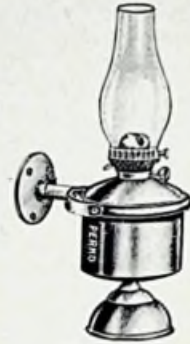


Fig. 137

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

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

Smoke Bell and Arm

ALL BRASS



Fig. 128

No.	Polished Brass Each	Chromium Plated Each	Diam. Bell Inches	Extension to Center Inches	Weight Ounc
1	\$2.50	\$3.50	4	3¾	4
2	2.50	3.50	4	4	4
3	2.50	3.50	6¼	5¾	6½
4	2.50	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
\$2.75	3⅛ x 2⅛	5⅝	2¾	10

Spare sockets with switch, \$.80 each.

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

Spare sockets with switch, \$.80 each.

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	1¼x1¾	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 32.

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 3/8

"Tear-Drop" Fixture

CHROMIUM PLATED
DOUBLE CONTACT SOCKET—TURN SWITCH



Front View



Side View

Fig. 301

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

Molded Plastic Shades

WHITE—IVORY—TAN



Fig. 174

Suitable for bulbs up to 60 watts.

Each	Height Inches	Diam. Inches	Weight Ounces
\$.50	3 1/2	4 1/4	2 1/2

Please specify color when ordering. Ivory shipped unless otherwise specified.

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 3/8	1 3/4
2	14.50	17.00	6	7 3/8	3 1/8	3 3/4

Marine Shields for Fixtures

PARCHMENT PAPER
HAND PAINTED OR PLAIN



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.

Painted Each	Plain Each	Width Inches	Depth Inches	Weight Ounces
\$2.00	\$1.75	4	3 3/4	1 1/2

Dome Light

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



Fig. 753

Will 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

WROUGHT BRASS

WITH FIG. 257 DIFFUSING GLASS

TOGGLE SWITCH—DOUBLE CONTACT SOCKET



Fig. 294

Diam. Inches Glass	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

WROUGHT BRASS

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

WROUGHT BRASS

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.

3. 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

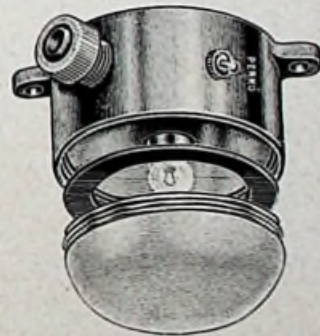


Fig. 1266

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.

Supplied complete with bulb.

G 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.

Automatic Lighting Fixtures

MEDIUM SCREW SOCKET
FOR REFRIGERATORS, CLOSETS, CABINETS,
LOCKERS, ETC.

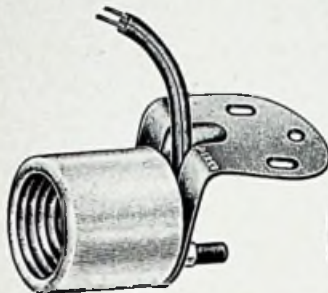


Fig. 151
With Flush
Bracket

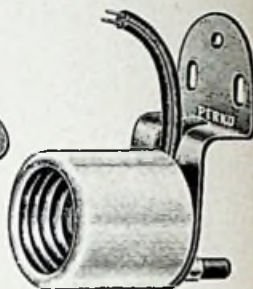


Fig. 152
With Offset
Bracket

Switches "on" when door is opened, "off" when door is closed.

Supplied with 5 feet of rubber covered cord.

	Fig. 151 Length Inches	Fig. 152 Length Inches	Fig. 151 Projection Inches	Fig. 152 Projection Inches	Weight Ounces
Each	$3\frac{1}{2}$	2	$\frac{1}{2}$	$1\frac{1}{2}$	6
	\$2.25				

Dashboard Lamp

BRASS—NICKEL PLATED
DOUBLE CONTACT SOCKET—WITH SWITCH

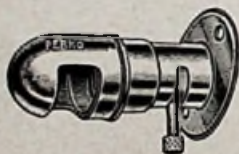


Fig. 184

Bulb is not included.

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

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. No bulb.

Each	Overall Length Inches	Length Handle Inches	Weight Ounces
\$4.00	8	4	7

Watertight Hand Portables

CAST BRONZE—WOOD HANDLE
THREADED GLOBE



Fig. 1180
With Medium
Screw Socket



Fig. 1256
With Bayonet
D.C. Socket

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

Fig. 1180

Fig. 1256

With Navy Standard Globe 9-S-3129-L

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.



"Perko" Zinc Marine Oilers

SPRING BRASS BOTTOM

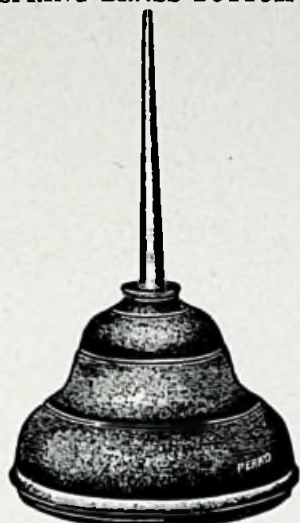


Fig. 326

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	\$ 95.00	\$30.00	8	4	4	40
4	125.00	33.00	12	4½	6	48

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

Brass Axe Brackets

18 GAUGE—POLISHED

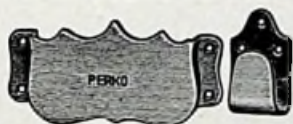


Fig. 325

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

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.

Ditty Bags

COMPLETE



Fig. 85

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

Complete, Each	\$4.25
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Steel Boat Bailers

GALVANIZED—RIVETED HANDLE



Fig. 180

Each	Diameter Inches	Weight Pounds
\$2.75	8¼	1

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



Fig. 582



Fig. 588

Delite Type

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

Price of Fig. 582 does not include holder illustrated.

Spring Type



Fig. 286



Fig. 736



Fig. 291



Fig. 292



Fig. 733

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

Swivel Type



Fig. 287



Fig. 293



Fig. 274



Fig. 735

Fig.	Each	Diameter Overall Inches	Opening In Light Inches	Weight Per Dozen Pounds	For Lights Figs.
274	\$2.00	4 1/2	4	4	02-11-69 and 44, 6 inch size
287	1.25	4 1/2	4	3	02-69 and 44, 6 inch size
293	2.00	4 1/2	4	4	02-11-69 and 44, 6 inch size
735	3.00	4 1/2	4	4 1/2	02-69

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

Single Electric
2 Wire
Medium Screw

Double Electric
2 Wire
Medium Screw

Electric
3 Wire
Mogul



Fig. 282



Fig. 288



Fig. 289



Fig. 1082

Size No.	Diameter Overall Inches	Diameter Opening in Light Inches	Fig. 282 Only Each	*Fig. 282 Complete Each	Fig. 289 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		5.25

*Complete with Burner, Wick and Chimney
Above are for the following lights.

SIDE LIGHTS

MASTHEAD LIGHTS

STERN LIGHTS

ANCHOR LIGHTS

BREAKDOWN LIGHTS

Fount No.	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

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

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 1/4	1 1/8	1 1/2

Mounting Brackets

GALVANIZED SHEET IRON

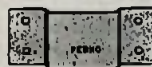


Fig. 25

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

For mounting Royal Lights Fig. 89 to 92 inclusive.

Color Shield

FOR COMBINATION LIGHTS
DIVIDES RED AND GREEN LENSES

Used on class 1 combination lights, Figs. 01-010-1-3.

Made of heavy gauge brass or galvanized iron.



Fig. 130

Galvanized Each	Polished Brass Each
\$1.00	\$1.25

Fig. 135





Fresnel Ball Globes

1 1/2 INCH DIAMETER

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



Fig. 604

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

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

2 1/2 INCH DIAMETER

With threaded base, as illustrated, for pole lights, Figs. 329, 362, 422, 482, 484, 491, 492, 498, 506, 531.



Fig. 250

Outside diameter	2 1/2 in.
Height overall	2 5/8 in.
Diameter of opening	1 1/2 in.
Diameter of thread	2 in.
Net weight, each	6 ozs.

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

3 INCH DIAMETER

With threaded base, as illustrated, for pole lights, Figs. 330, 362, 422, 482, 484, 491, 492, 498, 506, 531.



Fig. 251

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

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

3 INCH DIAMETER

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



Fig. 249

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

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

3 1/2 INCH DIAMETER

With threaded base for mast and stern lights, Figs. 83-112-113-145-309-1163.



Fig. 106

Outside diameter	3 1/2 in.
Height overall	5 in.
Diameter of opening	2 3/4 in.
Diameter of thread	3 1/8 in.
Net weight, each	1 1/4 lbs.

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

Special Mast Light Globe

2 3/4 INCH DIAMETER



Fig. 77

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

Outside Diameter Inches	2 3/4	Height Overall Inches	5 1/2	Diameter Opening Inches	1 3/8	Diameter Thread Inches	2 1/2	Weight Ounces	13
Clear Each	\$1.50	Red Each	\$2.30	Green Each	\$2.30	Blue Each	\$2.30		

Ribbed Diffusing Dome Glasses SHALLOW



Fig. 257

For Dome Lights Figs. 294-555-1147.

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

Frosted Dome Glasses SHALLOW



Fig. 132

For Dome Lights Figs. 296-753-1147.

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

Ribbed Opal Dome Globes



Fig. 133

For Dome Lights, Fig. 385.

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

FOR SIDE AND COMBINATION LIGHTS

112½ DEGREES

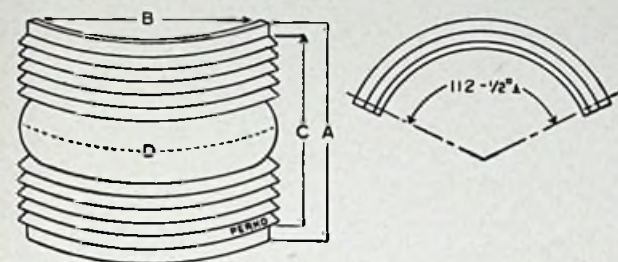


Fig. 259

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

For Vessels over 65 ft.	A	B	C	D	Red or Green Each
No. 8 Side	5 1/2	4 1/8	4 11/16	5 7/8	4.25
No. 9 or 10 Side	5 1/2	5 3/4	5	8 1/16	6.00
No. 1 or 10 Side	6 3/4	6	6	8 5/8	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

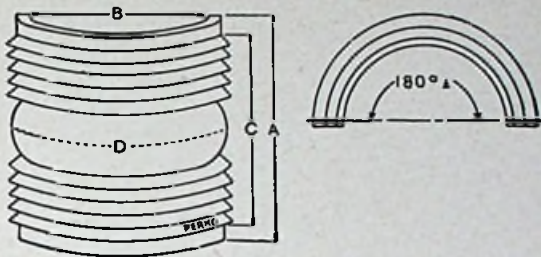


Fig. 260

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

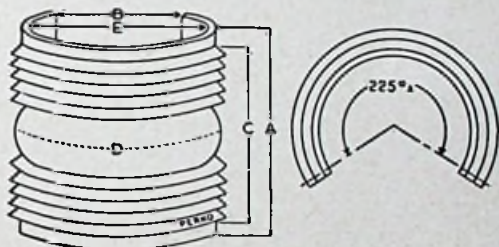


Fig. 256

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 3/8	6 3/4	16 3/8	6 1/2	11.50	19.50
No. 3	8 1/2	6 1/8	7 1/8	18 3/8	7 3/4	13.75	22.50

Size No. 3 in clear and red only, amber in sizes No. 0 and No. 2 only.

FOR ANCHOR LIGHTS—360 DEGREES

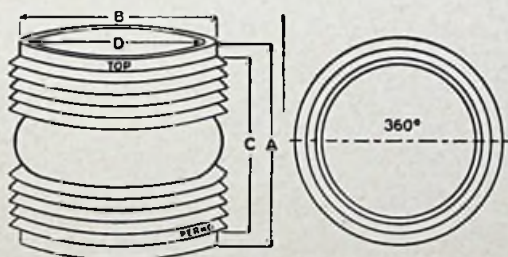


Fig. 261

For Motor Boats	A In.	B In.	C In.	D In.	Clear Each	Colored Each
Junior	3 1/8	3 3/8	2 7/8	2 3/4	\$1.50	\$2.00
Senior	4 1/4	4	3 9/16	3 1/16	2.00	3.00

For Vessels over 65 ft.	A	B	C	D	Clear Each	Colored Each
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, red and green only.

FOR STERN LIGHTS—135 DEGREES

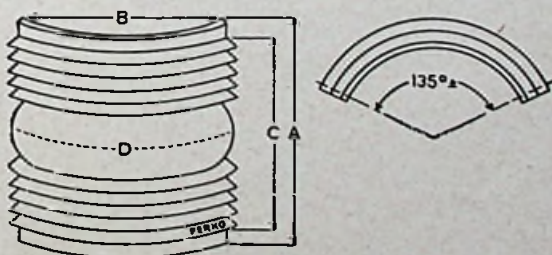


Fig. 269

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	13.00
No. 3	8 1/2	7 1/2	7 3/4	11 1/4	10.00	15.00

Colors are red, green or blue. Size No. 3 cannot be supplied in green. Amber in sizes No. 0 and No. 2 only.



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 1/4	3/8
2-A	14.40	1 1/4	3/8

Marcy Lip or Dual Chimneys



Fig. 267

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

Specify height of chimney when ordering.

Brass Burners



Fig. 246

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

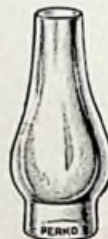


Fig. 230



Fig. 231

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

Flat Wicks



Fig. 302

	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

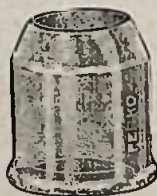


Fig. 272

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

Round Globes

FOR FIG. 44 GLOBE OR DISTRESS LIGHTS



Fig. 264

Supplied in clear, colored or frosted. Colors are Red Green or Blue. Solid, not painted.



Fig. 262

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

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

Clear Per Doz.	Red Per Doz.	Green Per Doz.	Blue Per Doz.
\$9.50	\$25.00	\$25.00	\$25.00

Colored globes are solid colors, not painted.

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 1/4
8	4.50	7.50	4	4	7 1/2
10	7.00	10.50	5 3/8	5 3/8	10 1/8

MAZDA LIGHTING BULBS

Double Contact Base



Fig. 337

Bulb No.	Diam. Inches	Length Overall Inches
13	$\frac{1}{10}$	$\frac{7}{8}$
131	$\frac{1}{8}$	$\frac{7}{8}$
518	$\frac{3}{4}$	$1 \frac{1}{16}$
1483	$\frac{5}{16}$	1
G- 4 $\frac{1}{2}$	$\frac{1}{8}$	1
G- 6	$\frac{3}{4}$	$1 \frac{1}{16}$
S- 6	$\frac{3}{4}$	$1 \frac{3}{4}$
G- 8	1	$1 \frac{3}{8}$
S- 8	1	2
PR-11	$1 \frac{3}{8}$	$2 \frac{1}{8}$

Medium Screw Base



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

Volts	Candle Power	No.	Base	Clear Each
1.3	.1 amp.	131	Min. Screw	.20
2.5	.15 amp.	S-8	D. C.	1.40
3.8	.3 amp.	13	Min. Screw	.25
4.0	.55 amp.	518	Min. Screw	.40
6	.04 amp.	1483	Min. Screw	.40
6	2	G-4 $\frac{1}{2}$	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-8	D. C.	.36
12	2	G-4 $\frac{1}{2}$	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	D. C.	.70
32	6	G-8	D. C.	.80
32	15	S-8	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
S-11	$1 \frac{3}{8}$	$2 \frac{1}{8}$

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.

Volts	Watts	No.	Base	Clear Each	Frosted Each
6	15	A-17	Medium	\$.85	\$.70
6	25	A-19	Medium		.70
6	50	A-21	Medium		.90
12	15	A-17	Medium	.95	.75
12	25	A-19	Medium		.75
12	50	A-21	Medium		1.00
32	15	A-17	Medium	.75	.60
32	25	A-19	Medium		.60
32	50	A-21	Medium		.60
120	25	T-10	Medium	.75	
120	10	S-14	Medium	.40	
120	60	A-19	Medium	.45	
120	100	A-21	Medium	.50	

Packed, 6 bulbs to a package.
Please specify, clear or frosted.

Double Filament Bulb

MOGUL BASE FOR THREE WIRE SYSTEM 120 VOLTS



Fig. 532

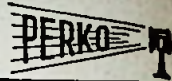
Eliminates the method of using two separate bulbs in two light electric installations. Lamps are always properly focused.

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.	$1 \frac{1}{4}$	$2 \frac{1}{8}$	\$.40
6-8		50	PR-11	D. C.	$1 \frac{3}{8}$	$2 \frac{3}{8}$	.45
6-8		100	G-16 $\frac{1}{2}$	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.	$1 \frac{1}{4}$	$2 \frac{1}{8}$	.45
12-16		50	PR-11	D. C.	$1 \frac{3}{8}$	$2 \frac{3}{8}$	.70
12-16		100	G-16 $\frac{1}{2}$	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.	$1 \frac{1}{4}$	$2 \frac{1}{8}$	1.25
32		50	PR-11	D. C.	$1 \frac{3}{8}$	$2 \frac{3}{8}$	1.75
32	2. amp.	100	G-16 $\frac{1}{2}$	D. C.	$2 \frac{1}{8}$	3	2.25
32	3.5 amp.	150	G-16 $\frac{1}{2}$	D. C.	$2 \frac{1}{8}$	3	2.75
32	256	8 amp.	P-25	Medium	$3 \frac{1}{8}$	$4 \frac{3}{4}$	5.50
32	400		G-30	Medium	$3 \frac{3}{4}$	$5 \frac{1}{8}$	8.00
120	100		G-16 $\frac{1}{2}$	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



Switch Panels

BLACK BAKELITE PANEL—WHITE LETTERING
BRASS, NICKEL PLATED TOGGLE SWITCHES
WITH OR WITHOUT FUSE HOLDERS

All lettering is engraved. "On" position of switch is indicated. Fuse holders are the enclosed type for glass fuses up to 30 amp.

SINGLE SWITCH PANEL



Fig. 516

Stock single panels are for, "Running Lights," "Anchor Light," "Searchlight," "Blower," "Wiper," "Cabin Lights," "Dome Lights," and "Bilge Pump." All others supplied to order.

With Fuse Holder Each	Without Fuse Holder Each	With Fuse Holder Size Inches	Without Fuse Holder Size Inches
\$3.50	\$2.50	4 1/2 x 1 1/4	3 3/4 x 1 1/4

5 GANG SWITCH PANEL



Fig. 517

Our stock panel is illustrated. Dealer or user may change name plates as desired as they are removable. For additional selection see Fig. 519.

With Fuse Holders Each	Without Fuse Holders Each	With Fuse Holders Size Inches	Without Fuse Holders Size Inches
\$16.25	\$11.25	6 1/2 x 4 1/2	6 1/2 x 3 3/4

Color Coded Electrical Junction Box

BAKELITE AND BRASS—6 TERMINALS

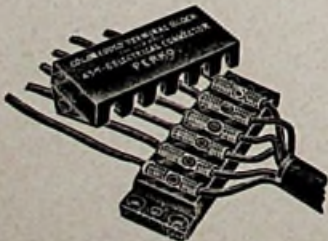


Fig. 648

Terminals are spring impelled riding on brass buss bars. No screws or snaps necessary for wire attachment.

Complete Each	Length Inches	Width Inches	Depth Inches	Weight Ounces
\$2.50	4	1 3/8	3/4	2 1/2

Starter and Ignition Switch Panel

BLACK BAKELITE PANEL—WHITE LETTERING
TWO POINT PUSH BUTTON STARTER SWITCH
LOCK TYPE IGNITION SWITCH



Fig. 518

Visible portion of both switches is chromium plated. Lock switch has two brass keys. Lettering is engraved in panel.

Complete Each	Length Inches	Width Inches	Weight Ounces
\$5.75	4 1/2	2 1/2	5

Switch Name Plates

BLACK BAKELITE—ENGRAVED WHITE LETTERING



Fig. 519

In addition to the above, stock name plates are "Horn," "Siren," "Fuel Pump," "Deck Lights," "Pilot," and "Panel Lights." All others supplied to order.

Per Dozen	Length Inches	Width Inches	Per Dozen Weight Ounces
\$7.20	1 1/2	1/2	1/2

Packed one dozen each name per box.

Fuse Panel

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

No. 1 for one active fuse and one spare.

No. 2 for two active fuses and one spare.



Fig. 694

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

Lighting Switches

FOR ALL VOLTAGES FROM 6 TO 120

**TOGGLE TYPE
BRASS—BAKELITE INSULATION**



With 2 lock nuts and 6" wire leads.

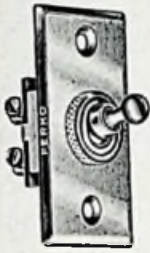
Each	Length Neck Inches	Diam. Neck Inches
\$.60	1/2	1 1/2

Maximum between lock nuts 1 1/8".

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

Fig. 745

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

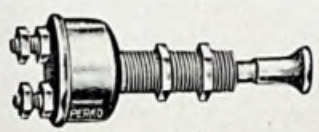


Polished Brass Each	Chromium Plated Each	Size Face Plate Inches
\$.80	\$.95	1 x 1 3/4

Fig. 718

New Push and Pull Switch

ALL BRASS THROUGHOUT



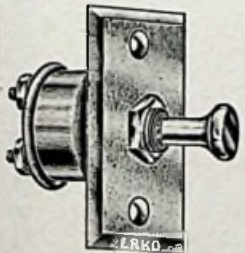
Polished Brass Each	Chromium Plated Each
\$.80	\$ 1.00

Diam. Neck In.	Lgth. Neck In.	Lgth. Overall In.
3/8	1	2 3/4

Fig. 105

New Push and Pull Switch with Face Plate

ALL BRASS THROUGHOUT



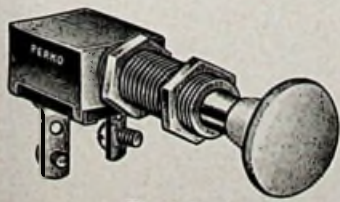
Polished Brass Each	Chromium Plated Each
\$ 1.00	\$ 1.20

Neck Diam. Inches	Diam. Body Inches	Dimensions Face Plate Inches
3/8	1 1/8	1 x 1 3/4

Fig. 216

Push and Pull Switch

HEAVY DUTY—WITH IVORY KNOB



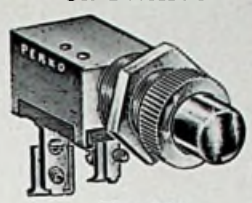
Heavy duty 2 point 2 terminal with ivory tenite knob.
Neck for 3/8 inch wood, 3/8 inch hole.

Each \$.90

Fig. 94

Momentary Starter Switch

OR DASHBOARD HORN BUTTON



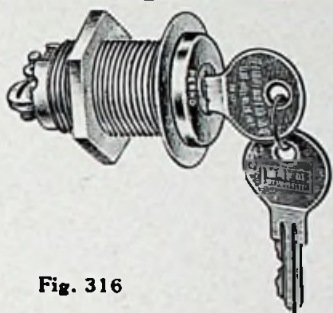
2 point 2 terminal spring action switch with chromium plated button.

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

Each \$ 1.30

Fig. 255

Ignition Lock Switch



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

2 terminal lock switch with two keys.

Neck for 1 inch wood, 3/8 inch hole.

Each \$ 1.95

Fig. 316

Knife or Battery Switches

FIBRE BASE—SINGLE POLE—30 AMP.



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

Fig. 70

FLAT TYPE



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

Fig. 74

Ship to Shore Heavy Duty Connector

110 VOLT—25 AMPS.
BAKELITE AND RUBBER CONSTRUCTION
ALL BRASS METAL PARTS

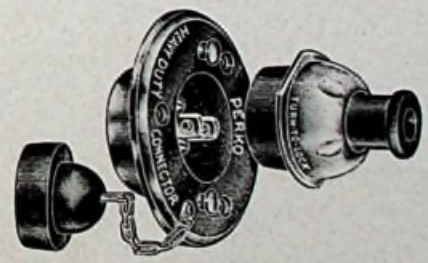


Fig. 72

Bakelite base has heavy duty male terminals. Plug is phenolic with bronze female prongs, all rubber covered. Will accommodate No. 10 wire. Plug locks in base. A chained rubber cap for base when disconnected.

Each	Diam. Base Overall Inches	Depth of Base Inches	Diam. Hole Required Inches	Weight Ounces
\$ 2.40	3 1/8	3/4	1 3/4	5



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 $\frac{1}{8}$	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 $\frac{1}{8}$ inch O. D. cable.

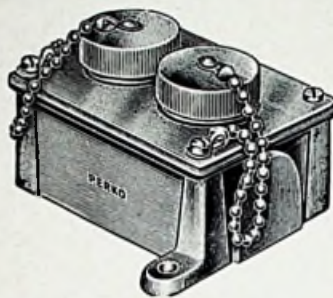


Fig. 1265

GANG TYPE		
2 wire only		
Gang	Size Inches	Weight Pounds
2	4 $\frac{1}{8}$ x 3 x 2	3
3	6 $\frac{1}{4}$ x 3 x 2	3 $\frac{3}{4}$
4	8 x 3 x 2	5 $\frac{1}{2}$

Receptacles

FURNISHED UNTAPPED UNLESS SPECIFIED
MAXIMUM I. P. S. THREAD $\frac{3}{4}$ INCH



Fig. 1262

SURFACE TYPE

2 wire only

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

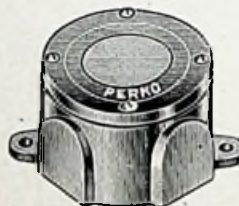


Fig. 1257

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 $\frac{3}{4}$

Watertight Connection Box CAST BRONZE—SURFACE TYPE

With 4 wire phenolic connection block and rubber gasket.

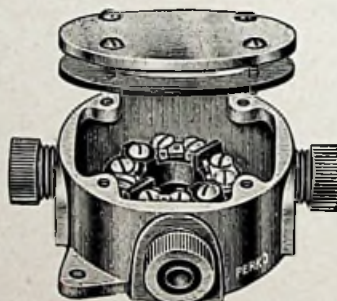


Fig. 1252

Complete Each \$5.25
Spare Blocks Each \$1.50

Inside Diam. Inches	Inside Depth Inches	Weight Pounds
3	1 $\frac{3}{8}$	1 $\frac{3}{4}$

Price does not include packing glands in illustration.

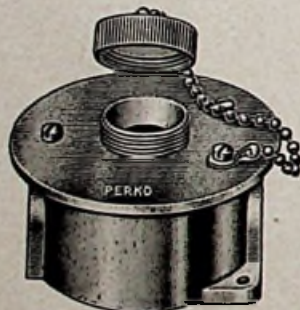


Fig. 1263

FLUSH TYPE

2 wire only

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

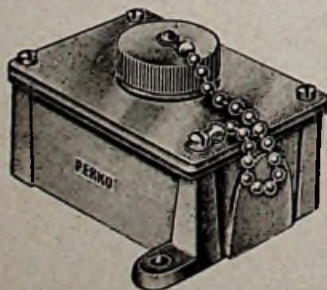


Fig. 1264

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		

Watertight Fuse Box CAST BRONZE—SURFACE TYPE

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

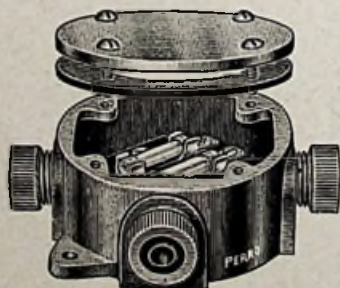


Fig. 1255

Complete Each \$6.25
Spare Fuse Block Each \$2.00

Inside Diam. Inches	Inside Depth Inches	Weight Pounds
3	1 $\frac{3}{8}$	1 $\frac{3}{4}$

Price does not include fuses or packing glands in illustration.

NOTE — ALL BOXES ABOVE CAN BE FURNISHED WITH PACKING GLANDS FOR CABLE ENTRANCE AND 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

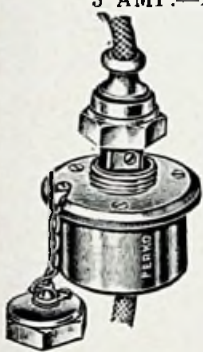
FLUSH TYPE WITH BOX
5 AMP.—BOTTOM INLET—2 WIRE



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

Fig. 972

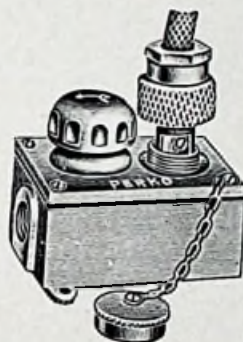
HEAVY DUTY TYPE—10 AMP.—2 WIRE
WITH TURN SWITCH



Complete With Plug Each	Plug Only Each	Diam. Plate Inches	Diam. Box Inches	Depth Box Inches
\$8.00	\$3.00	2 1/4	1 5/8	1 1/4

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	4 1/2	2 1/2	2

Fig. 973

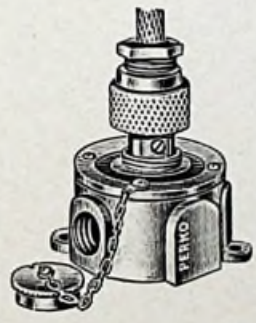
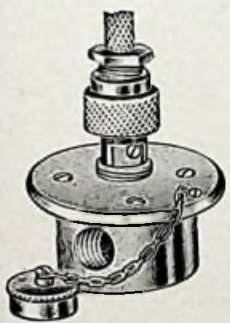


Fig. 970
Flush Type

Fig. 971
Surface Type

Fig. 970 Complete Each	Fig. 971 Complete Each	Plug Only Each
\$10.00	\$9.00	\$3.00

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

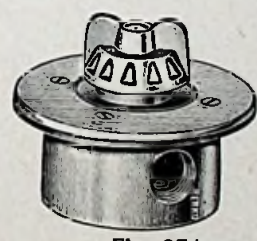


With nickel silver springs, platinum contacts, rubber gaskets and pig skin cap over button. With screws.

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

Fig. 978

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



Ratchet under knob to prevent turning in wrong direction.

	Diam. Plate Inches	Diam. Box Inches	Depth Box Inches
Flush Type	4	3	1 1/2
Surface Type		3	1 1/2

Fig. 974

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

Watertight Push Buttons CAST BRONZE



Tapped one way for 1/2 inch conduit.

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

Fig. 975

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 Doz Pout
1	\$.50	1/8	1 1/8	1 3/8	1
2	.50	3/8	1 1/8	1 3/8	1

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

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 Ounce
\$2.75	2 1/4	2 1/8	1 3/8	6

With white metal mounting cap tapped 3/8 inch I. P. add \$.30 each.

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

Socket Supports

BRASS—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 Ounce
1	\$.90	1	3/8 x 2 3/4	2 1/4	1 1/2
2	1.20	2 1/4	3/8 x 2 3/4	2 1/4	3

Medium Screw Sockets

PORCELAIN—250 VOLTS—660 WATTS

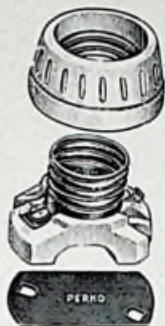


Fig. 222

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.

Electric Socket Adapters



Fig. 405

For Converting various types of sockets.

No.	Each
650—From Bayonet Dble. Contact to Med. Screw	\$.70
670—From Med. Screw to Bayonet Dble. Contact	.80
680—From Med. Screw to Bayonet Single Contact	.80
830—From Med. Screw to Foreign Bayonet D. C.	.90
X12—From Mogul to Medium Screw	.95

Bayonet Double Contact Socket

BRASS CASE—TAPPED 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 3/8	7
1	.65	1 5/8	8
2	.65	2	11
3	.65	2 3/8	14

Socket Support

BRASS—FOR FIG. 276 SOCKET

Threaded 1/8 inch I. P. S.
Complete with screws for installing.

Each	Height Inches	Size Base Inches	Weight Dozen Ounces
\$.60	3/8	3/8 x 1 1/2	6

Fig. 277

Bayonet Double Contact Socket

BRASS CASE—HARD RUBBER INSULATION

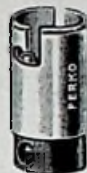


Fig. 747

No.	Each	Length Inches	Diam. Inches	Weight Dozen Ounces
1	\$.35	7/8	1 1/4	5
2	.35	1	1 1/4	5
3	.35	1 1/4	1 1/4	6
4	.35	1 1/4	1 1/4	6
5	.35	1 1/4	1 1/4	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. 563, 1138, 1140, 1140A.

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 1/8	1 x 1 1/2	12
76	.65	1 1/8	1 x 1 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 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

Double Contact Connectors

HARD RUBBER INSULATION—BRASS CONTACTS WITH SOFT RUBBER WATERPROOF CAPS

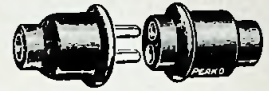


Fig. 749

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

Bayonet Double Contact Socket

FLANGED TYPE—BRASS AND HARD RUBBER



Fig. 377

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

New "Midget" Connectors

BAKELITE BODY—BRASS CONTACTS DOUBLE CONTACT



Fig. 26

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 3/8	6

Bayonet Double Contact Adapter

ALL BRASS



Fig. 458

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

Per Set, Complete\$1.45

Bayonet Double Contact 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. 746 has soft rubber waterproof cap.

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



Fig. 355

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

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

Brass Cable Straps

FOR CABLE, TUBING, CONTROL WIRE, ETC.



Fig. 121

Inside Diam. Inches	Per 100	Length Inches	Weight Dozen Ounces
1/8	\$1.80	1 1/8	1 1/8
3/16	2.00	1 1/4	1 1/4
1/4	2.20	1 1/2	1 1/2
5/16	2.20	1 3/8	1 3/8
3/8	2.30	1 3/4	1 3/4
1/2	2.50	1 1/2	1 1/2
5/8	2.75	1 3/4	1 3/4
3/4	3.30	1 3/4	1 3/4
	3.60	1 7/8	1 7/8

Brass Dagger Connectors



Fig. 283

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

Each Set (as illustrated) \$.25

FOR LEAD COVERED CABLE



Fig. 1076

Per 100	Size Inside Inches	Length Inches	Weight Dozen Ounces
\$3.50	1 1/2 x 1 1/8	1 1/4	1 1/2

AUTHENTIC MARINE TABLE LAMPS

WITH HAND PAINTED SHADES

Presenting an attractive assortment of table lamps designed for those who have a natural love for the sea and vessels that sail upon it, and who desire a nautical atmosphere or motif in their surroundings, be it their home, boat, office, club or eating place.

Manufactured and designed by this country's oldest and most highly regarded manufacturer of navigation lights, these lamps are the real thing, not imitations.

All lenses are true molded fresnels made to government requirements for navigational purposes, in light projection and color. Colors (Red, Green, Blue, etc.) are molded into the lens, not coated or painted on.

Shades are all paper parchment, hand painted in colorful nautical scenes.

Metal parts are all solid brass or cast bronze, polished or chromium plated. NOT LACQUERED.

All wired and complete with extension and plug.

"Nautilus"



Fig. 1210-A or B

"Corsair"



Fig. 1211

"Neptune"



Fig. 1212-A or B

Above are equipped with two Keyless Sockets, one under the shade, the other inside globe or lens. A three way turn switch for light above or below or both.

Fig.	Lamp Only		Shade Only Each	Height Inches	Diam. Base Inches	Size of Shade Inches	Size of Globe Inches	Weight Pounds
	Polished Brass Each	Chromium Plated Each						
1210-A	\$25.00	\$31.00	\$5.50	19	4 1/4	9x15x 9	6	3
1210-B	29.00	36.00	7.75	21 1/2	5 3/4	10x18x10 1/2	8	4
1211	15.00	17.50	4.00	14	4 1/4	6x10x 6 1/2	3 1/8 x 3 1/8	2
1212-A	18.50	22.00	5.50	18 3/4	5 3/4	10x14x 9	4 1/4 x 4	3
1212-B	23.50	27.50	7.75	21 1/2	7	10x18x10 1/2	5 1/2 x 5 1/4	4 3/4

Height shown above is from base to top of shade. Sizes of Shade shown above are 1st, diameter of top, 2nd, diameter of bottom, 3rd, height.

Prices shown above apply to Fig. 1210 with white frosted globe, Figures 1211 or 1212 with clear fresnel lenses.

Fig. 1210 with colored globe (red, green, or blue) add \$3.00 each.

Fig. 1211 with colored lens (red, green, blue or amber) add \$.50 each.

Fig. 1212-A with colored lens (red, green, blue or amber) add \$1.00 each.

Fig. 1212-B with colored lens (red, green, blue or amber) add \$4.50 each.



“Mariner”



Fig. 1213

“Voyager”



Fig. 1214

“Seafarer”



Fig. 1215

“Skipper”



Fig. 1216

“Trade-Wind”



Fig. 1217

Fig.	Lamp Only		Shade Only Each	Height Inches	Diam. Base Inches	Size of Shade Inches	*Diameter Wheel Inches
	Polished Brass Each	Chromium Plated Each					
1213	\$16.00	\$18.50	\$3.50	15	5 1/2	5x 9x6 1/2	4 3/8
1214	14.00	16.50	**2.85	15	5 1/2	5x 9x6 1/2	
1215	14.00	16.50	3.50	15	5 1/2	5x 9x6 1/2	
1216	26.00	32.00	5.50	20 1/2	5 3/4	10x 14x9	8 1/2
1217	20.00	26.00	5.50	20 1/2	5 3/4	10x 14x9	

Height shown above is from base to top of shade.

Sizes of shade shown above are 1st, diameter of top; 2nd, diameter of bottom; 3rd, height.

NOTE—Shades are interchangeable, i.e., if lamp Fig. 1213 is preferred with shade Fig. 1215, etc.

Or if lamp Fig. 1216 is preferred with shade Fig. 1217 etc. Please specify.

*Diameter of wheel is measured from end to end of handles.

**This shade has printed map of the world. All others are hand painted.

All lamps on this page have weighted base.

"Sea-Gull"



Fig. 1218

A small colorful lamp ideally suited for children's room or night table.

Has two marine fresnel lenses, one red, the other green. Creates an attractive night light which does not disturb slumber.

Has sockets in top and bottom with three-way switch and a hand painted nautical shade.

"Sea-Chord"



Fig. 1219 A or B

A real ship's bell harmoniously mounted to create a truly nautical lamp.

Base is weighted for firm support.

Lamp Only		Shade Only Each	Height Inches	Diameter Base Inches
Polished Brass Each	Chromium Plated Each			
\$14.00	\$16.50	\$3.00	12½	4½

Size of Shade Inches	Weight Pounds
4x8x6	1¼

No.	Lamp Only		Shade Only Each	Diameter of Bell Inches
	Polished Brass Each	Chromium Plated Each		
1	\$15.00	\$18.00	\$4.50	6
2	17.00	21.00	5.00	8

Plain Shades FOR TABLE LAMPS PAPER PARCHMENT



Fig. 1220

For those who prefer to paint or mount their own designs, photos, decals, etc.

No.	Each	Diameter Top Inches	Diameter Bottom Inches	Height Inches	Weight Ounces
1	\$2.25	5	9	6½	6
2	3.75	10	14	9	10

Size No. 1 has spring clip for bulb and is suitable for lamps Fig. 1211, 1213, 1214, 1215.

Size No. 2 has washer for mounting on harp and is suitable for lamps Fig. 1212, 1216, 1217.

No.	Height Inches	Diameter Base Inches	Size of Shade Inches	Weight Pounds
1	17	6	8x14x9	4
2	20	6	9x15x9	6

"Yacht" Ash Tray

DIE CAST ZAMAC METAL (Zinc and Aluminum) CHROMIUM PLATED

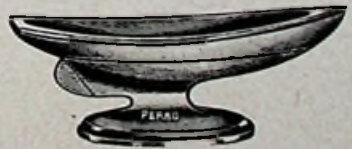


Fig. 378

A very attractive nautical ash tray for a boat, yacht club or home.

Each	Length Overall Inches	Width Inches	Weight Ounces
\$2.95	5¾	1¾	12

"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.

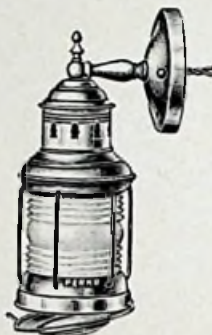
Exceptionally desirable for homes along the waterways, yacht clubs, establishments with marine motif or nautical atmosphere, marine rooms or dens, etc.

All complete with Coast Guard approved medium screw electric socket in the upper section and a hinged door 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 1/8 x 3 1/8	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



Wall Type
Fig. 859



Ceiling Type
Fig. 860

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	\$12.50	\$16.50	\$11.00	\$14.75	1	\$12.50	\$16.50	\$11.00	\$14.75
2	14.25	18.25	12.75	16.50	2	14.25	18.25	12.75	16.50
3	22.00	28.00	20.00	25.50	3	22.00	28.00	20.00	25.50

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

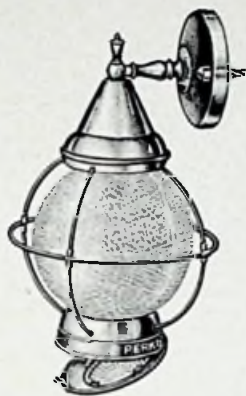
Size 3, add \$4.50 each.

With open bottom, no globe or hinged frame, deduct \$1.00 each.

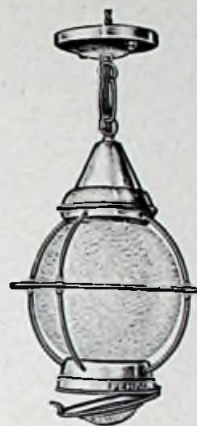
Whaler Pattern

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	4½	4½	2¾
2	26.00	34.00	23.50	28.50	14	8	4½	4½	4¼

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
\$22.50	11¾	6¾	3½



“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
 SIZE NO. 3 — 6 AND 12 VOLT — 100 WATT — RANGE ABOUT 1/2 MILE — 200,000 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 when rod passes thru pilot house roof.

Deck Control
 WITH TOGGLE SWITCH IN HEAD
 WIRING NOT VISIBLE



Fig. 436

No.	6 Volt		Diam. Lens Inches	Diam. Base Inches	Height Above Deck Inches	Weight Pounds
	Polished Brass Each	Chromium Plated Each				
1	\$16.50	\$18.00	4 1/2	4	9	2
2	19.50	21.50	6	4	10 1/2	2 1/4
3	22.50	25.00	7	6 1/4	13	4

12 volt, sizes No. 2 and 3 only, add \$1.50 each.

Pilot House Control
 WIRING NOT VISIBLE



Fig. 437

Length of control below base, 8 inches.

No.	6 Volt		Diam. Lens Inches	Diam. Base Inches	Height Above Deck Inches	Weight Pounds
	Polished Brass Each	Chromium Plated Each				
1	\$27.00	\$29.00	4 1/2	4 1/8	8 3/4	2 3/4
2	29.00	31.50	6	4 1/8	10 1/4	3
3	33.00	37.00	7	6 1/4	13 1/2	5

12 volt, sizes No. 2 and 3 only, add \$1.50 each.

Deck Control
 WITH TOGGLE SWITCH IN HEAD
 RUBBER COVERED WIRING VISIBLE

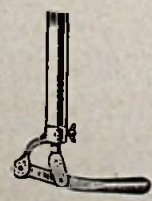


Fig. 454

No.	6 Volt		Diam. Lens Inches	Diam. Base Inches	Height Above Deck Inches	Weight Pounds
	Polished Brass Each	Chromium Plated Each				
1	\$13.50	\$15.00	4 1/2	4	9	2
2	16.50	18.00	6	4	10 1/2	2 1/4
3	19.50	21.00	7	6 1/4	13	4

12 volt, sizes No. 2 and 3 only, add \$1.50 each.

NOTE—Size No. 3 is equipped with lever type control shown below instead of ball.



Lever type control supplied with Fig. 437 Size No. 3 only at prices shown above.

New Telescoping Searchlights

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

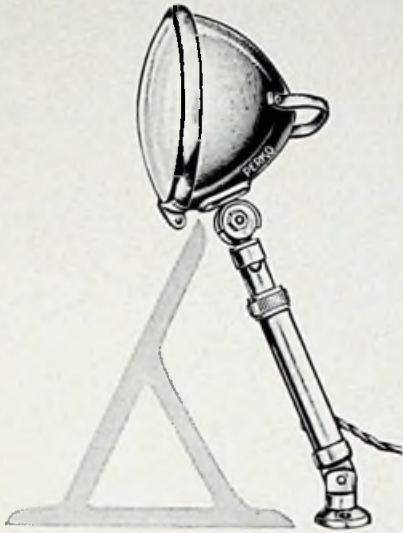


Fig. 240

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	\$27.00	4½	3x1½	3
2	24.50	28.50	6	3x1½	3¼

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 ¼ MILE

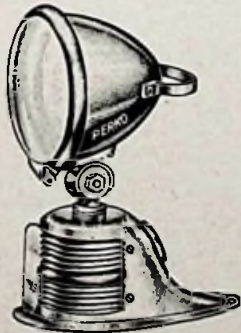


Fig. 416

The searchlight is our 4½ 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	3¼x6¼	2¼

New Remote Control Searchlights

FOR OPERATION FROM DASH
SEALED BEAM—6 OR 12 VOLTS

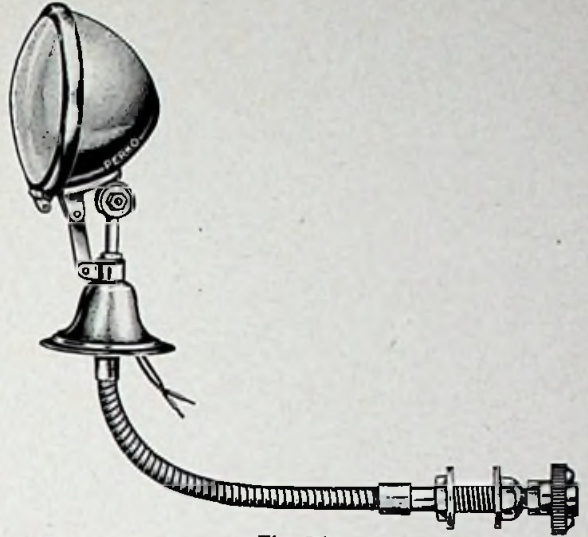


Fig. 241

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	6 Volts		Weight Pounds
			Polished Brass Each	Chromium Plated Each	
1	4½	10½	\$37.50	\$42.50	2½
2	6	12	38.00	43.00	3

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

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

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. Lens Inches	Watts	Beam C. P.	Range About
1	\$2.80		4½	30	50M	¼ mile
2	3.00	\$4.00	6	40	115M	⅓ mile
3	5.50	6.50	7	100	200M	½ mile



Sealed Beam Searchlights

POLISHED BRASS OR CHROMIUM PLATED
WITH CLEAR LENS—NOT FLUTED

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.

WITH CLAMP-ON BRACKET
WITH TOGGLE SWITCH IN HEAD

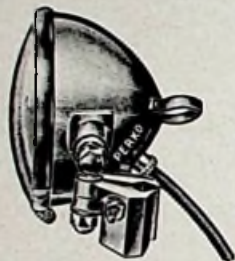


Fig. 438

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	Range About	Watts	Weight Pounds
	Polished Brass Each	Chromium Plated Each				
1	\$19.00	\$21.50	4½	¼ mile	30	2
2	20.00	22.50	6	⅓ mile	40	2½

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

WITH SCREW-ON BRACKET
WITH TOGGLE SWITCH IN HEAD

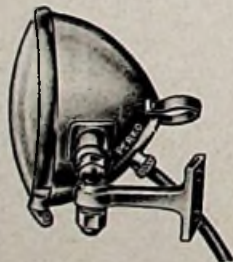


Fig. 439

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	Range About	Weight Pounds
	Polished Brass Each	Chromium Plated Each				
1	\$19.00	\$21.50	4½	2½ x ¾	¼ mile	2
2	20.00	22.50	6	2½ x ¾	⅓ mile	2½

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

"Sunbeam" Searchlights

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

RANGE—ABOUT ½ MILE
For higher power see notes below.

Pilot House Control



Fig. 306

No.	Polished Brass Each	Chromium Plated Each	Diam. Reflector Inches	Diam. Lens Inches	Height Above Deck Inches	Base Diam. Inches
4	90.00	104.00	8	7	14	5½

Length control rod below base, 10 inches.

No. 4 has magnin mirror reflector and 100 C. P. bulb range about ¾ mile.

Deck Control

WITH TOGGLE SWITCH IN HEAD



Fig. 305

No.	Polished Brass Each	Chromium Plated Each	Diam. Reflector Inches	Diam. Lens Inches	Height Above Deck Inches	Base Diam. Inches
4	58.00	68.00	8	7	14	5½

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 41 and 58.

"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.

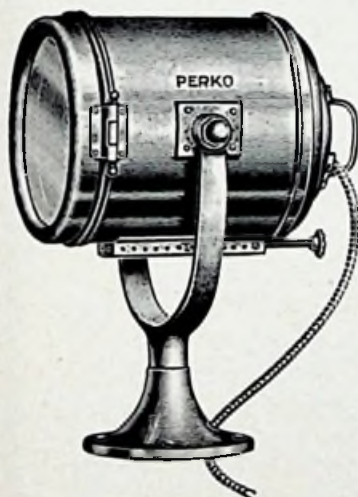
REFLECTORS—a glass mirror reflector, which projects a highly concentrated beam of light a great distance.

FOCUSING DEVICE—of patented design, containing no wires to twist or break; very easy to control.

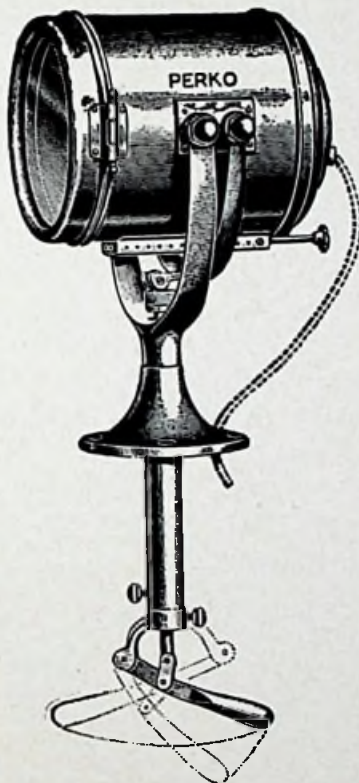
PILOT HOUSE CONTROLS—are of the wheel or lever type, both having their distinct advantages.

WIRING—enclosed in flexible metal hose, fully protected from weather.

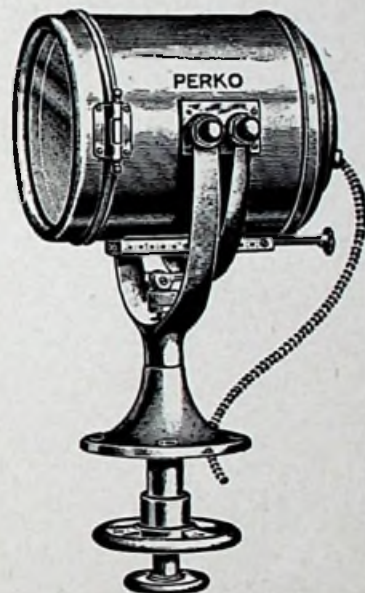
BULBS—Bulbs furnished as standard equipment in various voltages are as follows—6 volts, 18 amps.; 12 volts, 18 amps.; 32 volts, 8 amps.; 120 volts, 500 watt. Can also furnish 32 volt, 400 watt and 120 volts, 250, 400 or 1000 watt bulbs for additional price. See notes below.



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 1/8
10	10	up to 1 mile	590,000	14 3/4	9 1/2	21	34	6 7/8
12	12	up to 1 1/2 miles	700,000	17	11 3/4	24	41	6 7/8
14	14	up to 2 miles	850,000	19	13 1/2	26	56	8 1/8

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

NOTES

With 32 volt 400 watt bulb, add \$2.00 each.
 With 120 volt 250 or 400 watt bulb, add \$1.25 each.
 With 120 volt 1000 watt bulb (special construction) price on application.
 Spare bulbs, reflectors, lenses, etc. See pages 41 and 58.

Standard length of control below base, Fig. 297 all sizes from base to fulcrum of handle, 8 inches. Fig. 529 all sizes, from base to center of upper wheel rim, 6 1/2 in. Special length of pilot house control to order, price on application.
 Spare medium screw sockets, \$.30 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

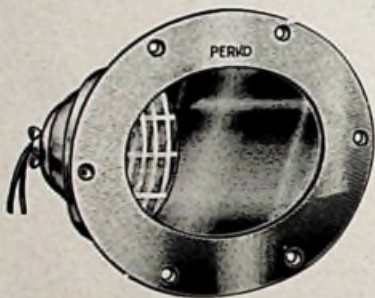


Fig. 335

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—Figs. 335 and 336 with amber fog light lens ADD \$.50 each.

Spare sealed beam units, clear \$2.40 each. Amber \$2.80 each.

Mirror Reflectors FOR SEARCHLIGHTS



Fig. 427

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

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

Metal Reflectors FOR SEARCHLIGHTS BRASS—CHROMIUM PLATED



Fig. 428

Extreme Diam. Inches	Each	For Searchlights Fig. and Size
7	\$6.50	Old 1022-1023
7¾	7.25	305-306 No. 3

Cork Gaskets for Reflectors, \$.50 each.

Front Lens FOR SEARCHLIGHTS

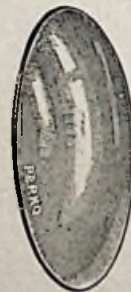


Fig. 429

Diam. Inches	Each	Style	For Searchlights Fig. and Size
7	\$1.85	Convex	Old 1022-1023
7¾	2.00	Convex	305-306 Nos. 3 & 4
8¾	2.25	Flat	297-480-529- 8 incl
10¼	2.60	Flat	297-480-529-10 incl
12¼	3.25	Flat	297-480-529-12 incl
14¼	4.25	Flat	297-480-529-14 incl

Floodlights

ENCLOSED — WEATHERPROOF

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

CLAMP TYPE
with Mogul Socket

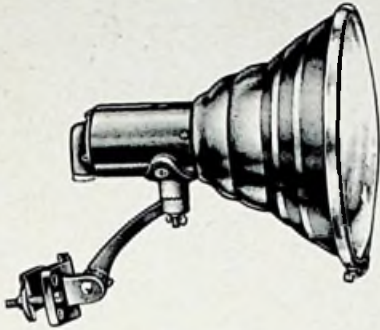


Fig. 227

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.

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

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.

Each	Diam. Lens Inches	Length Housing Inches	Diam. Base Inches	Maximum Wattage	Weight Pounds
\$8.00	7½	8	4¼	100	3

UTILITY TYPE
with Medium Screw Socket



Fig. 229

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

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

Each	Diam. Lens Inches	Length Housing Inches	Maximum Wattage	Weight Pounds
\$11.50	7½	8	100	5½

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

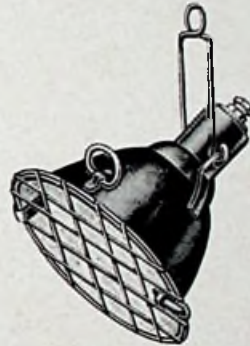


Fig. 36

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

New "Perko" Spherical Compass

4 INCH—WITH 1° COMPASS CARD
 PLEXIGLASS DOME—UNDERLIGHTED
 COPPER AND BRASS HOUSING—BLACK FINISH
 WITH GLARE SHIELD AND CHOICE
 OF MOUNTINGS

The Mariner



Fig. 400

The interior of this compass is a true sphere eliminating need for a gimbal mounting. The dial is constructed to allow a free 30° tilt making a steady compass in all weather.

The card is the preferred 1° type marked to 360° with cardinal and intercardinal points shown. Sets a more accurate course than the 5° type.

Lighted from below through the edge of the plexi-glass dome producing a soft non-glare light on top of the card. The electric socket is the candelabra type which will accommodate a bulb up to 110 volts. 6 volt is standard equipment.

This compass may be mounted directly to shelf or deck through lower part of outer shell which is removable.

The bracket permits vertical or horizontal mounting or any angle in between.

The flush mounting ring is generally used on a high shelf or on a boat with excessive vibration.

The price includes the glare shield. The bracket or flush ring is extra.

Compass Each	Bracket Each	Flush Ring Each	Diam. Overall Inches	Height Overall Inches	Weight Pounds
\$31.50	\$2.50	\$2.50	5 1/2	5 1/2	4

"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 hubble 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
2 1/2	2 1/8	13.75	4 1/4	5 3/8 x 5 3/8
3	3 1/8	18.75	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	31.25	6 7/8	8 1/2 x 8 1/2
6	5 1/4	41.00	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

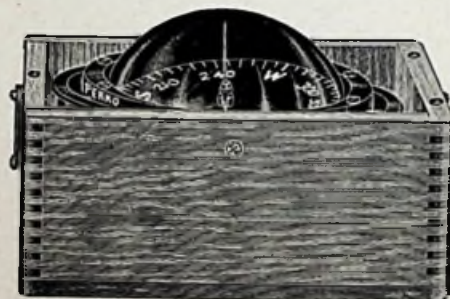


Fig. 463

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 13 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 1/8
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.

"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	4½	47.00	71.00	15.00	6⅞
6	5¼	56.00	81.00	18.00	8⅜

"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	2¼	2¼	4	3	11
34	13.25	2¼	2¼	4½	2⅝	12

Electric Compass Light

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

NOTE — Shield will accommodate a G-6 bayonet D.C. bulb 6, 12 or 32 volt.

Fig. 707

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	6½	5⅜	6¾	4⅞	1
4	7½	6½	9	6	1⅓
5	8¾	7⅞	10	7⅞	2¾

For Size Compass Inches	Without 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

Skylight Binnacle

BRASS



Fig. 534



Night Hood

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	6½	10	6
2	5	11¾	7⅞	10	7⅞

No.	Without Polished Brass Each	Compass Chromium Plated Each	With Oil Polished Brass Each	Compass Chromium Plated Each
1	\$52.00	\$59.00	\$74.50	\$81.50
2	56.50	63.50	85.50	92.50

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.



New Lucite Parallel Rules

TRANSPARENT
WITH BRASS, CHROMIUM PLATED BARS

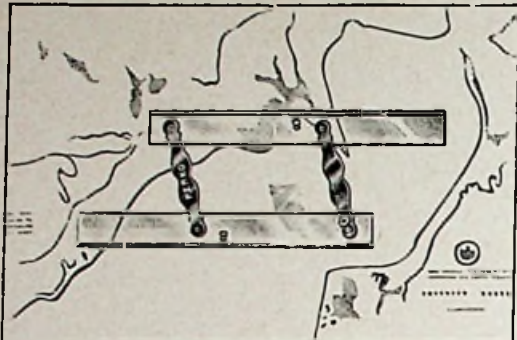


Fig. 630

A new transparent rule of heavy lucite through which the chart data can be easily seen. Supplied with finger grips and tightening device.

Length Closed Inches	Each	Width Closed Inches	Weight Ounces
12	\$5.60	2½	5
15	6.90	2½	6½

Parallel Rules

EBONY FINISH—BRASS, NICKEL PLATED PARTS

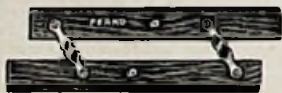


Fig. 686

Length Closed Inches	Each	Width Closed Inches	Weight Ounces
12	\$3.50	2½	6
15	4.00	2½	6½
18	5.00	2½	7

Dividers

BRASS—NICKEL PLATED—NAVY TYPE



Fig. 693

Length, 5½ inches, each\$2.50
Length, 7 inches, each 2.80

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

Improved Course Protractor

INDICATES COURSE AND REVERSE COURSE
TRANSPARENT

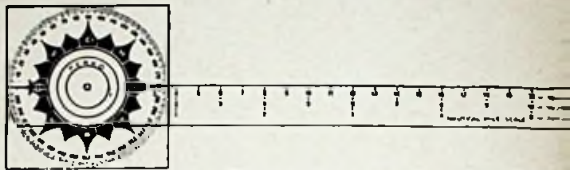


Fig. 706

Arm has various mileage scales used on all coast and harbor charts.

Arm extended on short end to show reverse course.

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

Each	Extreme Length Inches	Diam. Compass Card Inches
\$3.00	21½	6¾

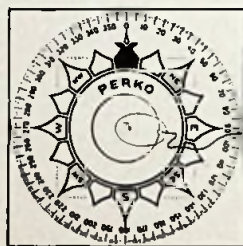


Fig. 697

String Protractor

TRANSPARENT

For use where space is limited.

Size, 4x4 inches.

Each\$.85

Yacht Log Books

100 PAGES—NEAT PRINTING

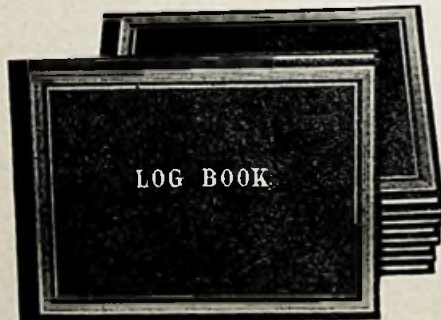


Fig. 708

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



"Champion" Navy Bilge Pumps

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

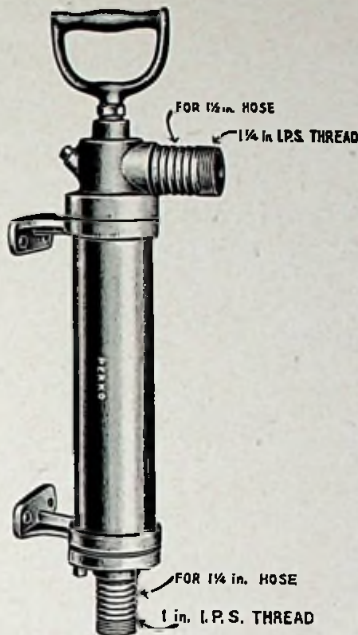


Fig. 701

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	Sizes Hose Inches	Outlet Pipe Inches	Sizes 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



Improved Plunger



Fig. 158
All Bronze Poppet Type Valve

"Midget" Navy Bilge Pumps

FOR HOSE OR PIPE
WITH WEIGHTED LEATHER VALVE

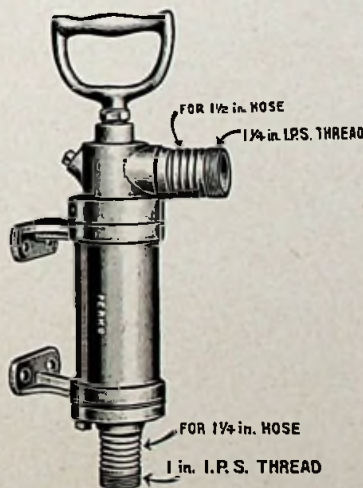


Fig. 702

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

Each	Extreme Length Inches	Diam. Cylinder Inches	Inlet Pipe Inches	Sizes Hose Inches	Outlet Pipe Inches	Sizes 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

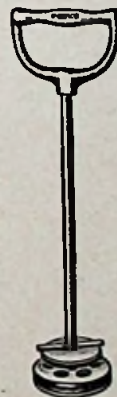


Fig. 108



Brass Bilge Pumps DOUBLE ACTION

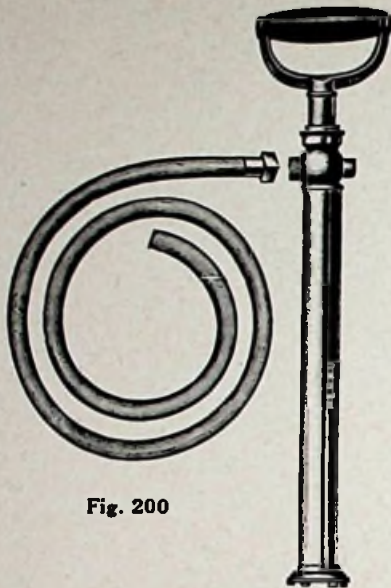


Fig. 200

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	Diam. Inches	Capacity Per Min. Gallons	Weight Pounds
1	\$ 7.75	17 $\frac{3}{8}$	1 $\frac{1}{8}$	6	2 $\frac{1}{4}$
2	9.75	20	1 $\frac{1}{2}$	12	3 $\frac{1}{4}$
4	12.50	29	1 $\frac{1}{2}$	16 $\frac{1}{2}$	4

Without hose, deduct \$.50 each.

Brass Bilge Pumps WITH SUCTION HOSE AND STRAINER

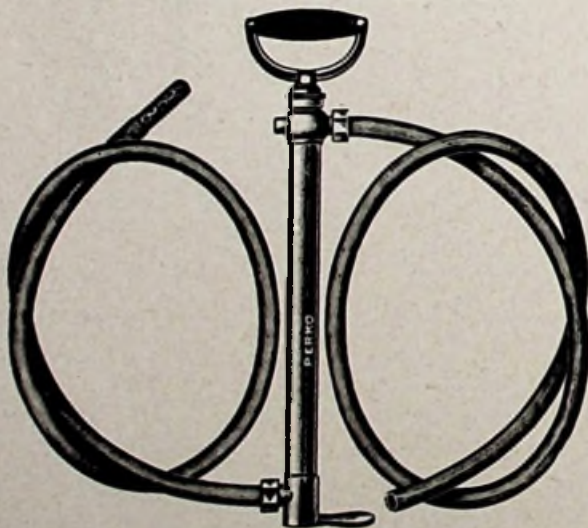


Fig. 202

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

Nos.	With Hose Each	Height Inches	Diameter Inches	Capacity Per Min. Gallons	Weight Pounds
5	\$10.50	18 $\frac{3}{8}$	1 $\frac{1}{8}$	6	3
6	13.25	21	1 $\frac{1}{2}$	12	4
8	17.50	30	1 $\frac{1}{2}$	16 $\frac{1}{2}$	5

Without hose, deduct \$1.00 each.

Brass Bilge Pump

SINGLE ACTION—WITH 5 FT. RUBBER HOSE

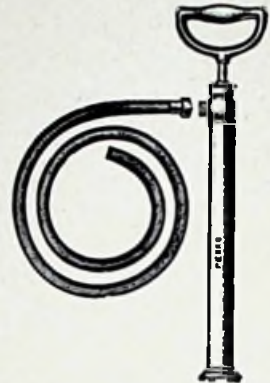


Fig. 723

CAPACITY—15 STROKES 1 GALLON

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

New "Sea-Mite" Bilge Pump

20 GAUGE STEEL—PAINTED FINISH
CAPACITY—7 STROKES PER GALLON



Fig. 142

Outlet spout will accommodate $\frac{3}{4}$ inch garden hose

Each	Diam. Body Inches	Length Overall Inches	Diam. Spout Inches	Length Spout Inches	Weight Pounds
\$3.80	1 $\frac{1}{2}$	24	$\frac{3}{4}$	2	1 $\frac{3}{4}$

Packed—6 pumps per standard package.

Galvanized Steel Bilge Pumps

WITH LEATHER PLUNGER AND VALVE
WOOD ROD AND FUNNEL TOP

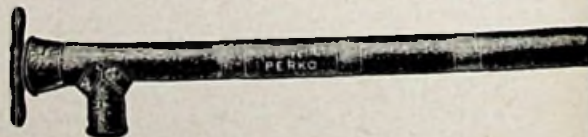


Fig. 156

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.

Spare plungers, Fig. 239—Spare Valves Fig. 237.

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 64
 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	$1\frac{1}{8}$ $1\frac{1}{8}$	\$.10 .15
	Hollow Ball {No. 1 Fig. 206	$\frac{1}{2}$ $\frac{3}{8}$	\$.50 .65
	Valve Fitting For Plunger (No. 1 Fig. 456)		\$.90
	Packing Nut (No. 1 Fig. 457)		\$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. $\frac{5}{8}$ inch inside diameter.

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

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

Fig. 208 Fig. 209

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

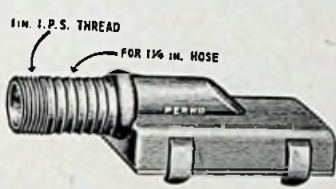


Fig. 704

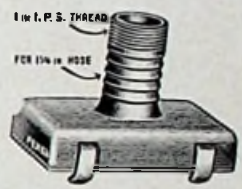


Fig. 705



Fig. 721



Fig. 722

Fig.	Each	Pipe Thread Inches	For Hose Inches	Length Inches	Width Inches	Weight Pounds
704	\$2.25	1	1/4	7	2 3/4	2
705	2.25	1	1/4	4 3/4	2 3/4	1 1/2
721	2.25	1 1/4		5	2 3/4	1 1/2
722	2.25	1 1/4		4 3/4	2 3/4	1 3/8

New Junior Strainer

CAST BRONZE FOR $\frac{5}{8}$ INCH RUBBER HOSE



Fig. 709

Excellent for use with bilge pumps having $\frac{5}{8}$ inch hose for intake such as our Fig. 202, etc.

Each	Length Overall Inches	Width Inches	Weight Ounces
\$1.60	4	1 3/4	6



Brass Bilge Pumps

DOUBLE ACTION—WITH BULKHEAD BRACKETS
THREADED FOR 3/4 INCH PIPE



Fig. 345

No.	Without Tail Pieces Each	With Tail Pieces Each	Diam. Barrel Inches	Length Overall Inches	Weight Pounds
2	\$13.50	\$15.00	1 1/2	21	3
4	15.50	17.00	1 1/2	31	4

Spare Parts, See Page 65

Without tail piece supplied if not specified.

Crank Case Pump

DOUBLE ACTION—ALL BRASS
Capacity per minute—2 Gallons

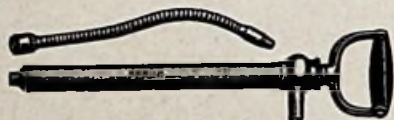


Fig. 146

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

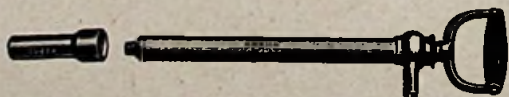


Fig. 1029

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 BRONZE FLEXIBLE METAL HOSE



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

"Perko" Wing Pumps

DOUBLE ACTION—ALL BRONZE
FOR MARINE, INDUSTRIAL AND DOMESTIC USE
IMPROVED VALVES HOLD PRIME

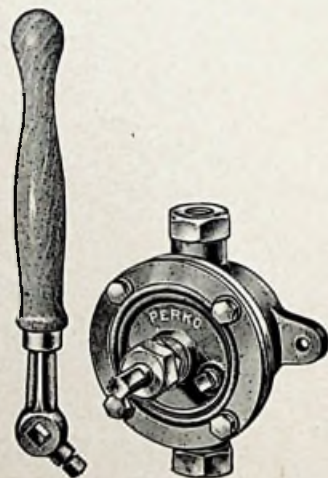


Fig. 681

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 gas line, 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 groove 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 3/4	7	14
2	49.00	1	6 3/8	9 3/4	19 1/2



Perko Improved "Rotoflex" Pumps

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

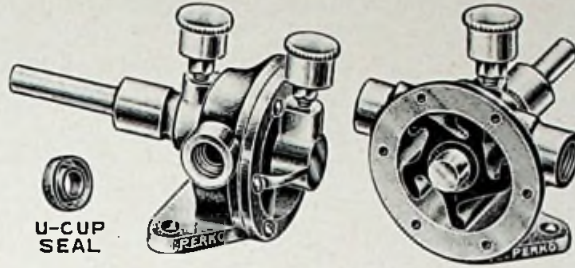


Fig. 696

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	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	\$12.00	\$1.50	3/8	1/2	3 1/2	3 1/2	6 1/4	3 x 1 3/4	4.1	4.9	6.4	2 5/8
3	15.75	2.25	1/2	5/8	3 3/4	4	6 7/8	3 3/8 x 2 1/8	7.1	8.5	11.0	3 3/4
4	18.25	3.50	3/4	3/8	4	4 1/2	8 3/8	4 x 3	13.0	16.5	22.0	5 3/4
5	24.00	3.50	1	3/8	4	5	8 3/8	4 1/8 x 3	15.7	19.2	26.0	6
6	42.50	6.50	1 1/4	3/8	5	7 1/4	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.

"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.

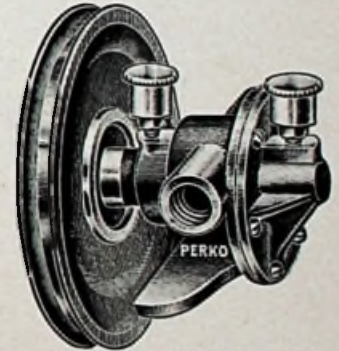


Fig. 703

"Perko" Ford Gear Pumps

ALL BRONZE
FOR MODEL A FORD MOTOR CONVERSIONS

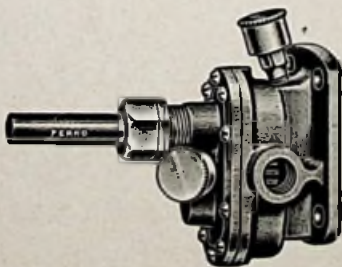


Fig. 530

With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connections Inches	Diam. Shaft Inches	Weight Pounds
\$17.00	\$21.00	3/8	1/2	4 1/2

"Perko" Star Gear Pump

ALL BRONZE
FOR STAR MARINE MOTOR CONVERSIONS

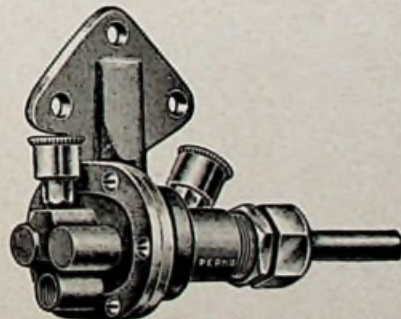


Fig. 804

With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connections Inches	Diameter Drive Shaft Inches	Weight Pounds
\$17.00	\$21.00	3/8	1/2	4



"PERKO" BRONZE GEAR TYPE PUMPS

NON CORROSIVE BRONZE THROUGHOUT WITH TOBIN BRONZE SHAFTS AND GEARS
 SIZES NO. 3 AND 4 HAVE DROP FORGED BRONZE BODIES

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

Single Lower Drive Shaft

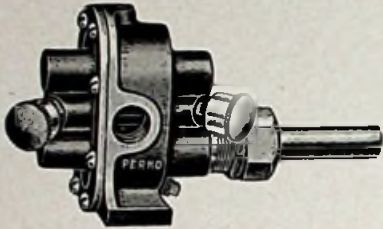


Fig. 684

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight 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

Single Upper Drive Shaft

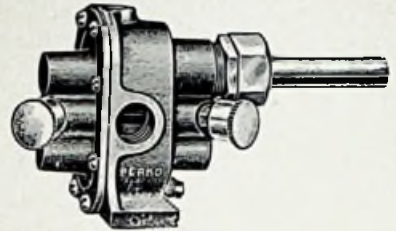


Fig. 682

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight 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

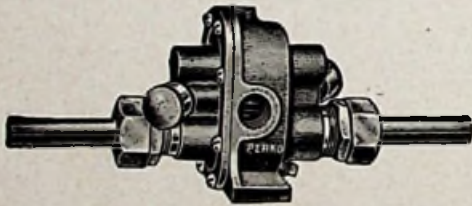


Fig. 685

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight 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

Double Upper Drive Shaft

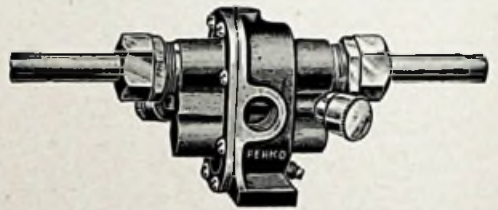


Fig. 683

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight 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

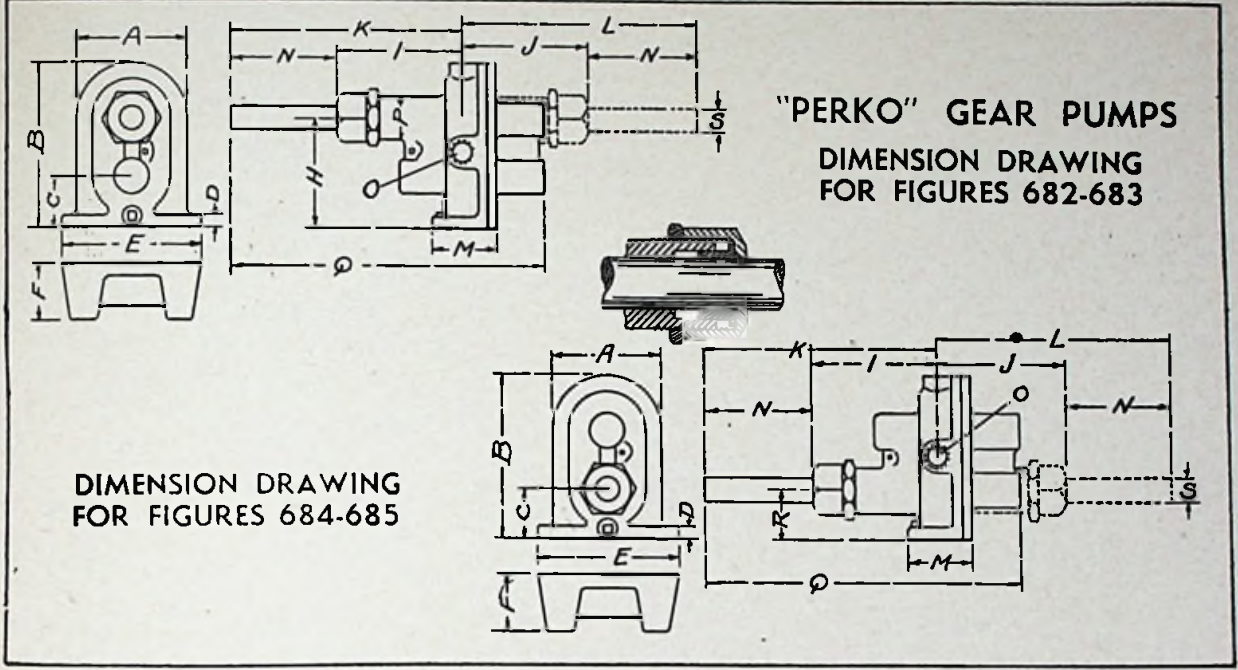
For special lengths of shafts add \$.65 each, and then \$.60 for every six inches or fraction thereof beyond standard length.

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" GEAR PUMPS
DIMENSION DRAWING
FOR FIGURES 682-683

DIMENSION DRAWING
FOR FIGURES 684-685

DIMENSION TABLE FOR "PERKO" GEAR PUMPS

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

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

CAPACITY TABLE FOR "PERKO" GEAR PUMPS

1200 REVOLUTIONS PER MINUTE

Pump No.	P R E S S U R E									
	0 lb.		20 lb.		40 lb.		60 lb.		80 lb.	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
2	3.	$\frac{1}{8}$	2.62	$\frac{1}{8}$	2.25	$\frac{1}{4}$	1.8	$\frac{1}{4}$	1.45	$\frac{1}{2}$
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 $\frac{3}{4}$

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 "Flexo-Shaft" Electric Bilge Pumps

Patent Pending

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

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

Pass the shaft around corners, over or under bulkhead, ribs or any other obstructions and it 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

WITH ANGLE DRIVE

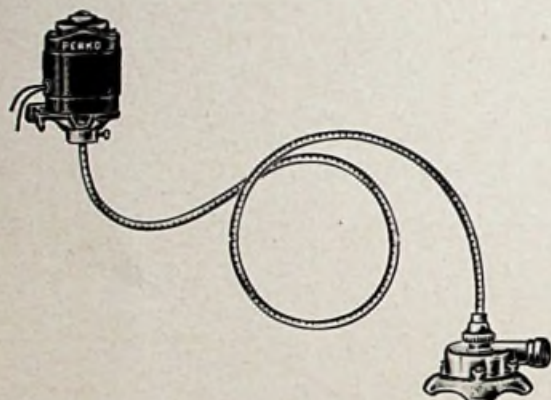


Fig. 666

Height Pump Inches	Diam. Base Inches	Weight Pounds	110 D.C.		110 A.C.	
			Volts Each	Volts Each	Volts Each	Volts Each
4 1/4	4 3/8	7				
			6 Volt Each	12 Volt Each	32 Volt Each	
With 3 ft. shaft			\$30.00	\$33.00	\$36.00	\$38.00
With 6 ft. shaft			32.00	35.00	38.00	40.00
Motors only			10.50	13.50	20.00	22.00

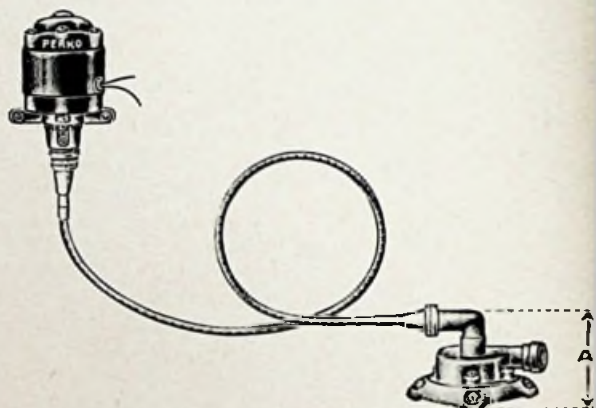


Fig. 689

Height at "A" Inches	Diam. Base Inches	Weight Pounds	110 D.C.		110 A.C.	
			Volts Each	Volts Each	Volts Each	Volts Each
3 1/8	4 3/8	7 1/2				
			6 Volt Each	12 Volt Each	32 Volts Each	
With 3 ft. shaft			\$34.50	\$37.00	\$40.00	\$42.00
With 6 ft. shaft			36.50	39.00	42.00	44.00
Motors only			10.50	13.50	20.00	22.00

SPARE PARTS

3 Foot shafts only	\$5.00 Each	Fig. 689 Mitre Gears only	\$1.00 Per Pa
6 Foot shafts only	7.00 Each	Fig. 689 Angle Elbow Less Gears	3.00 Each
Fig. 666 Complete Pump Unit only	13.00 Each	Motor Bulkhead Bracket only	3.00 Each
Fig. 689 Complete Pump Unit only	17.00 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 1/2 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.

Complete Each	Spare Switch Each	Spare Diaphragm Each	Height Inches	Diam. Base Inches	Weight Pounds
\$9.75	\$2.25	\$.75	2 1/4	4 1/4	2



Fig. 662

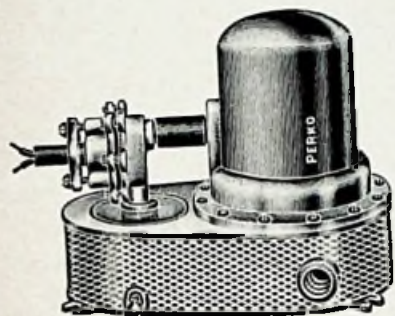


NEW "PERKO" MAGNETIC WATERTIGHT ELECTRIC BILGE PUMPS

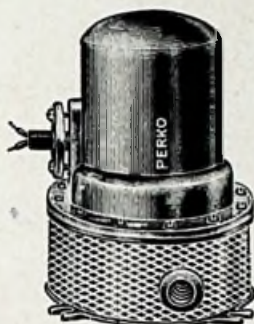
(Patent Applied For)

CAST BRONZE—6-12-32 AND 110 VOLTS

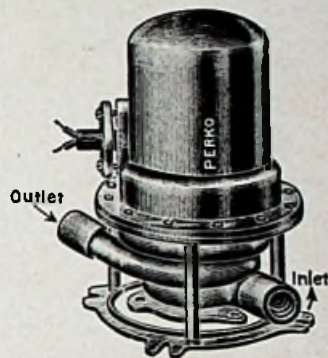
NO SHAFT SEALS NECESSARY—NO PHYSICAL CONNECTION BETWEEN MOTOR AND PUMP IMPELLER—IMPELLER ROTATED BY POWERFUL MAGNETS ATTACHED—EQUALLY POWERFUL MAGNETS ROTATED BY MOTOR HERMETICALLY SEALED IN CAST BRONZE HOUSING—WATER CANNOT ENTER MOTOR HOUSING—SWITCH IS A SENSITIVE PRESSURE OPERATED DIAPHRAGM TYPE—NOISELESS—VIBRATIONLESS—WILL OPERATE ENTIRELY SUBMERGED



Automatic
Fig. 724



Non-Automatic
Fig. 725



Non-Automatic with
Pipe Connection Inlet
Fig. 726

A tried and true principle used in marine electric bilge pumps for the first time, eliminating the causes of difficulties encountered in the use of other types.

These pumps are of a unique design and operating principle. The motor drives a set of powerful magnets which in turn drive a corresponding set of magnets mounted on the pump impeller shaft. Between the driving and driven magnets is interposed a seal plate which enables the motor unit to be hermetically housed in a water and vapor tight compartment. As long as the flange bolts are kept tight and the seal plate is in good condition there is no possibility of water damage to the motor. The magnets in the lower pumping unit are insulated against corrosion.

A water-tight electric bilge pump is a very desirable item in a boat, but it must be dependable. Previous models using seals have given trouble caused by water getting past the seal and into the motor housing. Our new magnetic pump requires no shaft seals as there is no shaft passing through from the motor to the pump impeller.

FIG. 724 AUTOMATIC PUMP—Has a very sensitive pressure operated diaphragm type switch, the diaphragm is of oil and grease resistant material. The switch will start the pump operating when the water reaches a height of about 2 inches. It will turn off again when the water reaches a depth of about 1 inch, but by connecting $\frac{1}{4}$ inch tubing to the $\frac{1}{8}$ 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. The inlet of the pump is protected by 44 square inches of heavy brass strainer. The outlet is for $\frac{1}{2}$ inch pipe or $\frac{3}{4}$ 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 $\frac{1}{2}$ inch pipe.

FIG. 726 NON-AUTOMATIC PUMP—Intake and outlet is through threaded $\frac{1}{2}$ inch pipe connection. A $\frac{1}{2}$ 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.						Height Overall Inches	Size Base Inches	Weight Pounds	Motor Specifications			
	6 Volts Each	12 Volts Each	32 Volts Each	110 Volts D.C. Each	110 Volts A.C. Each				Volts	Amps.	H.P.	R.P.M.
724	\$53.00	\$55.00	\$59.00	\$59.00	\$61.50	7 $\frac{1}{4}$	8 $\frac{1}{2}$ x5	11 $\frac{1}{4}$	6	7.0	$\frac{1}{40}$	2500
725	42.00	44.00	48.00	48.00	50.50	7 $\frac{1}{4}$	5 $\frac{1}{2}$ x5 $\frac{1}{2}$	7 $\frac{1}{2}$	12	3.5	$\frac{1}{40}$	2500
726	43.00	45.00	49.00	49.00	51.50	8 $\frac{3}{4}$	5 $\frac{1}{2}$ x5 $\frac{1}{2}$	7 $\frac{1}{2}$	32	1.5	$\frac{1}{40}$	2500
									110 D.C.	.32	$\frac{1}{60}$	2000

CAPACITY—Forces water up to 8 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.



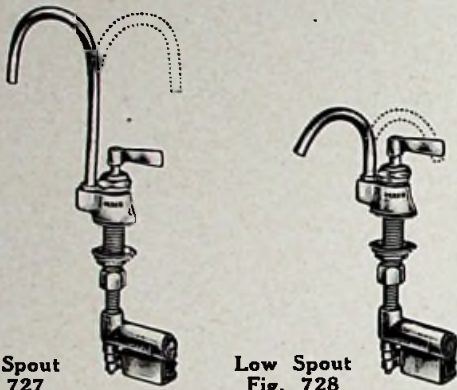
"Perko" Electric Water Faucets

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



FOR FOOT SWITCH

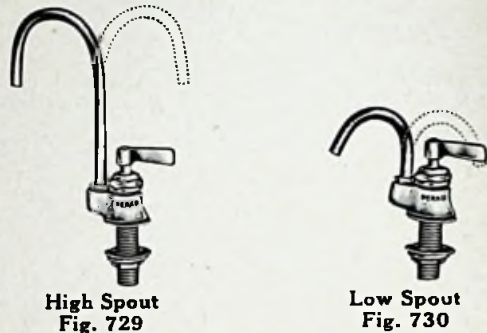


Fig.	Polished Brass Each	Chromium Plated Each	Height Above Drain Board Inches	Length Below Drain Board Inches	Weight Pounds
727	\$24.00	\$27.00	8 1/4	5 1/2	2 1/2
728	23.50	26.50	3 3/8	5 1/2	2 1/4

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. May also be operated by knee or hand.

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



Fig. 731

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

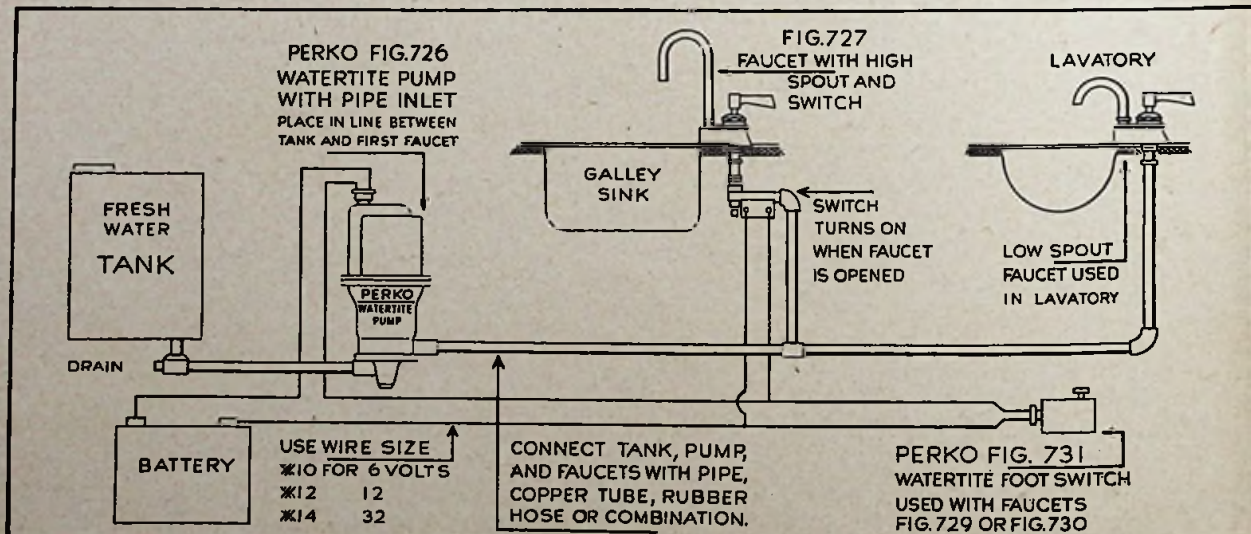
Self Closing Handle Type



Fig. 740

Chromium plated with hand switch. The handle is a spring action self-closing type that cannot waste water. Turn handle to start pump. The pump automatically stops when handle springs closed.

Each	Ht. Above Drain Board Inches	Spout Projects Inches	Weight Pounds
\$16.50	3 3/8	2 3/8	2 1/2



Improved Galley and Lavatory Pumps

IMPROVED INLET VALVE TO HOLD PRIME—WITH LEAKPROOF NEOPRENE U-CUP SEALS
POLISHED BRONZE OR CHROMIUM PLATED

All Metal Handle
High Spout



Fig. 467
Straight Base

Mahogany Handle
High Spout

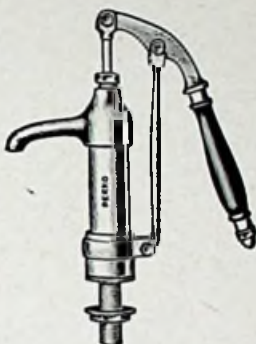


Fig. 473 Straight Base
Fig. 478 Flared Base

Mahogany Handle
Low Spout

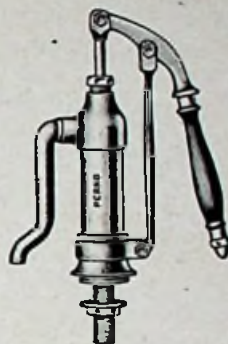


Fig. 474 Flared Base
Fig. 479 Straight Base

These pumps have been greatly improved by the new inlet valves which operate under phosphor bronze spring tension holding the prime a considerable time. Also the use of a neoprene u-cup seal around the plunger rod instead of packing glands that always require attention. The handles cannot pinch the hand.

Fig.	Polished Bronze Each	Chromium Plated Each	Polished Bronze Handle Only Each	Chromium Plated Handle Only Each	Mahogany Grip Only Each	Diam. Barrel Inches	Length Barrel Inches	Length Neck Inches	Threaded For Pipe Inches	Spread Handle Up Inches	Weight Pounds
467	\$17.50	\$21.00	\$2.25	\$3.25		1 5/8	6 1/2	2 1/2	1/2	13 1/2	3 1/2
473-478	19.75	23.00	3.00	4.00	.75	1 5/8	6	2 1/2	1/2	14	3 1/2
474-479	22.00	25.50	3.00	4.00	.75	1 5/8	6	2 1/2	1/2	14	3 1/2

NOTE—Fig. 467 supplied with flared base if desired, at same price.

Spare parts kits for above, consisting of 2 Phosphor Bronze Springs, 1 plunger leather, 1 rubber plunger washer, 1 U-cup seal and a rubber washer for inlet valve piston. Per kit \$2.75

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

Spare parts kit consisting of 1 plunger leather with retaining ring, 1 flanged washer and 1 brass ball check. Per kit \$1.30.

The "Ezy-Flo"

ALL BRASS—CHROMIUM PLATED

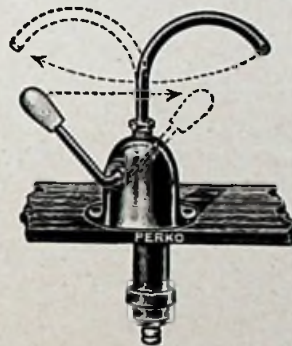


Fig. 177

Finger tip control, easy operation, self priming.

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

Spout swivels to any direction desired.

Inlet fits 3/8" rubber hose or 3/8" pipe.

Capacity—20 strokes per quart.

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 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 $5\frac{1}{4}$ inches.
Inlet is threaded for $\frac{3}{8}$ 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	$1\frac{1}{2}$	$13\frac{1}{2}$	3	0	3
1040	$1\frac{1}{2}$	$14\frac{1}{2}$	$4\frac{1}{2}$	3	$3\frac{1}{2}$

Fig.	Exposed Parts Only		Repair Kits Each
	Polished Bronze Each	Chromium Plated Each	
144	\$12.00	\$14.00	\$1.75
1040	13.00	15.00	1.75

Repair kit consists of two brass balls and one plunger leather with brass retaining ring.

"Lucite" Flat Rim Sinks

HEAT RESISTANT
COLORS, WHITE-BLUE-OR GREEN

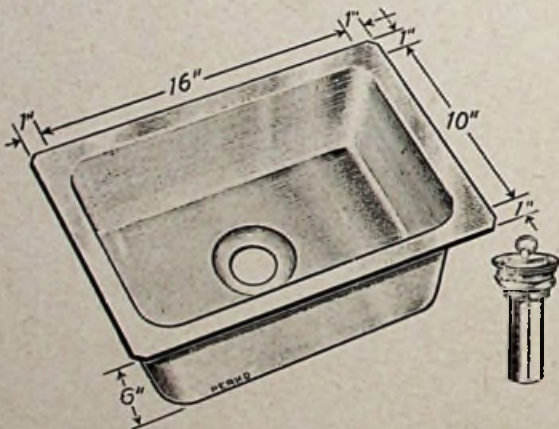


Fig. 383

Designed to harmonize with the color scheme of the modern galley. Unaffected by food, acid, most chemicals, and can withstand hot water. Will not chip. Color is solid.

Drain fitting is chromium plated, with rubber stopper and $1\frac{1}{2}$ inch tail piece.

Sink only, each \$14.75
Drain fitting only, each 2.00

Please specify color otherwise white is shipped.

Pressed Steel Sink WHITE PORCELAIN ENAMELED



Fig. 402

With flat rim and chromium plated combination sink drain and stopper in one unit, $1\frac{1}{2}$ inch tail piece.

No.	Complete Each	Size Inside Inches	Size Outside Inches	Depth Inches	Wt. Lbs
2	\$8.00	$10\frac{1}{2} \times 16$	$12\frac{3}{4} \times 18$	$4\frac{3}{4}$	4

Spare Drain Fittings only, each \$2.00

Stainless Steel Sinks

DEEP DRAWN, SEAMLESS CONSTRUCTION
19 GAUGE 18-8—NATURAL FINISH

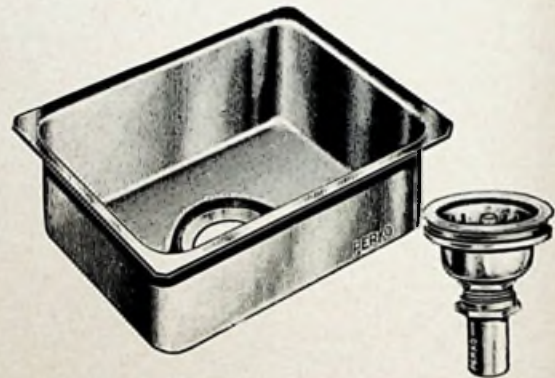


Fig. 356

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, with $1\frac{1}{2}$ inch tail piece.

No.	Sink Only Each	Strainer Only Each	Size Inside Inches	Size Outside Inches	Depth Inside Inches	Wt. Lbs
1	\$17.50	\$5.00	10×13	$11\frac{3}{4} \times 14\frac{3}{4}$	5	$3\frac{1}{2}$
2	18.00	5.00	$11\frac{1}{2} \times 16\frac{3}{4}$	$13\frac{1}{4} \times 18\frac{1}{2}$	6	$6\frac{1}{2}$

Bronze Utility Check Valve 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	$\frac{1}{2}$	$1\frac{7}{8}$	$3\frac{1}{2}$



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

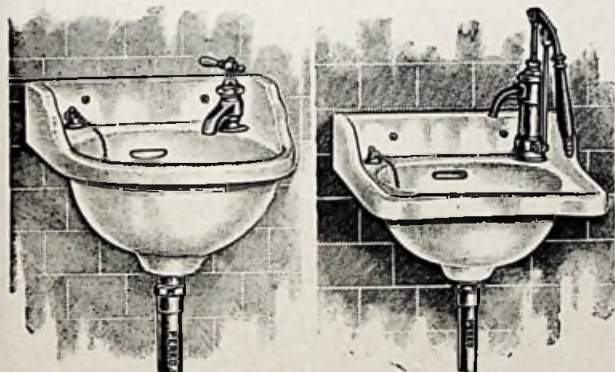


Fig. 831

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.

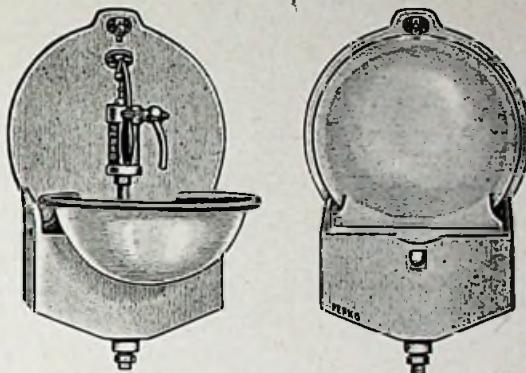
Fig.	Without Pump or Faucet Each	With Faucet Each	Size Inches	Diam. Basin Inches	Height Back Inches
831	\$21.00	\$27.00	12x12	10	2½
832	24.00	30.00	14x14	11	2½

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 $\frac{1}{4}$ 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” IMPROVED MARINE CLOSETS

FOR ABOVE OR BELOW WATERLINE

WHITE VITREOUS CHINA BOWLS—ALL BRONZE PUMPS AND FITTINGS, WHITE FINISH
ALL WHITE SEATS AND COVERS WITH BRASS CHROMIUM PLATED HINGES
WITH NEOPRENE “JOKER” BACKWATER CHECK VALVE

All of our closets have been redesigned and greatly improved over previous models, all faults have been removed and these new designs have been carefully tested, to our satisfaction that they are second to no hand operated closet in our field. Pumping capacity is greater with less effort. Disassembly of pump for replacement of parts is simplified by the removal of four bolts in the upper flange allowing full access to the entire pump interior.

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 double action cup leather piston. Length of stroke is 3½ inches. Has Neoprene Vent Valve in upper flange.

VALVES, waste valve contains Neoprene Clack Washers. The combination supply and check valve has bronze shut off ball. A Neoprene “Joker” Backwater Check Valve is in the discharge tail piece.

WASTE ARM has ¼ 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.

DIMENSIONS OVERALL, side to side, 17 inches; front to back, 16 inches; height, 14½ inches, base 10 x 5 inches.

The Boatman

With Horizontal Handle and Hand Valve

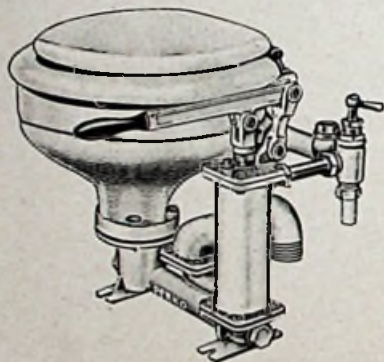


Fig. 828-A complete Each \$70.00
Repair Kit Each 6.00

The Cruiserman

With Horizontal Handle and Foot Valve

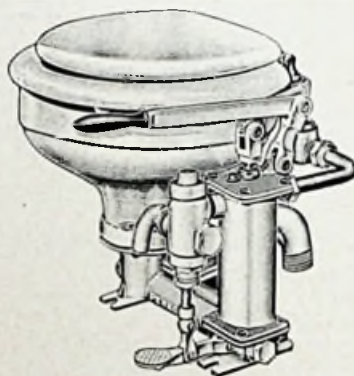


Fig. 1121-A complete Each \$72.50
Repair Kit Each 6.75

The Seaman

With Vertical Handle and Hand Valve

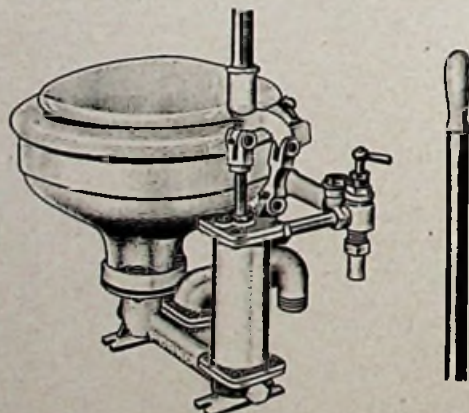


Fig. 1026-A complete Each \$72.50
Repair Kit Each 6.00

The Yachtsman

With Vertical Handle and Foot Valve

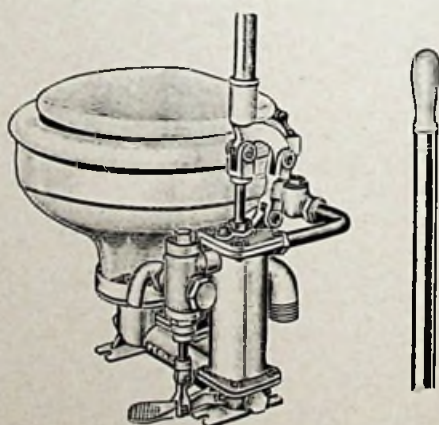


Fig. 829-A complete Each \$75.00
Repair Kit Each 6.75

NOTE—All furnished with pump on right or left side. Right hand facing supplied unless otherwise specified. Repair kit for Fig.'s 828-A and 1026-A consists of parts No. 7, 10, 11, 17, 18, 21, 25, 28, 30, 31, 34, 35, 40, 43, 45, 47.

Repair kit for Fig.'s 829-A and 1121-A consists of parts No. 7, 10, 11, 17, 18, 21, 25, 28, 30, 31, 61, 65, 66, 72, 75, 77, 80, 82, 84, 87.



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.

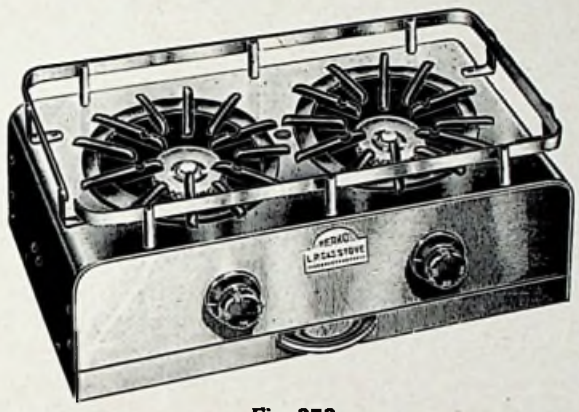


Fig. 373

Complete 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

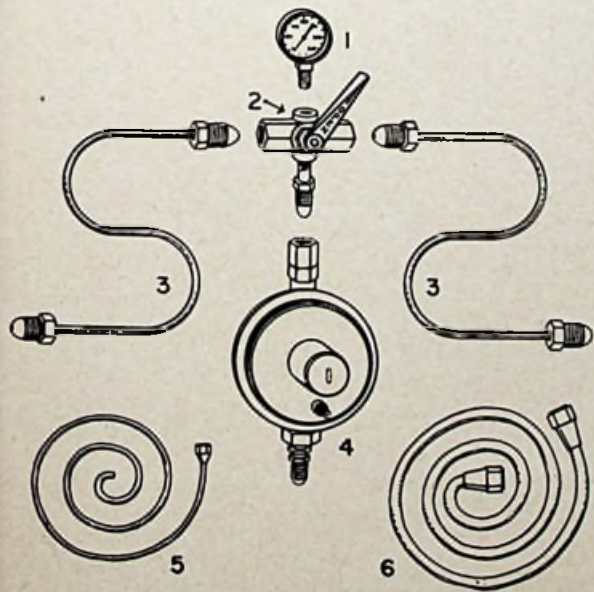


Fig. 374

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 and Mounting Brackets	12.50
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
	Plugs for Manifold	1.15

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

“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. Tray cannot slide out when boat is heeled.

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.

PRESSURE PUMP — All brass, knob locks into pump, cannot back out under back pressure.

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

FUEL TANK — 1 1/8 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.

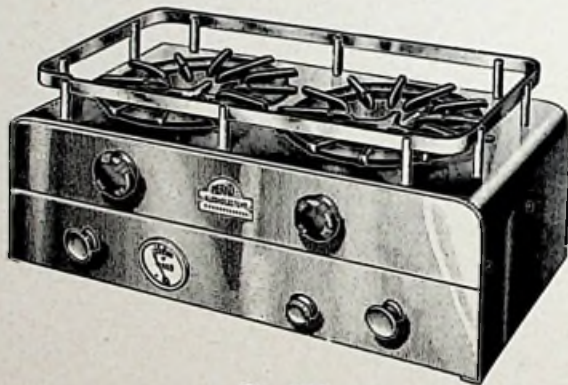


Fig. 364

Complete Each	Extreme Length Inches	Extreme Width Inches	Extreme Height Inches	Weight Pounds
\$67.00	20 1/2	12	8 1/2	27

ABOVE PRICE INCLUDES A FIG. 365 FUNNEL FOR FILLING.

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	3/8	2

Pot Holders

ALL BRASS—CHROMIUM PLATED

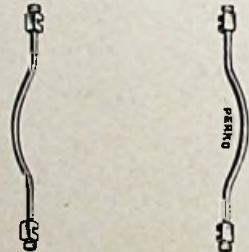


Fig. 369

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	10 1/2	8

"Perko" Alcohol Burner

CAST BRONZE



Fig. 367

Burner with Needle Valve and Control Handle, no Fittings, Filter or Priming Pan	\$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

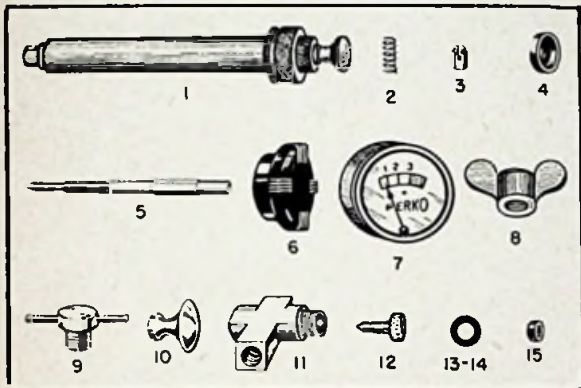


Fig. 368

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	\$21.00	1.5	8 1/2	7	9 1/2
12	24.00	.75	8 1/2	7 1/4	9 3/4
32	27.00	.28	8 1/2	7 3/4	10 1/4
110 D.C.	32.00	.08	8 1/2	8	11

The 110 volt heater furnished for D.C. current only. Specify Voltage When Ordering

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



Marine Exhaust Blowers

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 Intake	Size Outlet	Dimensions Overall		Capacity Cubic Feet Per Minute	Size Flange	
	Inches	Inches	Inches	Inches		Inches	Inches
1	3	2½	7½	6x6	90	3½	3½
2	4	4	8½	8x8	186	4½	4½

Volts	No. 1 Each		No. 2 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 Exhaust Blowers For Bilge Installation

FULLY ENCLOSED SPARKPROOF MOTOR
CAST ALUMINUM HOUSING—ALL VOLTAGES



Fig. 791

A new blower that may be installed in the bilge without fear of sparks igniting gasoline fumes.

Motor enclosed in brass housing. Shaft passes through a Neoprene seal and electric cable enters housing through a watertight packing gland.

No.	Size Intake	Size Outlet	Dimensions Overall		Capacity Cubic Feet Per Minute	Size Flange	
	Inches	Inches	Inches	Inches		Inches	Inches
1	3	2½	7½	6x6	90	3½	3½
2	4	4	8½	8x8	186	4½	4½

Volts	No. 1 Each		No. 2 Each		Amperes		Horsepower	
			No. 1	No. 2	No. 1	No. 2	No. 1	No. 2
6	\$21.00	\$35.00	5.5	7.0	1/75	1/40		
12	22.00	36.00	2.7	4.0	1/75	1/40		
32	24.00	38.00	1.0	1.3	1/75	1/40		
110 D.C.	30.00	40.00	.30	.32	1/40	1/60		
110 A.C.		42.00		.32		1/60		

A caution plate is furnished with every Blower.

New Improved Exhaust Blowers

CAST ALUMINUM HOUSING
6-12-32 OR 110 VOLTS

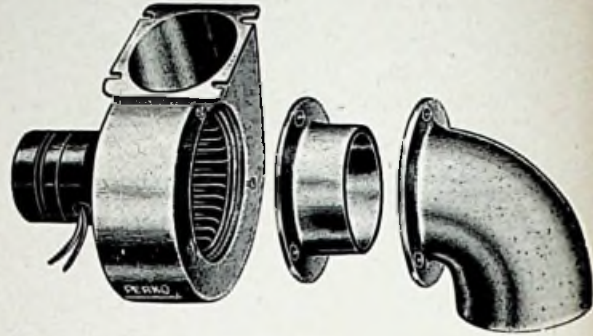


Fig. 795

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 1½ 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

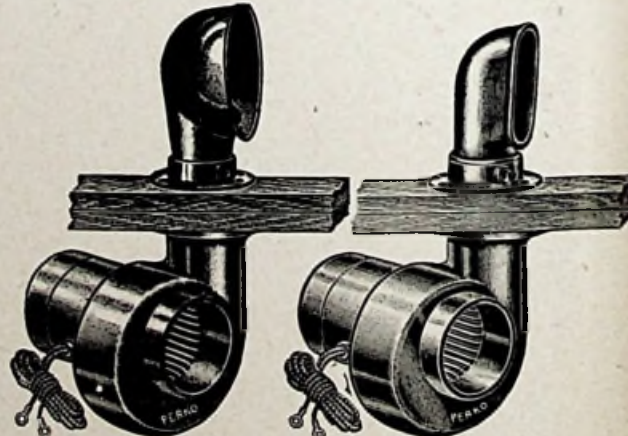


Fig. 780

Fig. 781

Fig. 780 has galv. or brass ventilator 3 inch size Fig. 513.

Fig. 781 has bronze ventilator Fig. 634 size No. 1.

Fig. 780	6 Volt Fig. 780	Fig. 781
Galvanized Complete Each	Pol. Brass Complete Each	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.

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
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. Chromium plated brass vents supplied to order, add 25% to above polished brass prices. Inside of mouth is plated but not polished.

Polished copper vents supplied to order, price on application.

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

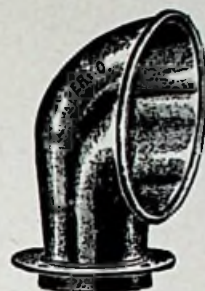


Fig. 421

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

With reinforcing band around bottom of neck supplied to order, price on application.

Galvanized vents are painted green.

VENTILATOR NOTES

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

When ordering cowl 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

SWIVEL TYPE



Fig. 509



Fig. 515

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

Space Saver Ventilators

CAST BRONZE—IMPROVED

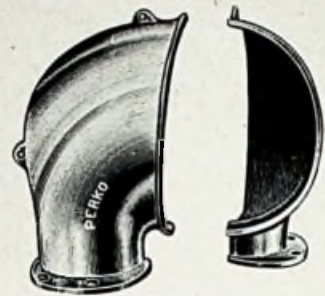


Fig. 782

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.

Deck Plate Size Inches	Size Mouth Inches	Height Above Deck Inches		Weight Pounds
		Fig. 509	Fig. 515	
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 5/8	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

No.	Inside Diameter at Base Inches	Inside Measurements at Mouth Inches	Extreme Height Inches	Weight Per Pair Pounds	
				Plain Bronze Per Pair	Polished Bronze Per Pair
1	2 1/2	2 3/8 x 5	6 3/4	\$ 9.00	\$12.50
2	3 1/2	3 1/8 x 7 1/2	9	13.00	16.50

No.	Weight Per Pair Pounds	
	Chrome Plated Per Pair	Polished Bronze Per Pair
1	\$16.00	\$12.50
2	19.50	16.50

NOTE—When ordering a half pair, please mention whether for port or starboard side facing forward or aft.

Midget Ventilators

CAST BRONZE—OVAL MOUTH
BRONZE SWIVEL DECK PLATE AND COVER



Fig. 634

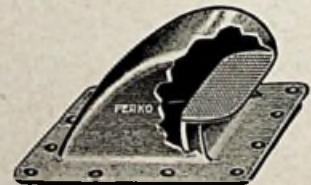
No.	Polished Bronze Each	Chromium Plated Each	Diam. Bottom Opening Inches	Extreme Height Inches	Size of Mouth Inches
2	11.50	16.50	2	8	2 1/4 x 4 1/2

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.

Transom Ventilators

CAST BRONZE



Fig. 1069

Plain Bronze Each	Pol. Bronze Each	Chrom. Plated Each	Size Flange Inches	Depth Collar Inches	Weight Pounds
\$1.25	\$2.25	\$3.00	6 3/4 x 2 1/4	3/4	3/4

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

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



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
No.	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Weight
4	\$1.60	\$1.90	\$2.65	
5	1.90	2.25	3.00	

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

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 5/8	3 5/8 x 4 3/4	12
No.	Polished Bronze Each	Chromium Plated Each	Weight	
2	\$1.90	\$2.65		
3	2.25	3.00		

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	\$ 5.30	\$ 7.30	3 3/8	12 oz.
2 1/2	6.00	8.25	4 1/2	1 lb.
3	7.20	9.50	4 7/8	1 1/4 lbs.
3 1/2	8.80	11.30	5 1/2	1 3/4 lbs.
4	10.50	13.00	5 3/4	2 1/4 lbs.
5	15.50	18.20	7 1/4	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.

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
\$4.50	\$6.00	3x1	7 1/2 x 4	1 1/2

Swivel Deck Plates

CAST BRONZE—FOR COWL VENTILATORS



Fig. 419

Permits cowl to be turned to any direction.

For Ventilator	Size Opening in Base Inches	Machined Finish Each	For Ventilator	Size Opening in Base Inches	Machined Finish 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.

Round Portlights

CAST BRONZE

NEW STYLE—IMPROVED

GLASS AREA IS SAME DIAMETER AS OPENING



Fig. 317

Diam. Opening Inches	Plain Bronze Each	Diam. Glass in Clear Inches	Outside Diam. Frame Inches	Thickness of Glass Inches	Weight Pounds
4	\$ 7.15	4	7 ³ / ₈	1/4	3 ¹ / ₂
5	8.50	5	8 ³ / ₄	1/4	4 ³ / ₄
6	10.50	6	9 ³ / ₄	1/4	6 ¹ / ₂
7	14.50	7	11	3/8	8
8	16.50	8	12 ¹ / ₄	3/8	10 ¹ / ₄
9	27.00	9	14 ³ / ₈	1/2	14
10	32.00	10	14 ⁷ / ₈	1/2	18 ³ / ₄
12	50.00	12	17 ¹ / ₈	1/2	24

All sizes are recessed for screens.

9 and 10 inch have Two Fastenings.

12 inch have Three Fastenings.

Deck Lights

CAST BRONZE—FOR WOOD DECKS



Fig. 838

Diameter Clear Glass Inches	Plain Bronze Each	Polished Bronze Each	Thickness Glass Inches	Outside Diam. Frame Inches	Weight Pounds
3 ³ / ₈	\$5.25	\$6.75	1/4	5 ¹ / ₄	1 ³ / ₄
4	5.50	7.50	1/4	6 ¹ / ₄	2
5	6.25	8.60	3/8	7 ¹ / ₂	3 ³ / ₈
6	7.00	9.35	3/8	8	3 ³ / ₈
8	12.85	16.00	1/2	11	9 ⁵ / ₈

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				Weight With 1 ¹ / ₂ Inch Spigot In Pounds
	1 ¹ / ₂ Inch Plain Bronze Each	3 Inch Plain Bronze Each	4 ¹ / ₂ Inch Plain Bronze Each	6 Inch Plain Bronze Each	
4	\$ 9.40	\$10.65	\$11.85	\$13.10	5
5	11.00	12.25	13.45	14.70	6 ³ / ₄
6	13.10	14.30	15.90	17.75	8 ¹ / ₂
7	18.80	20.80	22.90	24.90	12
8	21.25	23.50	26.20	29.50	14
9	28.65	31.00	34.80	38.50	20 ¹ / ₂
10	38.50	42.00	47.50	53.00	25 ¹ / ₂
12	47.50	53.00	59.75	67.50	37

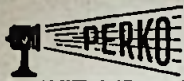
For 1 inch wood, use 1¹/₂ inch price. For 2 or 2¹/₂ inch wood use 3 inch price, etc.

Diameter frame up to 8 inch, add 3 inches. 9 to 12 inch, add 4 inches.

Without outside finishing ring, deduct from above prices the following:

	4 Inch	5 Inch	6 Inch	7 Inch	8 Inch	9 Inch	10 Inch	12 Inch
Plain	\$.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

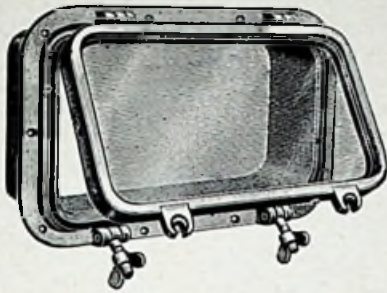


Fig. 796

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	\$21.50	\$19.00	\$1.50	5x12
2	7x16	26.00	23.00	2.00	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

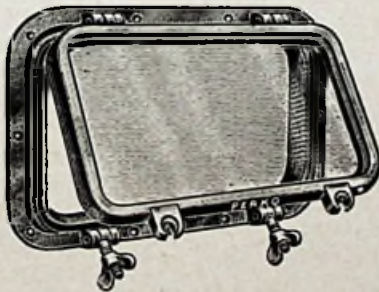


Fig. 803

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	\$20.00	\$17.50	11 1/2	5
4	7x16	24.50	21.50	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.

**Portlight Chains
POLISHED BRONZE**



Fig. 441

Each	Length Inches	Size Plate Inches	Weight Ounces
\$1.00	8	1 1/4 x 1	3

Rubber for Portlights



Fig. 461

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

Supplied only in 12 1/2 foot lengths

NEW IMPROVED "PERKO" DASHBOARD STEERERS WITH CREAM COLORED WHEEL

15 INCH WHEEL—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.

THE SHAFTS — Are all keyed at both ends, into the wheel and the drum. No pins used.

THE ALUMINUM HOUSING — Is mortised into hub of wheel for more rigid construction and better appearance.

Adjustable Bracket Type WITH UNDER-DECK SUPPORTS WITH BRASS SHAFT

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

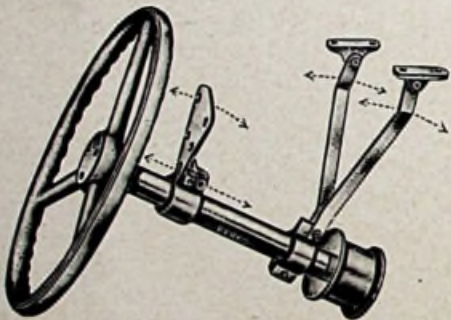


Fig. 535

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

WITH THROTTLE CONTROL

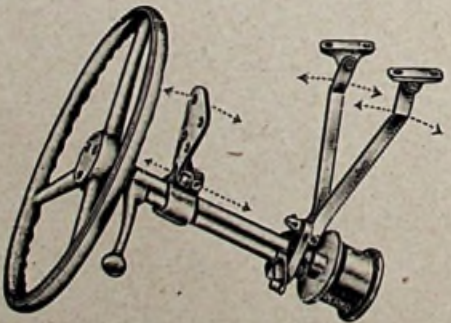


Fig. 536

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

Non-Adjustable Type WITH FIXED DASH BRACKET 22 DEGREES

SHAFT EITHER
CADMIUM PLATED STEEL OR BRASS

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

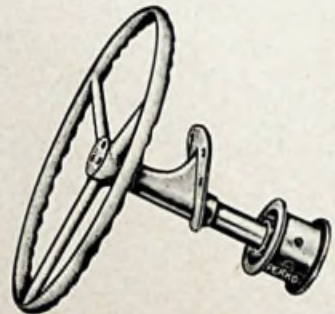


Fig. 537

With Steel Shaft Each	With Brass Shaft Each	Length Overall Inches	Diam. Drum Inches	Length Dash to Wheel Inches	Weight Pounds
\$12.50	\$14.50	13	3	6	5

WITH THROTTLE CONTROL

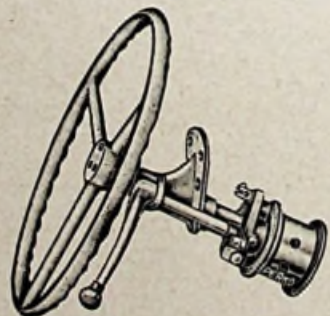


Fig. 538

With Steel Shaft Each	With Brass Shaft Each	Length Overall Inches	Diam. Drum Inches	Length Dash to Wheel Inches	Length Control Handle Inches	Weight Pounds
\$19.00	\$21.50	13	3	6	6	6

Racing Outboard Steerer

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
\$12.50	15	6 1/4	6	3	6 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 5/8	3 3/8
20	17.75	26.50	5 1/8 x 5 1/8	3 7/8	4 3/8
25	30.00		5 3/4 x 5 3/4	4	6

SPARE PARTS

	12 inch		16 inch		20 inch	
	Galv. Each	Bronze Each	Galv. Each	Bronze Each	Galv. Each	Bronze Each
Posts with Back Plates	\$1.55	\$2.25	\$2.60	\$4.50	\$4.50	\$7.10
Drums	.70	.70	1.30	1.30	3.25	3.25
Acorn Nuts	.25	.80	.45	1.00	.70	1.60

Handles and Bolts FOR STEERING WHEELS



Fig. 553

Handles Length Inches	Only Each
3	\$.25
3 1/2	.30
4	.40



Fig. 554

Galvanized Bolts Only		Bronze Bolts Only	
Size Inches	Each	Size Inches	Each
3/8 x 3 1/2	\$.25	3/8 x 3 1/4	\$.35
1/2 x 4 1/4	.35	1/2 x 4	.45
		1/2 x 4 1/2	.55

Worm Geared Steerers

ALL BRONZE THROUGHOUT—PLAIN FINISH
OR CAST IRON WITH STEEL GEARS
AND SHAFT—PAINTED FINISH
MODEL A-1—FOR WHEEL BOX MOUNTING

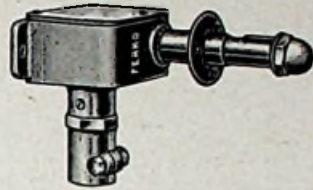


Fig. 512

Steering ratio, 10 1/2 to 1. 1 1/4 turns equals 45 degree rudder angle.

For rudder of 4 square foot area.
For 1 inch vertical shaft.

All Bronze Each	Iron and Steel Each	Diam. Wheel Shaft Inches	*Length Wheel Shaft Inches	Length For Hub Inches	Size Box Overall Inches
\$45.00	\$37.00	1	4	2 1/8	7 x 2 1/2

Weight, all Bronze—13 3/4 pounds.

MODEL E—All bronze only, with reversed shaft for thru - bulkhead mounting at above all bronze price, please specify.

*Length between box and wheel.

WITH WHEEL AND FITTINGS
ALL BRONZE OR IRON AND STEEL
WITHOUT VERTICAL SHAFT

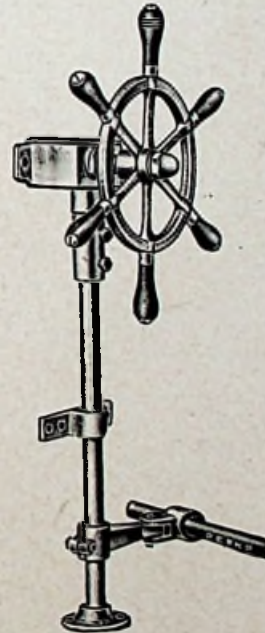


Fig. 820

ALL BRONZE WITH BRONZE FITTINGS

Complete with 16 inch bronze wheel, each.....	\$83.50
Complete with 20 inch bronze wheel, each	86.50
Complete with 24 inch bronze wheel, each.....	97.50

IRON AND STEEL WITH BRONZE FITTINGS

Complete with 16 inch bronze wheel, each.....	\$75.50
Complete with 20 inch bronze wheel, each	78.50
Complete with 24 inch bronze wheel, each.....	89.50
Spare parts, see Fig. 976 sizes 4, 5 and 6.	
Fig. 865 Nos. 1, 5, 6 and 8.	



Chain Type Steerers

ALL BRONZE—WITH ROLLER CHAIN
FOR WHEEL BOX MOUNTING

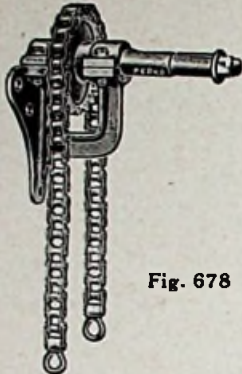


Fig. 678

Sprocket, 4 1/8 inch diameter, 21 teeth.
Chain, 36 inches long, 5/8 inch pitch.
Shaft machined for hub 2 1/4 inches thick.

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

*Length between bracket and wheel.

Chain only, without Shackles, per foot	\$3.50
Chain Shackles, each	.75
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 at above prices, please specify.

Chain Type Steerers

WITH CAST BRONZE WHEEL
POLISHED OR CHROMIUM PLATED

These are our Fig. 678 steerer with Fig. 976 size No. 1, 2 or 3 wheel.

FOR WHEEL BOX MOUNTING



Fig. 674

Outside Diameter Wheel Inches	Polished Bronze Each	Chromium Plated Each	Machined Wheel End of Shaft Inches	Diam. Shaft Inches
16	\$47.00	\$54.00	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.

FOR THRU-BULKHEAD MOUNTING

Chain Type Steerers

WITH INLAID MAHOGANY WHEEL

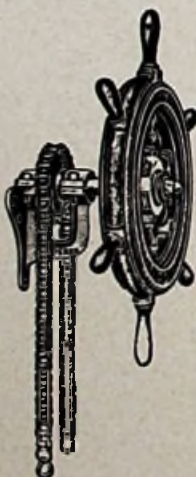


Fig. 676

Diameter Wheel Inches	Each	Wheel End of Shaft Inches
20	\$75.00	7/8
24	83.00	1
28	95.00	1

Supplied for wheel box or thru-bulkhead mounting at same price, please specify.



Fig. 675

Outside Diameter Wheel Inches	Polished Bronze Each	Chromium Plated Each	Machined Wheel End of Shaft Inches	Diam. Shaft Inches
16	\$47.00	\$54.00	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.

NOTE—Both of the above steerers can be supplied with Fig. 914 wheel on Page 91. For price, add the difference between Fig's. 976 and 914, sizes No. 1, 2 or 3.

Ribbed Steering Wheels

GALVANIZED IRON OR CAST BRONZE
WITH WOOD GRIPS— $\frac{1}{4}$ INCH KEYWAY

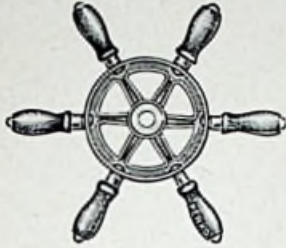


Fig. 988

These wheels have keywayed shallow hubs but are strong and useful where low cost is important.

No.	Overall Diam. Inches	Galv. Each	Polished Bronze Each	For Shaft Inches	Depth Bore Inches	Weight Bronze Pounds
1	12	\$6.00	\$8.00	$\frac{3}{4}$	$\frac{7}{8}$	2
2	16	7.50	9.75	$\frac{3}{4}$	$\frac{1}{4}$	3 $\frac{1}{2}$
3	20	9.75	13.00	$\frac{7}{8}$	$\frac{3}{8}$	6 $\frac{1}{2}$

Steering Wheels

CAST BRONZE—WOOD GRIPS
 $\frac{1}{4}$ INCH KEYWAY

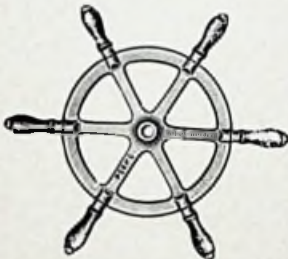


Fig. 976

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	Weight Pounds
1	16	\$14.00	\$18.00	$\frac{7}{8}$	1	4
2	20	16.50	22.00	$\frac{7}{8}$	1	6 $\frac{3}{4}$
3	24	27.50	33.00	1	1 $\frac{1}{4}$	10 $\frac{3}{4}$

With Long Hub for steerers Figs. 512 and 678

No.	Overall Diam. Inches	Polished Bronze Each	Chromium Plated Each	For Shaft Inches	Length Hub Inches	Wt. Lbs.
4	16	\$17.00	\$21.00	$\frac{3}{4}$, $\frac{7}{8}$ or 1	2 $\frac{1}{8}$	4 $\frac{1}{4}$
5	20	22.00	27.50	$\frac{3}{4}$, $\frac{7}{8}$ or 1	2 $\frac{1}{8}$	7 $\frac{3}{4}$
6	24	33.00	38.50	1	2 $\frac{1}{8}$	11

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
 $\frac{1}{4}$ INCH KEYWAY



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	Weight Pounds
1	16	\$20.00	\$24.00	$\frac{7}{8}$	1	4 $\frac{1}{4}$
2	20	23.00	28.50	$\frac{7}{8}$	1	5 $\frac{1}{4}$
3	24	28.50	34.00	1	1 $\frac{1}{4}$	6 $\frac{3}{4}$

With Long Hub for steerers Figs. 512 and 678

No.	Overall Diam. Inches	Polished Brass Each	Chromium Plated Each	For Shaft Inches	Length Hub Inches	Wt. Lbs.
4	16	\$23.00	\$27.00	$\frac{3}{4}$, $\frac{7}{8}$ or 1	2 $\frac{1}{8}$	4 $\frac{3}{4}$
5	20	26.50	32.00	$\frac{3}{4}$, $\frac{7}{8}$ or 1	2 $\frac{1}{8}$	6 $\frac{1}{4}$
6	24	32.00	37.50	1	2 $\frac{1}{8}$	7

Mahogany Steering Wheels

INLAID RIM—CAST BRONZE HUB

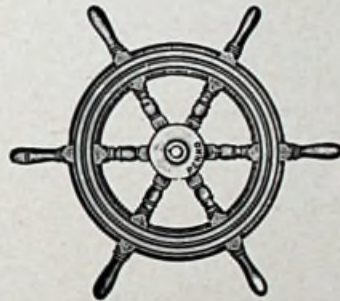


Fig. 657

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

Bronze Rudder Collars



Fig. 815

For Stock Inches	Each	Outside Diameter Inches	Thickness Inches	Weight Ounces
$\frac{3}{4}$	\$1.75	1 $\frac{1}{8}$	1 $\frac{1}{8}$	2 $\frac{1}{4}$
1	2.00	1 $\frac{3}{4}$	1 $\frac{1}{8}$	7
1 $\frac{1}{8}$	2.00	1 $\frac{3}{4}$	1 $\frac{1}{8}$	6 $\frac{1}{2}$
1 $\frac{1}{4}$	2.65	2 $\frac{1}{8}$	1 $\frac{1}{8}$	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

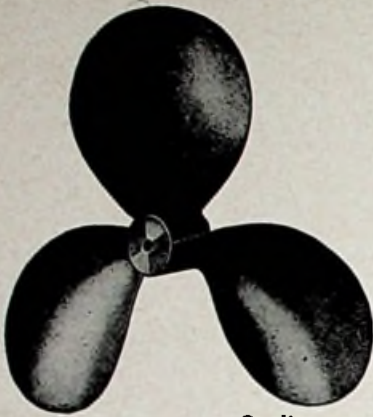


Fig. 809—1st Quality
Fig. 739—Peerless Quality

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

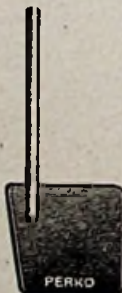


Fig. 824

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 Bottom Inches 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	3/16	1

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

Speed Boat Rudders

CAST MANGANESE BRONZE

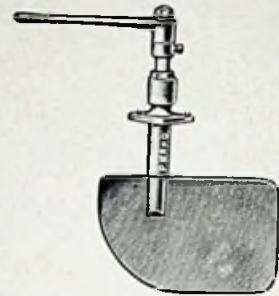


Fig. 813

Furnished complete with tiller, collar, nut and rudd 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

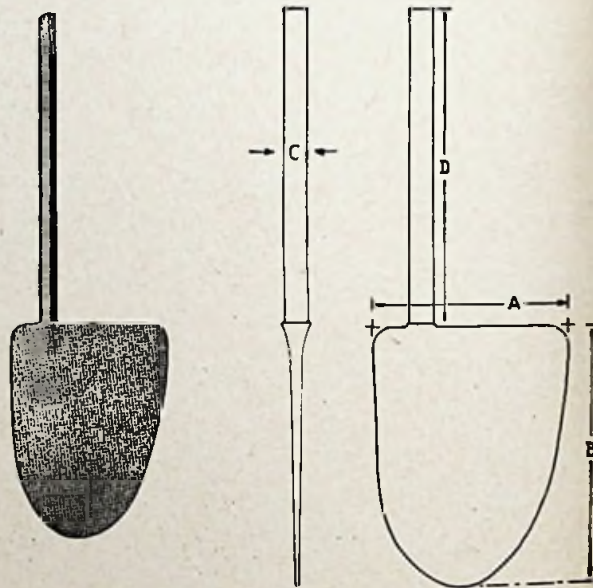
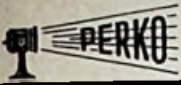


Fig. 818

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	1	12	.22
13x13	20.00	1/4	1	12	.22
14x14	24.20	1/4	1	12	.22
15x15	27.50	1/4	1	12	.22
16x16	30.80	1/4	1	12	.22
18x16	32.20	1/4	1	12	.22
18x18	35.20	1/4	1	12	.22
20x18	39.90	1/4	1 1/4	18	.39
20x20	46.00	1/4	1 1/4	18	.39
22x18	47.85	1/4	1 1/4	18	.39
22x20	60.00	3/8	1 1/4	18	.39
22x22	61.60	3/8	1 1/4	18	.39
24x20	61.60	3/8	1 1/4	18	.39
24x22	63.00	3/8	1 1/4	18	.39
24x24	64.65	3/8	1 1/4	18	.39

Quadrant Tillers

GALVANIZED MALLEABLE IRON



Fig. 651

Radius Inches	Galv. Each	Max. Diam. Rope Inches	Square Hole Adjustable Inches	Weight Pounds
7	\$ 4.80	3/8	1/8 to 3/4	3
10	10.00	3/8	1/8 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
18	30.00	5/8	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.

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	\$ 5.25	6x 8x 1/8	5/8	25	3/4	3
0	9.50	12x12x 1/8	3/8	40	3/4	11
1	11.50	14x14x 1/8	3/8	42	3/4	13
2	17.00	16x16x 3/16	3/4	48	1	25
3	21.00	18x18x 3/16	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	Weight Pounds
0	\$3.50	\$ 7.50	24x1 1/2x 3/8	3/4	4 1/2
1	5.25	12.00	30x1 3/4x 1/2	3/4	9
2	9.50	23.00	42x2 x 3/8	1	17

Straight Tillers

GALVANIZED MALLEABLE IRON OR BRONZE

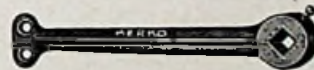


Fig. 650

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	3/4 x 3/8	1
10	2.65	4.80	3/4 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

Bronze Tillers

CAST MANGANESE BRONZE

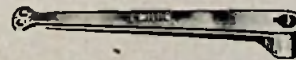


Fig. 810

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	1/8 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	1/8	7

Rudder Ports with Stuffing Box

CAST BRONZE—PLAIN
WITH BRASS GREASE CUPS



Fig. 1089

Eliminates leakage at rudder post entrance through the hull.

Bronze bearing is full length of casting. Assures smooth action with minimum wear.

Size Inches	Each	Size Flange Inches	Length Bearing Inches	Drilled for Fastening Inches	Weight Pounds
3/4	\$8.00	4 x 2	5 1/8	7/8	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	\$.50	\$.55	3/8	2 7/8	3/4	4
0	.55	.60	3/4	3 1/2	3/8	6
1	.75	.80	3/8	4 1/4	3/8	7
2	.90	1.00	1	4 1/2	1	10
3	1.25	1.35	1 1/4	4 3/4	1	11
4	1.60	1.80	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	\$.35	\$.40	5/8	2	7/8	2 1/2
0	.40	.45	3/4	2 1/2	1/2	3 1/2
1	.50	.55	3/8	3	1/2	4 1/2
2	.60	.70	1	3	7/8	5
3	.70	.80	1 1/4	3 1/4	5/8	7
4	.90	1.00	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 Ounc
00	\$.40	\$.45	1 7/8	1	7/8	2
0	.45	.50	2	1 1/8	7/8	3
1	.50	.55	2 1/8	1 7/8	1/2	3 1/2
2	.60		2 3/8	1 1/4	7/8	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 Ounc
00	\$.40	\$.45	3 3/8	3/4	7/8	3 1/2
0	.45	.50	3 1/2	7/8	7/8	4 1/2
1	.50	.55	3 5/8	7/8	1/2	6
2	.60	.65	4 1/4	1	1 1/2	7
3	.75	.85	4 1/2	1 1/8	3/4	8
4	.85	.95	4 3/4	1 1/4	1 1/2	10

SCREW TYPE



Fig. 1074

Size No.	Galv. Each	Plain Bronze Each	Diam. Shank Inches	I. D. Hole Minimum Inches	Weight Ounc
00	\$.20	\$.20	3/8	7/8	1
0	.25	.25	3/8	7/8	1 1/2
1	.35	.35	7/16	7/8	1 1/2
2	.45		1/2	7/8	2

Sliding Rudder Fittings

CAST BRONZE

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

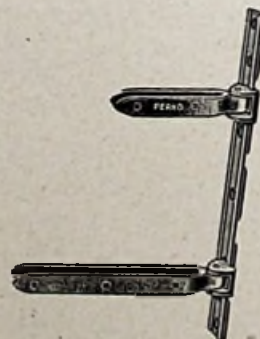


Fig. 552

Between Straps Inches	Width Track Inches	Length Track Inches	Weight Per Set Lb
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

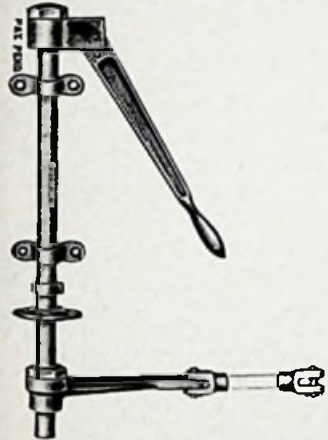
HEAVY CAST BRONZE—POLISHED
FOR 1 INCH OR 1 1/8 INCH SHAFT

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.

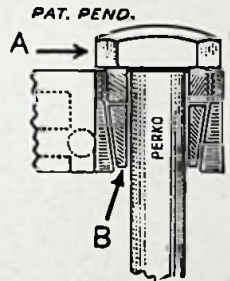


Fig. 663

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.

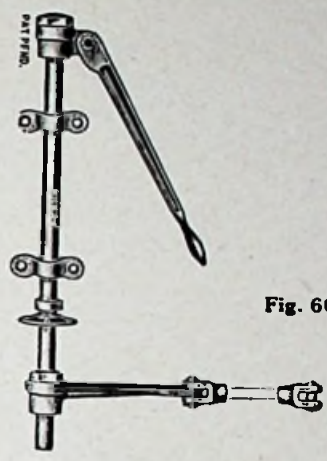


Fig. 664

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

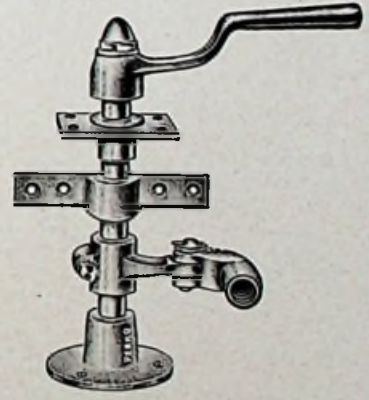


Fig. 822

Supplied with bulkhead bracket or shelf plate (please specify). Shaft is not included.

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

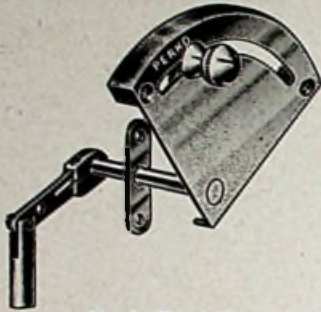
Balance of parts, see Fig. 865, Nos. 3, 4, 6, 9, 11.

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 $\frac{5}{16}$ 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 Frame Inches	Weight Pounds
687	\$4.75	\$ 6.75	5x3 $\frac{1}{4}$	$\frac{7}{8}$
688	8.50	11.00	7x3 $\frac{1}{2}$	1 $\frac{5}{8}$

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 $\frac{5}{16}$ inch rod.

Length of throw is 3 inches.

Fig.	Polished Bronze Each	Chromium Plated Each	Size Frame Inches
690	\$3.75	\$ 5.75	4 $\frac{1}{4}$ x3 $\frac{1}{8}$
691	7.00	10.75	6 x3

Spark and Throttle Controls

FOR CONTROL ROD OR BOWDEN WIRE
FRICTION TYPE—CAST BRONZE

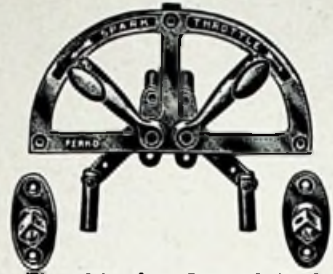


Fig. 653 for Control Rod
Fig. 654 for Bowden Wire

Fig. 653 is equipped with Fig. 328 Rod Sockets, tapped for $\frac{1}{4}$ or $\frac{5}{16}$ 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	\$6.00	\$ 9.00	6 $\frac{1}{2}$ x3 $\frac{1}{4}$	1 $\frac{1}{4}$
654	7.20	10.20	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 $\frac{5}{16}$ 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 $\frac{7}{8}$	4 $\frac{1}{2}$ x3 $\frac{3}{4}$	10
Double	6.25	9.25	2x $\frac{7}{8}$	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 $\frac{1}{2}$	$\frac{1}{8}$	$\frac{1}{8}$	1
2	1.00	3 $\frac{3}{4}$	$\frac{1}{8}$	$\frac{1}{8}$	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

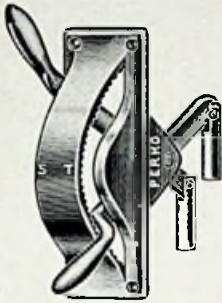


Fig. 331

Length of throw is 3 inches.

Specify whether for $\frac{1}{4}$ or $\frac{1}{8}$ inch rod.

	Chromium Plated Each	Length Plate Inches	Width Plate Inches	Weight Pounds
Polished Bronze Each		6	2½	2¾
\$12.00	\$14.50			

"Sea-Way" Throttle Control

RATCHET TYPE — FOR $\frac{3}{8}$ INCH ROD
CAST BRONZE

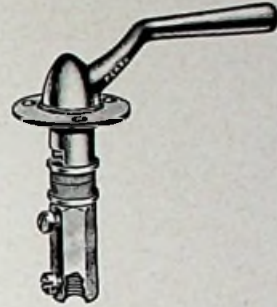


Fig. 847

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 Diam. Rod Inches	Diam. Flange Inches	Weight Pounds
\$8.00	\$9.00	4½	$\frac{3}{8}$	2¾	1

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.



Fig. 716

For Control Rod

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	2¾	2

"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	4½	3½	2¾	1

Control Cranks

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

Side Type

Upright Type



Fig. 636



Fig. 637

Length Arms Inches	Height Overall Inches	Size Base Inches	Weight Single Ounces	Weight Double Ounces
2	2¾	2¼x¾	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. 323, Standard Type.

Specify size of rod when ordering, otherwise $\frac{1}{4}$ inch rod sockets will be supplied.

Spark and Throttle Control

RATCHET TYPE — FOR CONTROL WIRE
CAST BRONZE

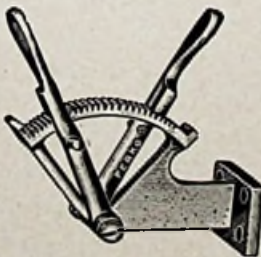


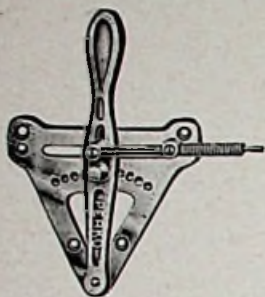
Fig. 409

Length of throw is 3 inches.

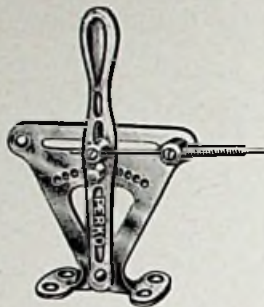
	Polished Bronze Each	Chrom. Plated Each	Length Proje- ction Inches	Extrem- e Mount- ing Plate Inches	Weight Pounds
Single	\$5.50	\$9.00	2⅝	5	$1\frac{1}{8} \times 1\frac{3}{8}$
Double	8.00	12.00	2⅝	5	$1\frac{1}{8} \times 1\frac{3}{8}$

Improved Throttle Controls

RATCHET TYPE — FOR CONTROL WIRE
FORGED 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.	Dull Bronze Each	Polished Bronze Each	Chromium Plated Each	Size Frame Inches	Height Overall Inches	Weight Ounces
350	\$3.25	\$6.25	\$7.25	4 1/2 x 4	6 1/2	12
351	\$3.50	6.50	7.50	4 1/2 x 3 3/4	6 1/2	13

New Safety or Racing Controls

CAST ALUMINUM
INSTANT SHUT-OFF OF MOTOR
WHEN RELEASED

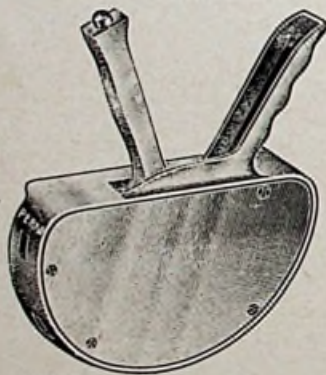


Fig. 247

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

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

BETHANIZED STEEL OR BRASS—FLEXIBLE
1/4 INCH O. D. CASING—LEFT HAND LAY
WIRE DIAMETER .072 INCHES



Fig. 353

Stock Lengths in Feet	Steel, Per Length			Brass, Per Length		
	Complete	Casing Only	Wire Only	Complete	Casing Only	Wire Only
5	\$.70	\$.50	\$.20	\$ 1.35	\$ 1.10	\$.25
7	.95	.70	.25	1.85	1.50	.35
10	1.30	1.00	.30	2.65	2.10	.50
15	1.80	1.35	.45	3.60	3.00	.60
50	6.00	4.50	1.50	12.00	10.00	2.00

Improved Control Wire Handles

FOR CASING WITH RIGHT OR LEFT HAND LAY
ALL BRASS

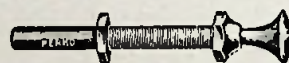


Fig. 692

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 bulkhead up to 2 inches thick.

Polished Brass Each	Chromium Plated Each	Length Overall Closed Inches	Outside Diam. Stem Inches	Weight Ounces
\$1.75	\$2.00	4 1/2	3/8	3

Left hand thread supplied unless otherwise specified

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
\$.60	2 1/4 x 1	3

Control Rod Sockets

PLAIN BRASS

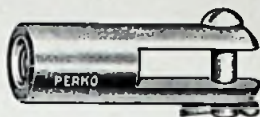


Fig. 328

Fig. 295

No.	Each	Tapped For Rod Inches	Outside Diam. Inches	Overall Length Inches	Between Jaws Inches	Length Jaws Inches
1	.25	1/4-20	7/8	1 1/8	7/8	7/8
2	.25	5/8-18	7/8	1 5/8	7/8	7/8
3	.35	3/8-16	1/2	1 5/8	1/4	3/4
Heavy Duty Fig. 295						
4	.30	1/4-20	1/2	1 3/8	1/4	3/4
5	.30	5/8-18	1/2	1 3/4	1/4	3/4
6	.40	3/8-16	1/2	1 7/8	1/4	1 1/8

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
7	.40	1/4-20	7/8	1 3/8	1/4	7/8
8	.40	5/8-18	7/8	1 5/8	1/4	7/8
9	.50	3/8-16	7/8	1 7/8	1/4	7/8

Length jaws measured to center of pin.

Control Wire Sockets

PLAIN BRASS

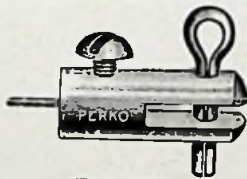


Fig. 679

Complete with brass cotter pin and brass set screws.

Each	Length Inches	Diameter Inches	Between Jaws Inches	Length Jaws Inches	Weight Ounces
\$.30	1	3/8	1/8	1/2	1/2

Length jaws measured to center of cotter pin.

Brass Ball Joints

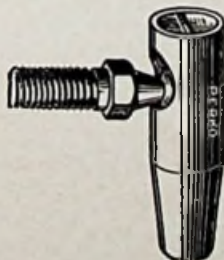


Fig. 792

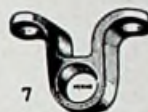
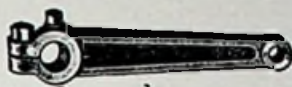
Fig. 793

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

No.	Fig. 792 Each	Fig. 793 Each	Thread	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	5/8-18	1/2	7/8	1

Steerer and Control Parts

CAST BRONZE



PERKO

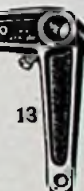
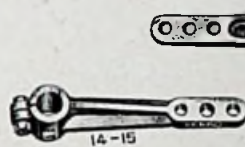


Fig. 865

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	1 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 1/4
4	4.50	3 1/2		1	3/4		1 1/4
5	3.60	3	1 3/4	1	3/4		3/4
13	6.60	**	**			1	1 1/8
†14	5.25	8	5-6			3/4	1
†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	To Center of Bore Inches	Weight Pounds
6	\$4.90	7	1		1	1 1/8	1/2
7	4.90	4 1/2	1		1 or 1 1/8	2	3/4
8	4.80			3 3/4	1		5/8
9	4.00	4	3 1/4		1		1 1/8
10	4.25			4	1 or 1 1/8		1/2
11	4.25			4	1		1
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 1/2 inches high.

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

Stuffing Boxes

CAST BRONZE—REGULAR

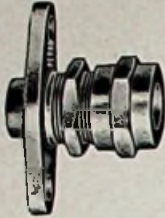


Fig. 320

Shaft Size Inches	Each	Size Flange Inches	For Diam. Bolt Inches	C. to C. Bolt Holes Inches	Length Bearing Inches	Weight Pounds
3/8	\$3.55	3 7/8 x 1 3/4	1 1/8	2 1/2	2 1/8	1 1/8
3/4	3.65	4 x 1 3/4	3/8	2 3/8	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 3/8	1 3/4
1 1/8	5.20	4 7/8 x 2 1/8	1/2	3 3/8	2 7/8	2 1/4
1 1/4	6.15	5 3/4 x 2 3/8	1/2	4 1/8	2 7/8	3
1 1/2	7.15	6 1/4 x 3	1/2	4 3/4	3	3 1/4
1 3/4	8.15	6 1/2 x 3	1/2	5	3	3 1/2
2	12.65	7 x 3 3/4	3/8	5 1/2	4	5 3/4

Stuffing Boxes and Stern Bearings

CAST BRONZE—HEAVY

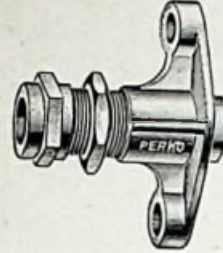


Fig. 631



Fig. 632

Shaft Size Inches	Fig. 631 Each	Fig. 632 Each	Size Flange Inches	For Diam. Bolt Inches	C. to C. Bolt Holes Inches	Lgth. Bearing Inches	Fig. 631 Weight Pounds
1	\$8.80	\$4.55	5 3/4 x 3	1/2	4 5/8	4 1/2	4 1/2
1 1/8	9.10	5.20	6 3/8 x 3 1/4	1/2	5 1/4	4 1/2	5
1 1/4	10.40	6.20	7 x 3 1/2	5/8	5 3/4	4 3/4	6 1/2
1 3/8	11.70	7.80	7 5/8 x 3 3/4	3/8	6 1/4	5 1/4	7 1/2
1 1/2	14.00	9.10	8 x 4	3/8	6 1/2	5 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 5/8	7 5/8	12

Stern Bearings

CAST BRONZE—REGULAR



Fig. 321

Shaft Size Inches	Each	Size Flange Inches	For Diam. Bolt Inches	C. to C. Bolt Holes Inches	Length Bearing Inches	Weight Pounds
3/8	\$1.75	3 7/8 x 1 3/4	1 1/8	2 1/2	2 1/8	3/4
3/4	1.95	4 x 1 3/4	3/8	2 3/8	2 1/8	3/4
7/8	2.15	4 1/8 x 1 7/8	1 1/8	3	2 5/8	1
1	2.40	4 1/4 x 2 1/8	1 1/8	3	2 3/8	1 1/4
1 1/8	2.90	4 7/8 x 2 1/8	1/2	3 3/8	2 7/8	1 1/2
1 1/4	3.60	5 3/4 x 2 3/8	1/2	4 1/8	2 7/8	2
1 1/2	4.55	6 1/4 x 3	1/2	4 3/4	3	2 1/4
1 3/4	5.10	6 1/2 x 3	1/2	5	3	2 1/2
2	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	3/8	5 1/8 x 3 1/4	7	13 1/2
2	26.00	7 3/4 x 5	3/8	5 7/8 x 3 3/8	7 3/8	15 1/2

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				
3/4	1.55	.65				
7/8	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

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

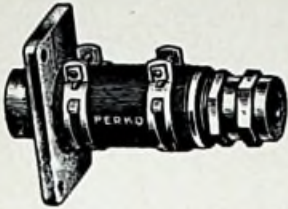


Fig. 734

No.	Each	For Shaft Inches	Size Flange Inches	Length from Flange to End of Box Inches	Weight Pounds
1	\$8.50	3/4	5x3 1/4	6 1/2	5
2	8.50	7/8	5x3 1/4	6 1/2	5
3	9.50	1	5x3 1/4	6 3/4	5
4	12.00	1 1/8	6x4 1/4	7 3/4	9
5	12.00	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

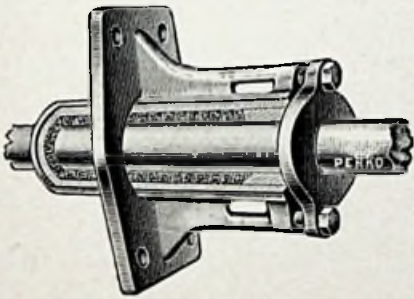


Fig. 811

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 3/8	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 5/8	12 1/4

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

Iron Shaft Couplings

CAST IRON

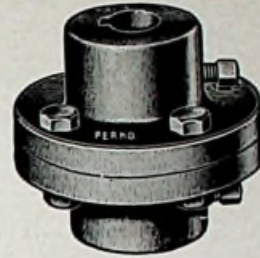


Fig. 327

No.	Each	For Diameter Shaft Inches	Diam. Flange In.	Lgth. Overall In.	Wt. Lbs.
0	\$4.75	5/8, 3/4	3	2 5/8	2 1/2
1	6.25	3/8, 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 1/2	5	4 3/4	10 3/4
14	21.00	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	5/16	1 3/8 - 1 1/2	3/8
1 - 1 1/8	1/4	1 5/8 - 1 3/4	5/16
1 1/4	5/16	1 7/8 - 2	1/2

Bronze Shaft Couplings

CAST BRONZE

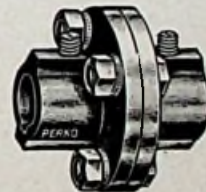


Fig. 389

Set screws, bolts and washers are all bronze.

Each	For Diameter Shaft Inches	Keyway Inches	Diam. Flange Inches	Lgth. Overall Inches	Wt. Lbs.
\$6.25	5/8, 3/4, 7/8, 1	3/16	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.

Brass Wing Nuts

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
5/16	24	\$.12	5/16	14	\$.35
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

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	3/8	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 3/8 or 3/4 inch shaft.

Adjustable Shaft Logs

CAST BRONZE—EXTRA HEAVY

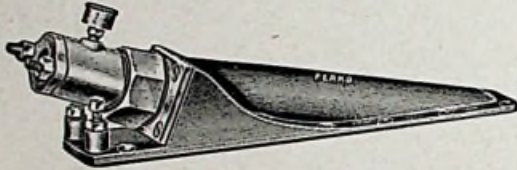


Fig. 627

Furnished complete with grease cup.

No.	Each	Size Shaft Inches	Length Base Inches	Width Base Inches	Weight Pounds
1	\$22.50	3/4	16	3 1/2	14
2	22.50	7/8	16	3 1/2	14
3	22.50	1	16	3 1/2	14
4	36.00	1 1/8	22	4 1/4	19
5	37.00	1 1/4	22	4 1/4	19
6	56.00	1 3/8	26	5	30
7	57.00	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 5/8	11
2	21.50	3/8	17 3/4	14	3 5/8	11
3	21.50	1	17 3/4	14	3 5/8	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
WITH STAINLESS STEEL HOSE CLAMPS
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 Shaft Inches	Size Base Inches	Length Overall Inches	Degrees of Pitch	Wt. Lbs.
0	\$ 9.00	3/8	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	20.00	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



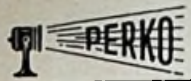
Fig. 672

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	3/8	\$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 3/4 inch shaft; same is used on Shaft Log Fig. 695.



Adjustable Struts

ALL CAST BRONZE
MARINE BABBITT BEARING

Side View

End View

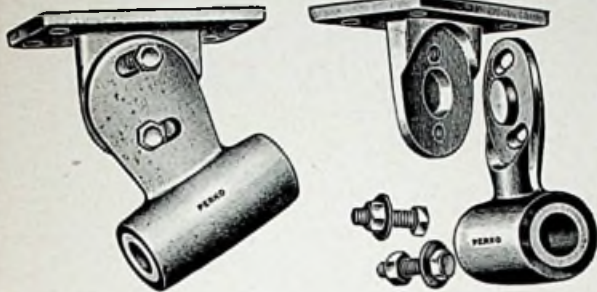


Fig. 628

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.

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

Specify Size Shaft and Length of Drop, When Ordering

New "Perko" Solid Struts

MANGANESE BRONZE—STREAMLINED
WITH BABBITT BEARING

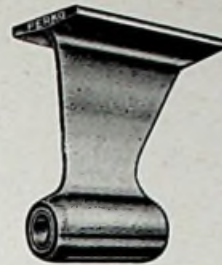


Fig. 633

Supplied without bolt holes in base

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.

Plain Bronze Each	Diam. Shaft Inches	Size of Base Inches	Length Bearing Inches	Weight Pounds
\$5.00	3/8 or 3/4	3 1/2 x 2 1/4	2 1/4	2

Adjustable Struts

FOR RUBBER OR BABBITT BEARINGS
CAST BRONZE—EXTRA HEAVY

Size Shaft Inches	Width Flange Inches	Length Flange Inches	Length Bearing Inches	Size Shaft Inches		
				1 1/8	1%	1 1/2
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				1 1/8	1%	1 1/2
	3/4	7/8	1	1 1/8			
5	\$20.00	\$20.50	\$21.00	\$21.50			
6	20.50	21.00	21.50	22.00	\$30.00	\$31.00	\$32.00
7	21.00	21.50	22.00	22.50	30.75	31.75	32.75
8	21.50	22.00	22.50	23.00	31.50	32.50	33.50
9		23.50	24.00	22.50	32.50	34.00	35.50
10		24.50	25.00	23.50	33.50	35.00	36.50
11				35.00	37.00	39.00	
12				37.00	39.00	41.00	

Specify Size Shaft and Length of Drop, When Ordering

New "Perko" Babbitt Bearings

WITH BRONZE SLEEVE

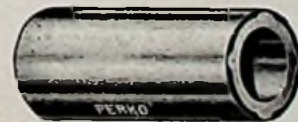


Fig. 640

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	\$4.50	1 1/4	3
7/8	5.00	1 3/8	3 1/2
1	5.50	1 1/2	4
1 1/8	6.00	1 5/8	4 1/2
1 1/4	6.50	1 3/4	5
1 3/8	7.50	1 7/8	5 1/2
1 1/2	8.50	2	6

B. F. GOODRICH CUTLESS RUBBER BEARINGS

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.

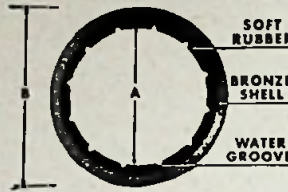


Fig. 10 21

STANDARD BEARINGS STOCK SIZES—TABLE OF DIMENSIONS, WEIGHTS AND PRICES

Sizes Shown Here are in Stock for Immediate Shipment

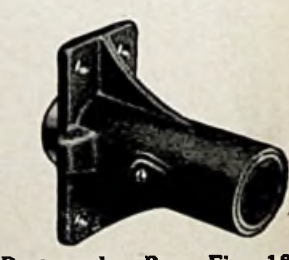
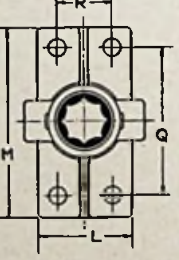
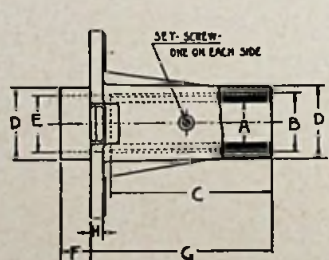
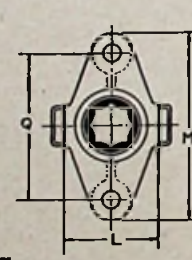
Code	A-Shaft Diameter	B-Outside Diameter	Standard Length	Shipping Weight, Lbs.	Price Each	Special Length Price per Lin. In.	Code	A-Shaft Diameter	B-Outside Diameter	Standard Length	Shipping Weight, Lbs.	Price Each	Special Length Price per Lin. In.	Code	A-Shaft Diameter	B-Outside Diameter	Standard Length	Shipping Weight, Lbs.	Price Each	Special Length Price per Lin. In.
KALE.....	3/4"	1 1/4"	3"	3/4	13.70	12.49	KITEM.....	1 1/2"	2 5/8"	7 1/2"	3 1/2	22.90	13.67	NEPHEW.....	3 3/8"	4 1/2"	14 1/2"	12 3/4	\$81.70	\$5.12
KATY.....	7/8"	1 3/8"	3 1/2"	3/4	7.80	2.49	KITEZ.....	1 1/2"	2 1/4"	7 1/2"	4	22.90	3.67	NEPTUNE.....	3 3/8"	4 1/2"	15"	10 1/2	68.50	5.50
KATZ.....	7/8"	1 3/8"	3 3/4"	1	7.83	2.49	KITH.....	2"	2 3/8"	8"	3 1/2	24.60	3.72	NERVE.....	3 3/8"	5"	15"	17 3/4	68.50	5.50
KAYAK.....	1"	1 3/8"	4"	1	9.00	2.62	KNAVE.....	2"	3"	8"	4 1/2	24.60	3.72	NEST.....	3 3/8"	5 1/4"	15"	18	68.50	5.50
KEFER.....	1"	1 3/8"	4"	1 1/4	9.00	2.62	KNIT.....	2 1/4"	2 1/4"	8 1/4"	4 1/2	26.50	3.72	NEWELL.....	3 3/8"	5 1/4"	15 1/2"	20	73.20	5.81
KEEPER.....	1"	2"	4"	1 3/4	9.00	2.62	KNOB.....	2 1/4"	3 1/4"	8 1/2"	4 1/2	26.50	3.72	NIBBLE.....	4"	5"	16"	28	78.70	5.92
KERSEY.....	1 1/4"	1 3/4"	4 1/2"	1 1/2	10.80	2.75	KNOLL.....	2 1/4"	2 1/4"	9"	4 1/2	26.60	3.78	NIBBLED.....	4"	5 1/4"	16"	29 1/2	78.70	5.92
KEFERN.....	1 1/4"	1 3/4"	4 1/2"	1 1/2	10.80	2.75	KORAN.....	2 1/4"	3 3/4"	9"	5	26.60	3.78	NIBBLING.....	4 3/4"	5 3/4"	16 3/4"	31	82.40	6.15
KID.....	1 1/4"	2"	4 1/2"	1 3/4	10.80	2.75	KUMISS.....	2 1/4"	3 3/8"	9"	6	26.60	3.78	NICETY.....	4 3/4"	5 1/2"	17"	29 3/4	85.60	6.15
KIDNAP.....	1 1/4"	1 3/4"	5"	1 1/2	12.40	2.81	NABAS.....	2 3/4"	3 3/8"	9 1/2"	6	30.80	3.81	NICHE.....	4 3/8"	5 3/4"	17 3/4"	33 1/2	89.50	6.26
KIANO.....	1 1/4"	2"	5"	1 3/4	12.40	2.81	NAKED.....	2 3/4"	3 1/4"	10"	5	31.80	3.87	NICK.....	4 3/8"	5 1/2"	18"	33 3/4	94.30	6.43
KIDNEY.....	1 1/4"	2 1/8"	5"	2	12.40	2.81	NATION.....	2 3/4"	3 3/8"	10"	6	31.80	3.87	NIGGARD.....	4 1/2"	5 3/8"	18"	35	94.30	6.43
KIN.....	1 1/4"	1 3/4"	5 1/2"	2	13.70	2.99	NATISM.....	2 5/8"	3 3/8"	10 1/2"	5 1/2	34.70	4.02	NIGGARDLY.....	4 3/8"	6 1/4"	18 1/2"	39	102.90	7.10
KINCY.....	1 1/4"	2 1/8"	5 1/2"	2 1/4	13.70	2.99	NATIVE.....	2 3/4"	3 3/8"	11"	5 1/2	38.50	4.27	NIGHTLESS.....	4 3/8"	6 1/4"	19"	43 1/4	110.80	7.43
KINDLE.....	1 1/4"	2 1/8"	5 1/2"	2 1/2	13.70	2.99	NATURE.....	2 3/4"	3 3/8"	11"	6	38.50	4.27	NIGHTLY.....	4 1/2"	6 3/8"	19 1/2"	43	116.40	7.63
KINE.....	1 1/4"	2"	6"	2	15.80	3.13	NAVAL.....	2 1/2"	3 3/8"	11 1/4"	6 1/2	39.90	4.35	NIGHT.....	5"	6 1/2"	20"	45	122.60	7.85
KINGDOM.....	1 1/4"	2 3/8"	6"	2 1/2	15.80	3.13	NAVY.....	3"	3 3/4"	12"	8	42.40	4.40	NOBLE.....	5"	6 3/8"	20"	50 1/2	122.60	7.85
KINKY.....	1 1/4"	2 1/8"	6 1/2"	2 1/4	18.40	3.40	NECK.....	3"	4"	12"	8 1/2	42.40	4.40	NOBODY.....	5 3/4"	7"	21"	80 1/4	136.10	8.30
KINSHIP.....	1 1/4"	2 3/8"	6 1/2"	3	18.40	3.40	NECKING.....	3 1/8"	4 1/4"	12 1/2"	8 1/2	45.60	4.46	NOBODY.....	5 3/8"	7"	21 1/2"	75	132.60	8.50
KIP.....	1 3/4"	2 3/8"	7"	2 3/4	20.80	3.56	NECTAR.....	3 1/4"	4"	13"	9 1/4	49.00	4.63	NOMAD.....	5 1/2"	7"	22"	65	138.60	8.69
KITE.....	1 3/4"	2 3/8"	7"	3 1/4	20.80	3.56	NEGATIVE.....	3 1/4"	4 1/4"	13"	10	49.00	4.63	NOMAR.....	5 3/8"	7"	22 1/2"	70	154.70	8.84

*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 babbitted 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.

Dimensions of Cutless Bearings	Order by Pattern Number											Pat. No. Base	Drilled for Bolts, In.	Pat. No. Oval Base	Drilled for Bolts, In.	Price Complete with Cutless Bearing
	A	B	D	E	F	G	L	M	Q	R						
3/4"	1 1/4"	1 3/8"	1 3/8"	1 3/8"	1 1/2"	3 1/2"	2 1/4"	4 3/8"	3 1/2"	1 1/2"	B-1	3/4	B-3	3/4	\$ 13.40	
1"	1 1/2"	1 1/2"	1 3/8"	1 1/2"	1 1/2"	4"	2 3/4"	4 3/8"	3 3/8"	1 3/4"	B-2	3/4	B-1	3/4	14.60	
1 1/4"	1 3/4"	2"	1 1/2"	1 1/2"	1 1/2"	4 3/8"	2 3/4"	4 3/8"	3 3/8"	1 3/4"	C-1	3/4	C-9	3/4	15.30	
1 1/2"	2"	2 1/8"	1 3/4"	1 3/4"	1 3/4"	5 1/4"	2 3/4"	5 1/4"	4 1/4"	1 1/2"	C-2	3/4	C-10	3/4	18.90	
1 3/4"	2 1/4"	2 1/2"	1 3/4"	1 3/4"	1 3/4"	5 1/2"	3"	5 1/2"	4 1/2"	1 3/4"	C-3	3/4	C-11	3/4	22.80	
2"	2 3/4"	2 3/4"	1 3/4"	1 3/4"	1 3/4"	6 1/4"	3 1/4"	6 1/4"	5 1/4"	1 3/4"	C-4	3/4	C-12	3/4	25.00	
2 1/4"	2 3/4"	2 3/4"	1 3/4"	1 3/4"	1 3/4"	6 3/4"	3 3/4"	6 3/4"	5 1/4"	2"	C-5	3/4	C-13	3/4	33.00	
2 1/2"	3"	3"	1 3/4"	1 3/4"	1 3/4"	7"	4"	7"	6 1/4"	2 1/4"	C-6	3/4	C-14	3/4	40.40	
2 3/4"	3 1/4"	3 1/4"	1 3/4"	1 3/4"	1 3/4"	7 1/4"	4 1/4"	7 1/4"	6 1/4"	2 1/4"	C-7	3/4	C-15	3/4	59.60	
3"	3 1/2"	3 1/2"	1 3/4"	1 3/4"	1 3/4"	8 1/4"	4 3/4"	8 1/4"	7 1/4"	2 1/4"	C-8	3/4	C-16	3/4	66.00	
2 1/4"	3 1/4"	3"	1 3/4"	1 3/4"	1 3/4"	11"	5 3/4"	11"	9"	3 1/4"	E-20	3/4	.....	.....	95.00
2 3/4"	3 3/4"	3 1/2"	1 3/4"	1 3/4"	1 3/4"	12"	6 3/4"	12 3/4"	9 1/4"	3 3/4"	E-21	3/4	.....	.....	114.00
3"	4"	4 1/2"	1 3/4"	1 3/4"	1 3/4"	13"	7"	14"	10 1/2"	4"	E-22	1	.....	.....	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	\$3.10	4 x 1 1/8	3 1/8	1/4	1
3/4	3.10	4 1/4 x 1 3/16	3 1/2	5/16	1 1/8
7/8	3.10	4 1/4 x 1 1/4	3 3/8	5/8	1 1/4
1	3.10	4 7/8 x 1 1/2	3 3/4	3/8	1 1/2
1 1/8	3.65	5 1/4 x 1 3/8	4 1/4	3/8	2 1/8
1 1/4	3.65	5 1/2 x 1 3/4	4 1/4	3/8	2 3/8
1 3/8	4.60	5 7/8 x 1 7/8	4 5/8	3/8	3 1/2
1 1/2	4.60	6 1/4 x 2	4 7/8	7/16	4 1/4
1 3/4	5.75	6 7/8 x 2 1/4	5 3/8	1/2	6
2	7.10	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



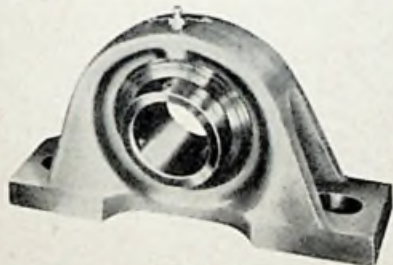
Fig. 786

Fig. 942

Diameter Shaft Inches	Fig. 786 Each	Fig. 942 Each	Outside Diameter Inches	Thickness Inches
3/8	\$2.55	\$1.70	1 1/32	9/16
3/4	3.05	1.75	1 15/32	9/16
7/8	3.20	1.90	1 27/32	5/8
1	3.30	2.05	1 31/32	3/4
1 1/8	3.40	2.20	2 1/32	3/4
1 1/4	3.60	2.30	2 11/32	3/4
1 3/8	4.20	2.60	2 17/32	5/8
1 1/2	4.50	3.10	2 21/32	3/4
1 5/8	4.75	3.40	2 25/32	13/16
1 3/4	5.50	3.70	3 1/32	13/16
2	6.45	4.50	3 11/32	15/16
2 1/4	7.75	5.25	3 27/32	15/16
2 1/2	9.60	7.00	3 31/32	1 3/16

Intermediate Shaft Bearings

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



Thrust Ball Bearings

GROOVED RACES
STEEL RETAINING BAND



Fig. 943

Diam. Shaft Inches	Each	Outside Diam. Inches
3/8	\$1.30	1 1/32
3/4	1.55	1 15/32
7/8	1.65	1 27/32
1	1.75	1 31/32
1 1/8	1.85	2 3/32
1 1/4	2.00	2 11/32
1 3/8	2.45	2 17/32
1 1/2	3.45	2 27/32
1 5/8	4.30	2 31/32
1 3/4	5.00	3 3/32
2	7.00	3 11/32
2 1/4	7.20	3 27/32
2 1/2	8.25	3 31/32

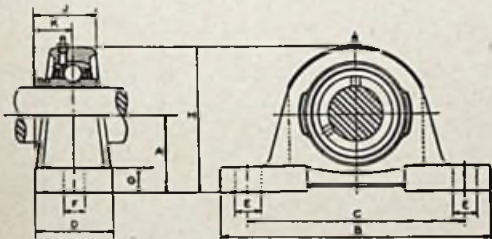


Fig. 790

For Shaft In.	Each	For Bolt In.	A In.	B In.	C In.	D In.	H In.	Shipping Wt. Lbs.
3/8	\$11.55	1/2	1 3/4	7	5 3/8	2	3 9/16	3 1/2
1	11.55	1/2	1 3/4	7	5 3/8	2	3 9/16	3 1/2
1 1/8	13.75	1/2	2	7 1/2	5 3/4	2	3 7/8	5
1 1/4	16.50	3/8	2 3/8	8 1/4	6 1/4	2 1/4	4 1/2	6 1/2
1 3/8	16.50	3/8	2 3/8	8 1/4	6 1/4	2 1/4	4 1/2	6 1/2
1 1/2	18.15	3/8	2 5/16	8 1/2	6 1/2	2 3/8	4 9/16	7 1/2
1 3/4	19.50	3/8	2 3/8	8 3/4	6 1/2	2 3/8	4 3/8	8
2	29.70	3/8	3 1/8	11 1/4	8 1/2	2 3/4	6	15
2 1/4	34.10	3/4	3 1/8	11 1/2	8 3/8	3	6	16
2 1/2	39.60	3/4	3 3/4	12 3/8	10	3 3/8	7 1/8	21

Safety Shaft Collars

CAST SEMI STEEL—MACHINED



Fig. 787

Shaft Size Inches	Each	Outside Diameter Inches	Width Inches
3/8	\$.50	1 3/16	9/16
3/4	.55	1 9/16	3/4
7/8	.65	1 11/16	13/16
1	.75	1 13/16	7/8
1 1/8	1.00	2	1
1 1/4	1.10	2 5/16	1 1/8
1 3/8	1.40	2 7/16	1 3/16
1 1/2	1.40	2 9/16	1 1/4
1 3/4	2.50	3	1 5/16
2	2.65	3 3/8	1 3/8

Exhaust Pipe Flanges

CAST BRONZE



Fig. 214

For Pipe Inches	Inside Diameter Inches	Outside Diameter Inches	Weight Each
2	2 ³ / ₈	4	11 oz.
2½	2 ⁷ / ₈	4½	14 oz.
3	3½	5½	1¼ lbs.
3½	4	6	1½ lbs.
	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
Size			
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

Rubber Engine Mountings

OIL RESISTING SYNTHETIC RUBBER FOR MARINE ENGINE INSTALLATION

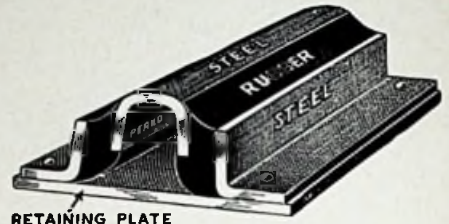


Fig. 455

Capacity 40 lbs. per lineal inch.

Made of 3 metallic members securely bonded to 2 resilient rubber elements arranged in such a manner that 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 1/4	1 1/2	1 3/8

Length, Inches	2	3	4	5	6
With Plate, Each	\$3.60	\$4.75	\$5.80	\$6.80	\$7.80
Without Plate, Each	2.20	3.30	4.40	5.40	6.40
Capacity, Pounds	80	120	160	200	240

Can be supplied in additional lengths up to five feet. Price on application.

Exhaust Tube Flanges

CAST BRONZE



Fig. 738

For Tubing Inches	Inside Diam. Inches	Outside Diam. Inches	Weight Each
2	2 ¹ / ₂	4	11 oz.
2½	2 ⁷ / ₈	4½	14 oz.
3	3 ¹ / ₂	5½	1 lb.
3½	3 ⁷ / ₈	5½	1¼ lbs.
4	4 ¹ / ₂	6	1½ lbs.
	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
Size			
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

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	¾	1	¾

Brass Grease Cups



Fig. 961

No.	Each	Height Closed Inches	Outside Diam. Inches	Pipe Thread Inches	Capacity Ounces
1	\$.40	1 ¹ / ₈	¾	1/8	¼
2	.50	1 ¾	1 ³ / ₈	1/8	½
3	.70	2	1 ⁷ / ₈	1/8	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	7 1/8	12¾
3	32.00	28.50	25.00	9 1/8	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 1/8	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

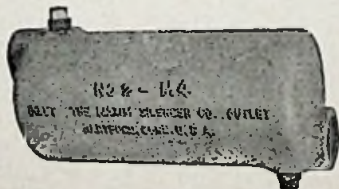


Fig. 755

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	7¼	4
¾	7.00	3½	8¼	5
1	8.50	3¾	9	6
1¼	9.50	4¼	9½	10

Monel Maxim Silencers

WET TYPE—MODEL MO
CONSTRUCTED ENTIRELY OF MONEL METAL
COMPACT SIZE—LIGHTWEIGHT



Fig. 771

A new development and a departure from the usual heavy cast type. It weighs only one-third as much.

It is extremely resistant to corrosion and will give long service life. Its compactness makes it ideal for installation where space is limited.

For Exhaust Pipe Inches	Each	Diam. Inches	Length Overall Inches	Water Inlet Inches	Weight Pounds
1½	\$40.00	2¾	15	½	4
2	56.00	3 5/8	18	¾	7
2½	78.00	4½	21	1	11
3	95.00	5 3/8	24¼	1¼	16
3½	140.00	6 5/8	27¾	1½	28
4	158.00	7 1/8	30¾	1½	38
5	200.00	9	37¼	2	60
6	236.00	10¾	43	2	80
8	405.00	14¼	55½	2½	135

All above have male pipe threads, flanges extra.

Universal Marine Hose Clamps

ENTIRELY 18-8 STAINLESS STEEL
DOUBLE STRAP
INSTANTLY ADJUSTABLE FOR ANY SIZE
HOSE UP TO 3½ INCH

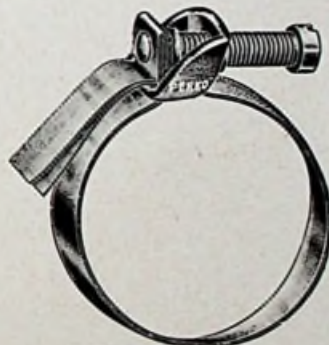


Fig. 499

This clamp is designed and manufactured primarily for marine and aircraft use. The double straps of stainless steel are non-corrosive and allow extreme flexibility with great strength.

Uniform pressure on entire circumference of hose, no distortion or crimping to permit leaks.

This one size does the job of eight or more sizes necessary when ordinary hose clamps are used.

These may be used for larger sizes of hose such as 5 or 6 inch by joining two or more clamps together, used in this way the size range is practically unlimited.

Extremely easy to install or remove, will not slip or loosen from vibration.

Each	Length Open Inches	Width Strap Inches	Diam. Screw Inches	Weight Ounces
\$0.50	12	½	¾	1½

Packed 50 Clamps Per Box

Improved Gasoline Strainers

WITH "KWICK KLEAN" FILTER ELEMENTS
CAST BRONZE HOUSING

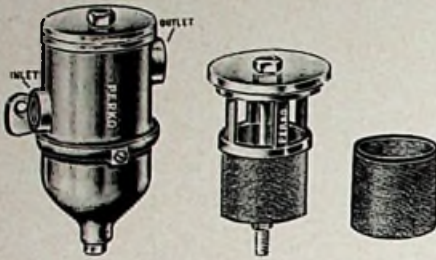


Fig. 299

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	\$ 7.50	\$1.00	5½	2¾	¼ or ⅜	3
1½	10.50	1.20	6¼	3⅛	⅜ or ½	5
2	14.25	1.40	7¼	3⅞	½ or ¾	7

Intake Water Strainers

CAST BRONZE
MONEL SCREEN — LUCITE CYLINDER

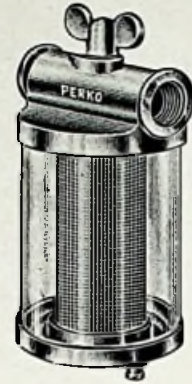


Fig. 493

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	4 ⅜	5
2	26.50	¾	10¼	5 ⅜	7½
3	26.50	1	10¼	5 ⅜	7½
4	28.00	1¼	10¼	5 ⅜	7½
5	39.00	1½	13¼	7	14½
6	72.00	2	19	9	22

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	⅜	4¼	2½	9½
2	3.00	.85	¼	4¼	2½	9½

Gasoline Funnels

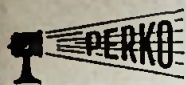
GALVANIZED—WITH STRAINER



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	6⅝	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
\$18.50	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

Cast Bronze Fog Bell

HEAVY WEIGHT—WITH REMOVABLE BRACKET



Fig. 150

Bottom Diam. Inches	Polished Each	Chrom. Plated Each	Wall Plates Only		Hgt. Inches	Wt. Lbs.
			Polished Each	Chrom. Plated Each		
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

Wrought Brass Fog Bells

WITH REMOVABLE BRACKET
PRESSED BELL METAL



Fig. 159

Diam. Inches	Plain Brass Each	Polished Brass Each	Chromium Plated Each	Height Overall Inches	Weight Pounds
6	\$4.40	\$5.20	\$7.00	4	1
8	6.40	7.20	9.00	5	2 1/2
Wall Plate only	.75	.90	1.25	1 7/8	1/8
Arm only	1.40	1.60	2.20	4 1/4	1/8

Cast Bronze Fog Bells

LIGHTWEIGHT—WITH REMOVABLE BRACKET



Fig. 581

Diam. Inches	Polished Each	Chromium Plated Each	Height Overall Inches	Weight Pounds
6	\$10.00	\$14.50	4 1/8	3
8	13.75	18.00	5 1/4	5
Wall Plate only	1.10	1.65	2	1/8

Cast Bronze Fog Bell

MEDIUM WEIGHT—WITH REMOVABLE BRACKET



Fig. 420

Diam. Inches	Polished Each	Chromium Plated Each	Wall Plates Only		Height Overall Inches	Wt. Lbs.
			Polished Each	Chromium Plated Each		
6	\$13.00	\$17.50	\$1.40	\$1.90	5	4
8	21.00	25.00	1.90	2.75	6 1/8	8



New "Sea Echo" Horn

BRASS COVER AND PROJECTOR
BRASS SCREEN—CAST BRASS BASE
6-12 OR 32 VOLTS—CHROMIUM PLATED

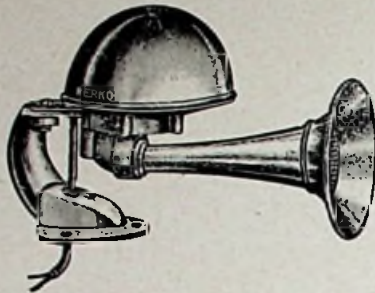


Fig. 590

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	\$25.50	10 3/4	7 1/8	4 1/4
12	27.00	10 3/4	7 1/8	4 1/4
32	35.00	10 3/4	7 1/8	4 1/4

New "Sea-Tone" Horn

ALL BRASS — CHROMIUM PLATED — WATER-TIGHT — WEATHERPROOF — RESONATING VOLTAGES 6—12—32—110 D. C.

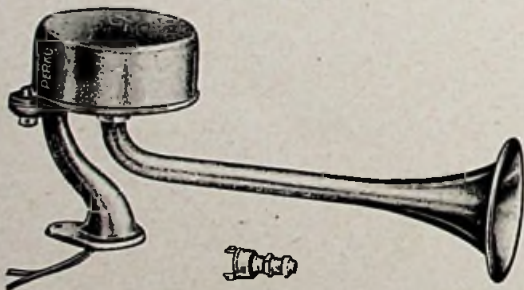


Fig. 576

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	\$50.00	19	8 1/2	6 1/2
12	52.50	19	8 1/2	6 1/2
32	52.50	19	8 1/2	6 1/2
110 D.C.	68.00	19	8 1/2	6 1/2

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

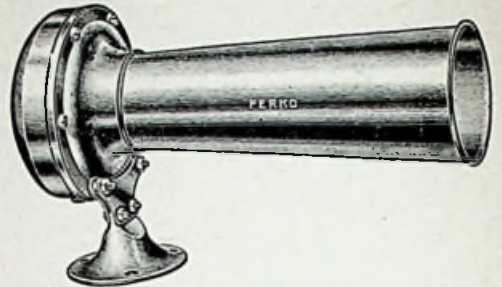


Fig. 75

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	7 1/4	3 7/8	4
2	22.50	25.00	15 3/4	8 1/2	3 7/8	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

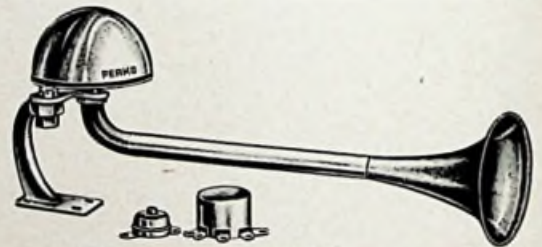


Fig. 989

No.	6 Volt		Length Inches	Width Inches	Height Inches	Wt. Lbs.
	Pol. Brass Each	Chrom. Plated Each				
1	\$20.00	\$22.50	22	5 1/2	9	7

For 12 volt add \$2.00.
For 32 volt add \$3.50.

Super-Blaster Twin Horns

WITH PUSH BUTTON, CABLE AND RELAY

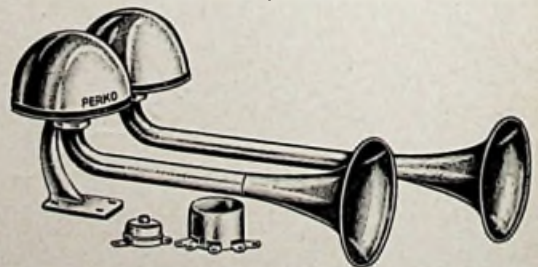


Fig. 990

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 OR 12 VOLTS

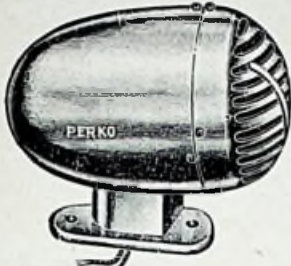


Fig. 1120

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.

6 Volt Each	12 Volt Each	Length Inches	Height Inches	Diameter Inches	Weight Pounds
\$25.00	\$27.00	7	6	4½	4¼

Specify voltage when ordering.

Marine Sirens

DIE CAST WHITE METAL
CHROMIUM PLATED—6 OR 12 VOLTS

THE SEA-MITE

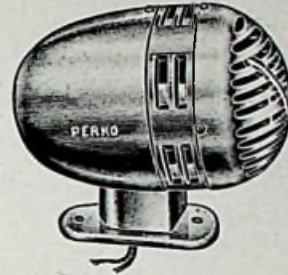


Fig. 1117

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	\$27.50	7	6	4½	4¼
12	29.75	7	6	4½	4¼

Heavy Duty Marine Siren

DIE CAST WHITE METAL
CHROMIUM PLATED—6, 12 OR 32 VOLTS

THE YACHTSMAN

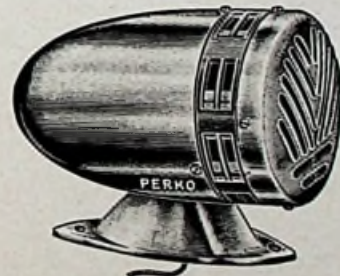


Fig. 1118

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.

6 Volt Each	12 Volt Each	32 Volt Each	Length Inches	Height Inches	Diam. Inches	Weight Pounds
\$50.00	\$52.50	\$58.00	10⅞	7½	5¾	10

Remote Control Relays

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

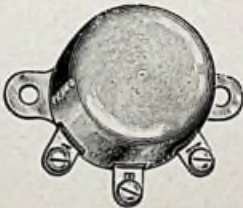


Fig. 273

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
\$2.00	\$2.75	\$3.50	1⅝	3¼	4½

Specify voltage when ordering.

NOTE — PLEASE SPECIFY VOLTAGE, OTHERWISE 6 VOLT WILL BE SUPPLIED.

Boat Cleats

GALVANIZED IRON OR BRONZE



Fig. 544

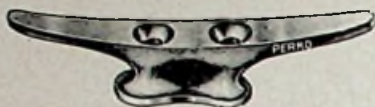


Fig. 544-A

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			\$.45	\$.55	\$.95	1/8
3 1/2	\$.18	\$.28				1/4
4	.20	.33	.60	.75	1.15	1/4
5	.30	.42	.70	.85	1.30	1/2
6	.35	.55	1.00	1.15	1.65	1/2
8	.65	1.10		1.95	2.65	1 1/8
10	1.40	1.75		2.85	4.15	2
12	2.00	2.50		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	\$1.70	\$2.35	1/2
5 1/2	1.80	2.45	5/8
6 1/2	2.00	2.65	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	Polished Bronze Each	Chromium Plated Each	For Rope Inches	Weight Pounds
4	\$1.35	\$2.25	1/4	1/2
5	1.65	2.50	3/8	3/4
6	2.25	3.25	1/2	1
8	4.25	5.75	3/4	1 3/4

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, CHROMIUM PLATED



Fig. 566

Length Inches	Chrom. Plated Each	Size Base Inches	For Diam. Rope Inches	Weight Ounces
3	\$.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 7/8	1 1/8	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 OR BRONZE



Fig. 546

Lgth. Inch.	Galv. Iron Per Pair	Dull Bronze Per Pair	Polished Bronze Per Pair	Chrom. Plated Per Pair	Width Inches	For Diam. Rope Inches	Wt. Per Pair Lbs.
3	\$.40	\$1.25	\$1.50	\$2.60	3/8	1/4	1 1/8
4	.45	1.50	1.80	3.25	3/4	1/2	1 1/2
5	.70	2.25	2.60	4.45	7/8	3/4	1
6	1.25		4.25	6.75	1 1/8	7/8	1 1/2
8	2.00		6.25	9.25	1 1/4	1	3
10	3.25		10.50	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

NOTE—3, 4 and 5 inch sizes are forged bronze.
Balance of sizes are cast bronze.

Straight Stern Chocks

GALVANIZED OR BRONZE



Fig. 119

Length Inches	Galv. Iron Each	Dull Bronze Each	Polished Bronze Each	Chrom. Plated Each	Width Inches	For Diam. Rope Inches	Wt. Each Lbs.
4	\$.25	\$.85	\$1.00	\$1.75	7/8	1/2	1/2
5	.40	1.15	1.35	2.35	1	3/8	1/2
6	.65		2.00	3.20	1 1/4	3/4	3/8
8	1.30		3.50	5.00	1 3/8	1	1 1/2
10	1.50		5.75	7.80	1 7/8	1 1/4	2 1/2
12	3.40		9.75	12.00	2 3/8	1 3/8	7 1/2
15	7.50				3 3/8	1 3/4	20
18	11.00				3 1/2	2	31

NOTE—4 and 5 inch sizes are forged bronze.
Balance of sizes are cast bronze.

Skene Bow Chocks

CAST BRONZE



Fig. 160

Size No.	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Inches	Width Inches	Opening Inches	Weight Pair Pounds
1	\$ 2.85	\$ 4.40	4 1/2	7/8	3/4	3/4
2	4.30	6.05	5 1/2	1 1/8	1	1 1/2
3	7.15	9.10	7 3/4	1 1/2	1 1/4	3 3/4
4	10.00	12.35	8 1/2	1 3/8	1 1/2	5
5	15.00	18.00	10 1/2	2	2	8

Skene Stern Chocks

CAST BRONZE



Fig. 161

Size No.	Polished Bronze Each	Chromium Plated Each	Length Inches	Width Inches	Opening Inches	Weight Each Pounds
11	\$ 1.30	\$ 1.95	4	7/8	5/8	1/2
12	2.15	3.25	5 1/2	1 3/8	1	1
13	4.55	5.85	7	1 3/4	1 1/2	2
14	8.50	10.50	9	2 1/4	2	4

Skene Bulwark 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

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 3/8	1 1/2
2	11.00	13.75	11 1/2	1 3/4	3	1 3/4

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

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	3/8	2 1/4
01	4.30	5 3/4	3 1/2 x 3 1/2	3/8	4
1	4.80	6 3/4	5 x 5	1/2	6
1 1/2	7.00	8 1/4	5 1/2 x 5 1/2	5/8	9
2	10.50	10	5 1/2 x 7 1/2	3/4	18

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	\$ 6.50	\$ 8.00	4 1/2 x 4 1/2	3 1/2	3/4
2	12.50	16.00	6 x 6	5	1

Mooring Bitts

CAST BRONZE

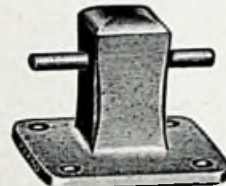


Fig. 608

No.	Size Base Inches	Height Inches	Weight Lbs.
1	3 x 3	2 1/2	7/8
2	4 1/2 x 4 1/2	3 1/2	1 1/8
3	6 x 6	5	5 3/8
4	7 x 7	6 1/2	12

No.	Polished Bronze Each	Chromium Plated Each
1	\$4.00	\$ 5.75
2	5.00	6.75
3	10.00	13.50
4	16.00	20.00

Deck Plate Key

CAST BRONZE

ADJUSTABLE TO ALL SIZES OF DECK PLATES
IMPROVED UNBREAKABLE PINS

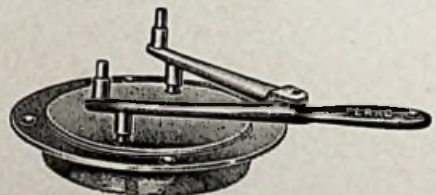


Fig. 826

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 1/2	1

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	\$ 1.50	\$ 1.80	\$ 2.95	\$.25	2 1/2
1 1/2	1.95	2.30	3.55	.30	2 3/4
2	3.00	3.50	4.50	.30	3 3/8
2 1/2	3.45	4.10	5.15	.45	4 1/2
3	3.80	4.70	5.60	.45	4 3/4
3 1/2	5.00	6.00	7.00	.55	5 1/2
4	5.85	7.20	8.35	.65	5 3/4
5	8.75	10.80	12.25	.80	7 1/4
6	11.50	13.00	15.75	1.40	8 1/4
8	30.00	34.00	40.00	2.00	10 1/4

Caps only, price is 50% of complete plate.

Pipe Deck Plates

CAST BRONZE—WITH KEY—I. P. S. THREAD



Fig. 528

Words, "water," "gas," "oil" or "fuel" marked in flange of all sizes except 3/4 inch when specified. Otherwise unmarked deck plates are supplied.

Note, markings are in flange instead of cap. This is an obvious advantage as plate is identified when cap is removed.

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	\$ 1.80	\$ 2.10	\$ 3.30	\$.25	2 3/8
1	2.05	2.40	3.75	.25	2 7/8
1 1/4	2.50	3.00	4.40	.30	3 1/8
1 1/2	2.80	3.40	4.90	.30	3 3/4
2	3.60	4.50	5.90	.45	4 1/4
2 1/2	4.30	5.25	6.80	.45	4 3/8
3	5.85	7.00	8.50	.55	5 3/8

Caps only, price is 50% of complete plate.

Safe-Cap Deck Plates

CAST BRONZE—WITH KEY—I. P. S. THREAD

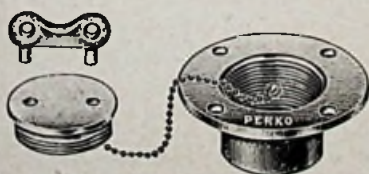


Fig. 525

Our Fig. 528 Pipe Deck Plates can be supplied with chain attached to cap per illustration.

Stock sizes, 1 1/4" and 1 1/2" add each \$.45
 All other sizes add each \$.65

Automatic Boat Drainers

BRASS TUBING—CAST BRONZE FITTINGS
 BALL TYPE—STREAMLINE

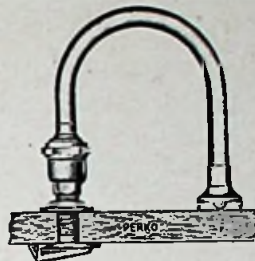


Fig. 397

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

SPARE RUBBER BALLS

Size No. 1, 1 inch diameter, per dozen \$1.50
 Size No. 2, 1 1/2 inch diameter, per dozen 3.00

Garboard Drain Plugs

CAST BRONZE—PLAIN



Fig. 714

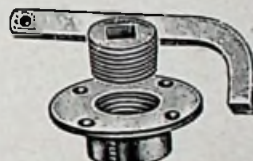


Fig. 124

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. F 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 galvanized 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 1/8 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

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

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 3/8

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

North River Rowlocks

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 643

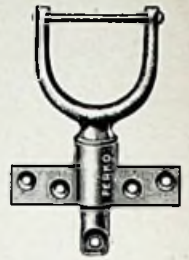


Fig. 644

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

Davis Pattern North River Rowlocks

CAST BRONZE

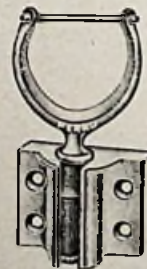


Fig. 524

The oars are pinned into the lock and may be folded down inside the boat when not in use.

No.	Plain Bronze Per Pair	Polished Bronze Per Pair	Chromium Plated Per Pair	Opening Inches	Weight Per Pair Pounds
1	\$3.75	\$6.00	\$8.75	2	2 1/4

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	3/8
1 Galv.	1.00	.85	.35	2	1
0 Pl. Bronze	1.95	1.50	.65	1 3/4	3/8
1 Pl. Bronze	2.00	1.55	.65	2	1
0 Pol. Bronze	3.30	2.30	1.20	1 3/4	3/8
1 Pol. Bronze	3.40	2.40	1.20	2	1
0 Chrome Pltd.	5.30	3.55	1.90	1 3/4	3/8
1 Chrome Pltd.	5.40	3.65	1.90	2	1

Side Plate Rowlocks

GALVANIZED MALLEABLE IRON OR BRONZE

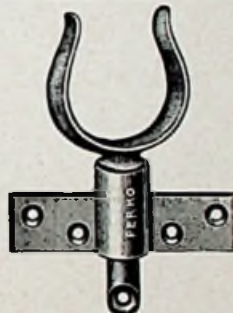


Fig. 645

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

Copper Oar and Paddle Tips



Fig. 794



Fig. 788

Made of soft sheet copper, will fit any oar and paddle.

Fig. 794 Oar Tips—per Pair\$.40

Fig. 788 Paddle Tips—Each30

Oar Leathers and Buttons

RUSSET LEATHER



Fig. 233

A high grade russet leather and button.

	Per Pair
Complete, Leathers and Buttons	\$1.35
Leathers Only—7x6 1/2 Inches	1.10
Buttons Only—1/2x13 Inches .....	.30

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	Weight Ounces
1	\$4.40	\$5.50	3 1/4	4 1/4	Up to 5/8	12
2	5.00	6.25	3 3/4	4 3/4	Up to 1	15

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 1/4	3	3/4	3 1/2
2	1/2	2 3/8	3 3/8	7/8	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

DROP FORGED BRONZE
EXTRA STRONG SHANK



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.
\$.90	\$1.40	\$1.75	1	3 1/8	3/8	7

NOTE—We can supply Fig. 238 in cast manganese bronze, plain finish, at \$.75 each, but same are not guaranteed against breakage. Forged type will be supplied unless otherwise specified.

Ring on Plate

GALVANIZED DROP FORGED STEEL



Fig. 607

No.	Galvanized Each	Size Ring Inches	Size Plate Inches	Weight Per 100 Pounds
1	\$.85	5/16 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 Inches	Width Base Inches	Size of Ring Inches	Weight Ounces
1	\$1.50	\$2.00	2 3/4	1 1/2	5/16 x 1 1/4	2 3/4
2	1.85	2.40	3 1/4	1 3/8	3/16 x 1 1/2	3 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	Weight Ounces
\$.65	\$1.25	\$1.75	5/16 x 1 1/2	3 1/2	5/8	1 1/2

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	\$.60	\$.65	\$1.25	\$1.75	5/16 x 1 1/2	4 1/8 x 3/4
2	.70				5/16 x 1 3/4	4 1/8 x 3/4

Weight No. 1, 2 1/2 ounces, No. 2, 3 1/2 ounces.

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	\$3.00	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	5½	1½	3¾x1	5½

Lifting Handle

FOR BOW OR TRANSOM
CAST BRONZE



Fig. 186

Length Overall Inches	Height Inches	Width Base Inches	Size Opening Inches	Weight Oz.
6¾	2	1¼	3¾x1½	12

Polished Bronze Each	Chromium Plated Each
\$2.25	\$2.75

New Hatch or Lifting Handle

GALV. MALL. IRON OR CAST BRONZE

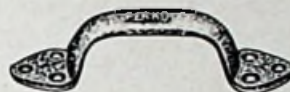


Fig. 361

A strong sturdy handle at a moderate price.

Galv. Bronze Each	Polished Bronze Each	Chromium Plated Each	Length Overall Inches	Height Overall Inches	Size Opening Inches	Weight Ounces
\$.70	\$1.75	\$2.25	6½	1½	3¼x1¼	8

Outboard Motor Transom Plates

CAST BRONZE—PLAIN



Fig. 814

Furnished complete with tanned leather inserts.

Plain Per Pair	Inside Diam. Inches	Outside Diam. Inches	Extreme Thickness Inches	Weight Per Pair Ounces
\$1.50	1¼	3	¼	6

Lifting Handles

FOR TRANSOM
CAST BRONZE

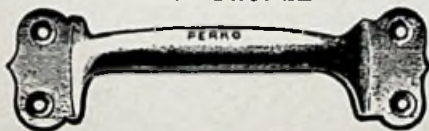


Fig. 775

No.	Polished Bronze Each	Chromium Plated Each	Length Overall Inches	Length Inside Inches	Weight Ounces
1	\$.70	\$.90	4¼	2¾	2
2	1.05	1.50	5¾	3¾	4

Aluminum Racing Fin

CAST SILICON ALUMINUM



Fig. 189

Supplied, plain, not drilled or drilled and countersunk (6 holes) as illustrated.

Polished Bronze Each	Chrom. Plated Each	Length Overall Inches	Height Overall Inches	Size Opening Inches	Weight Ounces	Undrilled Each	Drilled Each	Length Overall Inches	Depth Blade Inches	Size Flange Inches	Weight Lbs.
\$1.50	\$2.25	5	1½	3¼x¾	6	\$1.75	\$2.75	9¼	5	2¾x9¼	1

Drilled supplied unless otherwise specified.

New Improved Lifting Ring

WITH LOOSE DECK FLANGE
CAST BRONZE—FOR 3/8 INCH ROD



Fig. 412

A simple but worthwhile improvement is the loose deck flange. This eliminates all strain or pull on deck when lifting the boat.

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—FOR 3/8 INCH ROD



Fig. 415

Stock in Eye Inches	Size Flange Inches	Weight Ounces	I. D. Eye Inches
1/2	3x2 1/4	12 1/2	1 3/8

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

Letters and Numbers

CAST BRONZE
REGULAR PATTERN

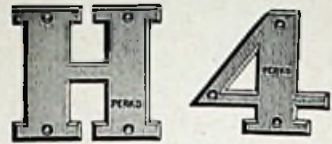


Fig. 348

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 1/4	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.

Keel Plates

FOR ABOVE LIFTING RINGS
CAST BRONZE—FOR 3/8 INCH ROD



Fig. 446

Plain Bronze Each	Size Base Inches	Weight Oz.
\$1.40	3x1 3/8	7

Sword Fish Darts

PLAIN CAST BRONZE



Fig. 805

Each	Length Inches
\$.55	5

Weight per 100 Pieces 31 Pounds

Dart Shank

IRON SHANK—CAST BRONZE SOCKET

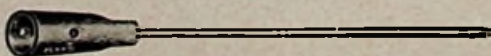


Fig. 655

Length overall, 24 inches; Weight, 1 1/4 pounds.
Each \$2.25

Sail Makers Palms

HIDE MOUNTED



Fig. 411

No.		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	\$.80	1	7 1/4	8
1	.90	1 1/4	8 1/4	12
2	1.25	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	\$1.90	\$3.50	1	7 3/8	9
4	1.25	2.25	3.85	1 1/4	8 1/4	12
5	1.50	3.00	4.50	1 1/2	9 3/8	18
6	2.50			2	9 1/2	28

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 5/8 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.

New Improved Dock Roller

FOR SMALL BOATS

**HARD WOOD ROLLER—CAST BRONZE PARTS
ROLLER MAHOGANY STAINED AND VARNISHED**

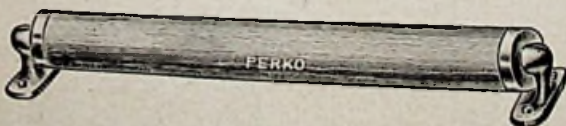


Fig. 475

Each	Diameter Roller Inches	Length Roller Inches	Height Overall Inches	Weight Pounds
\$15.50	2 3/4	24	3 1/2	5

"Holdall" Spring Clamps

**ALL BRASS—POLISHED OR CHROMIUM PLATED
COMPLETE WITH SCREWS**

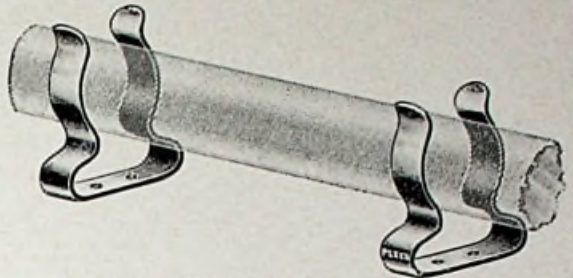


Fig. 502

A clamp having many uses aboard boats of every size and type. Also serves around the home, club, store or factory.

Excellent for stowing fishing rods, boat hook, oars, swab, broom, flashlight, flagstaff, pump, etc., etc.

Produced in two general sizes but both can be adjusted to clamp tightly objects of various sizes.

No.	Polished Brass Per Pair	Chromium Plated Per Pair	Adjustability Inches	Length From Wall Inches	Width of Metal Inches	Weight Per Pair Ounces
1	\$1.25	\$1.75	5/8 to 1 1/4	1 1/2	1 1/2	2
2	1.50	2.20	1 to 1 3/4	2 1/4	5/8	2 1/2

Packed—1 Pair Per Box—25 Boxes Per Package

Boat Hook Holders

SPRING BRASS

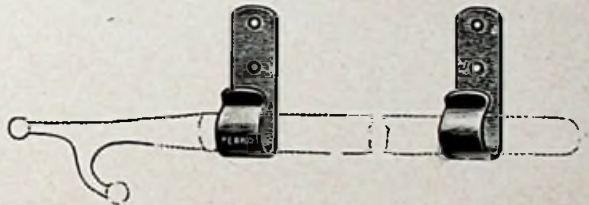


Fig. 490

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

Ring Buoy Holders

CAST BRONZE



Fig. 1017

Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Width Mounting Plate Inches	Height Overall Inches	Weight Pounds
\$1.00	\$2.00	\$2.50	3	4 1/2	1 1/2

Windshield Brackets

FOR RUNABOUTS & OUTBOARD MOTOR BOATS
CAST BRONZE OR DIE CAST ZAMAC METAL

All grooved for 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

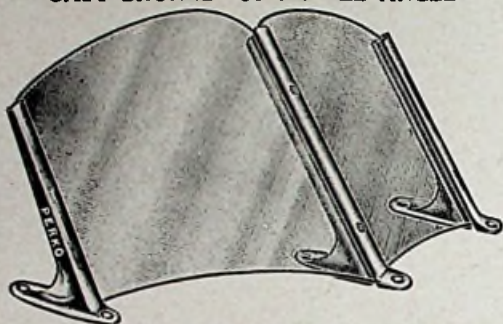


Fig. 665

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	\$21.00	8 3/4	7	6	4 1/2

ZAMAC METAL (Zinc and Aluminum)

50 DEGREE ANGLE

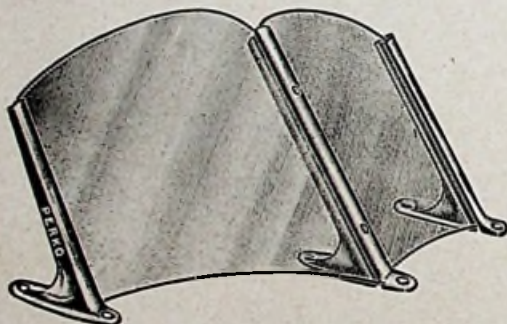


Fig. 750

Chromium Plated Per Set	Height C. nte. Bracket Inches	Height End Brackets Each	Length Center Base Inches	Weight Per Set Pounds
\$12.50	8 3/4	7	6	4

CAST BRONZE—60 DEGREE ANGLE

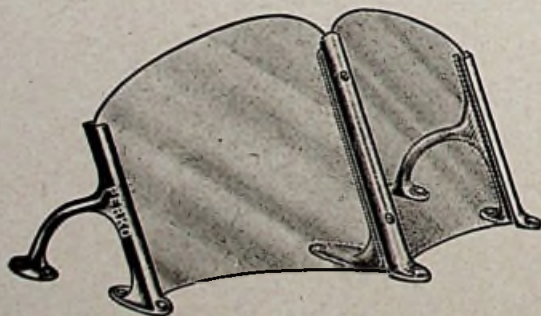


Fig. 930

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	\$21.00	9 1/4	6 3/8	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

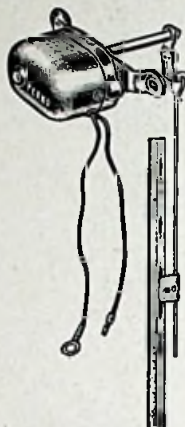


Fig. 395

Inside mounting, for swing out windshields. Blade is adjustable to various lengths.

Furnished with drilling template, rubber insulating washers, connecting wires and switch.

Extreme Width Inches	Length Blade Inches	Length Shaft Inches	Weight Pounds
6	11	2 1/2	1 1/4
6 Volt Each		12 Volt Each	
\$14.00		\$16.00	

Supplied for outside mounting to order. Prices same as above.

SPARE PARTS

Each	Each
Arm Assembly \$1.20	Shaft Assembly \$1.50
Blade ..... .65	Reduction Gear Assy. 1.20
Armature Assembly 5.50	Small Spur Gear Assy. 1.20
Coil Assembly 3.25	Gear Rack 1.20
Brush Assembly 1.20	Large Spur Gear Assy. 1.50

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	3/8	2 3/8	8

*Length with 12 inch blade.

Note—If 10 inch blade is preferred, please specify.

Spare Arms	each	\$1.00
Spare Blades	each	.50

Windshield Adjusters

CAST BRONZE

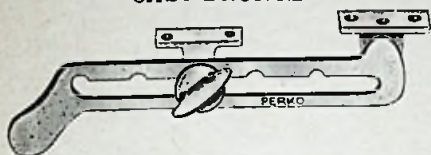


Fig. 82

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 RUBBER STEP PADS
BLACK OR WHITE
CAST BRONZE FRAME—CHROMIUM PLATED



Fig. 1043

No.	Black Complete Each	White Complete Each	Frames Only Each	Extreme Dimensions Inches	Weight Pounds
1	\$5.50	\$5.75	\$4.25	8½ x 3½	¾
2	7.00	7.25	5.50	11½ x 5½	1¾

Black supplied unless otherwise specified.

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 foot20

Fig. 667—Supplied only in 11 ft. lengths.

Fig. 668—Supplied in lengths of 20 feet or longer.

Rubber Pads Only

BLACK OR WHITE



Fig. 1050

No.	Black Each	White Each	Length Inches	Width Inches	Thickness Inches	Weight Ounces
1	\$1.25	\$1.50	8	2½	¼	3¼
2	1.60	1.85	11	5	¼	8¼

Black supplied unless otherwise specified.

Utility Rubber Step Plates

HEAVY CORRUGATED BLACK RUBBER WITH
BRASS, CHROMIUM PLATED FRAME
WITH OR WITHOUT NAME OF BOAT



Fig. 1039—Name Inlaid



Fig. 1044—Plain

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.

No.	Fig. 1044 Complete Each	Fig. 1039 Complete Each	Extreme Dimensions Inches	Thickness Inches	Weight Pounds
3	\$3.40	\$ 4.00	8½ x 3½	¼	½
4	4.00	5.60	10 x 4	¼	¾
5	4.60	6.20	13 x 5	¼	1
6	5.20	6.80	17 x 6	¼	1½
7	5.80	7.40	18 x 8	¼	2
8	6.80	8.80	20 x 9	¼	2½
9	8.00	10.00	24 x 9	¼	3

Note—Fig. 1039 has name of white rubber inlaid in black pad. Each letter requires 2 inches of space, i.e. size No. 4 can accommodate a word of 5 letters or less.

Rope Swimming Ladders

WITH ROUND WOOD RUNGS



Of $\frac{5}{8}$ 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.

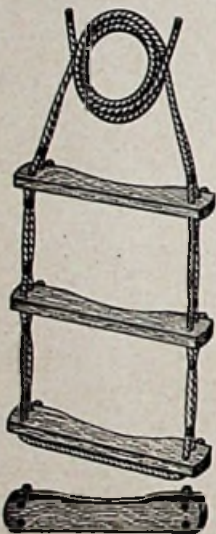
Ladders	Each
2 rung	\$6.00
3 rung	7.25
4 rung	9.00
5 rung	10.50
6 rung	12.50

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 $\frac{5}{8}$ inch best grade manila rope with ash steps, varnished.

Furnished complete with lanyards 6 feet long for making fast on board.

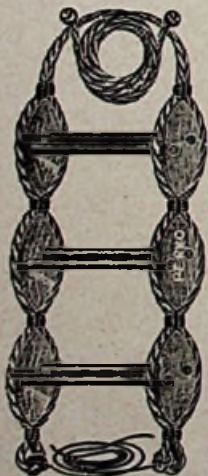
Ladders	Each
2 step	\$9.75
3 step	12.00
4 step	14.50
5 step	17.00
6 step	20.00

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 $\frac{5}{8}$ 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	Complete			Spare Sockets Only		
				Plain Bronze Per Set	Polished Bronze Per Set	Chromium Plated Per Set	Plain Bronze Per Pair	Polished Bronze Per Pair	Chromium Plated Per Pair
$1\frac{1}{4}$	1	$1\frac{3}{4}$	12	\$2.50	\$4.00	\$6.00	\$1.75	\$2.75	\$4.25

A set consists of four pieces illustrated.

Ladder Hooks

CAST BRONZE

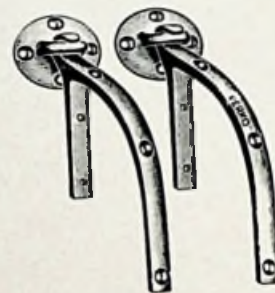


Fig. 670

Extreme Length Inches	Length Brace Inches	Size Plate Inches	Weight Per Set Pounds	Complete		Plates Only	
				Polished Bronze Per Set	Chromium Plated Per Set	Polished Bronze Per Pair	Chromium Plated Per Pair
12	4	$2\frac{1}{2}$ x $3\frac{1}{4}$	4	\$11.50	\$15.50	\$4.25	\$5.25

Ladder Hooks for Folding Boarding Ladder

CAST BRONZE

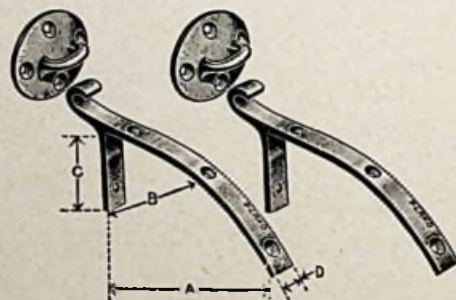


Fig. 717

Used on our Fig. 558 folding boarding ladders. Designed for wide woodwork.

A Inches	B Inches	C Inches	D Inches	Length Curved Arm Inches	Size Plate Inches	Weight Per Set Pounds	Complete		Plates Only	
							Polished Bronze Per Set	Chromium Plated Per Set	Polished Bronze Per Pair	Chromium Plated Per Pair
$6\frac{1}{8}$	4	$2\frac{1}{2}$	$\frac{7}{8}$	7	$2\frac{1}{2}$ x $3\frac{1}{4}$	$2\frac{1}{2}$	\$11.50	\$15.50	\$4.25	\$5.25



Swivel Fishing Chair

MAHOGANY WITH CAST BRONZE FITTINGS
 DEMOUNTABLE—WITH COVER FOR DECK PLATE

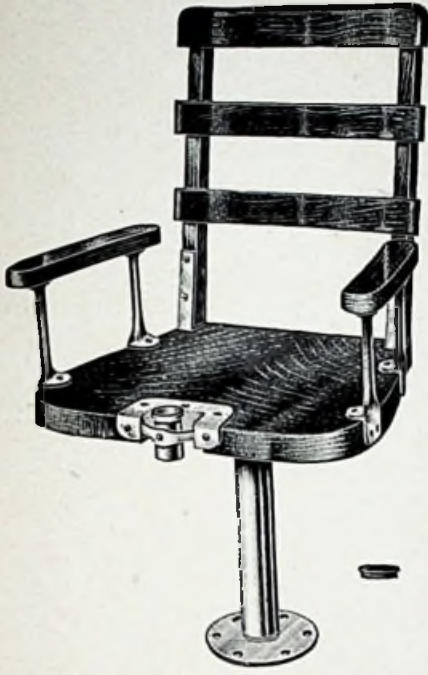


Fig. 559

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

SPARE PARTS

No.	Description	No. Per Chair	Polished Bronze Each	Chromium Plated Each
1	Rod Socket Complete	1	\$10.00	\$12.50
2	Seat Flange, Plain	1	8.00	
3	Pedestal	1	10.00	12.50
4	Deck Flange Complete	1	10.00	12.50
5	Arm Supports	4	3.00	3.80
6	Back Rest Sockets	2	3.00	4.00
7	Back Rest Brace	1	10.50	13.00

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	12 1/2	8 1/4	5 1/4
2	14.75	14	14 1/2	11 1/4	8

Folding Boarding Ladders

MAHOGANY WITH CAST BRONZE FITTINGS

Made of high quality mahogany, varnished. Supplied complete with plates for hanging and polished bronze or chromium plated fittings.

CLOSED 2 STEPS—OPEN 4 STEPS

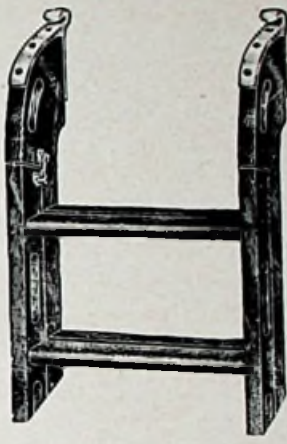


Fig. 557

	With Polished Bronze Fittings Each	With Chromium Plated Fittings Each	Overall Length Open Inches	Overall Length Closed Inches	Overall Width Inches	Weight Pounds
	\$39.00	\$42.50	36	21 1/2	15	9 1/2

CLOSED 3 STEPS—OPEN 6 STEPS

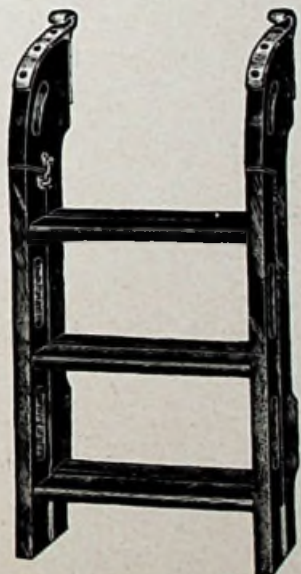


Fig. 558

	With Polished Bronze Fittings Each	With Chromium Plated Fittings Each	Overall Length Open Inches	Overall Length Closed Inches	Overall Width Inches	Weight Pounds
	\$41.50	\$45.00	51	30	15	12 1/2

SPARE PARTS

Hooks and Hanging Plates, See Fig. 717, Page 124
 Hinges, See Fig. 556, Page 137
 Cabin Door Hooks, See Fig. 956, Page 136

Improved Outrigger Pole Sockets

HEAVY BRASS TUBING—CAST BRONZE BRACKETS—DETACHABLE



Fig. 460

Note the detachable brackets permitting stowage of the socket when not in use.

No.	Polished Brass Each	Chrome Plated Each	Inside Diam. Inches	Extreme Length Inches	Size Plate Inches	Weight Pounds
1	\$12.50	\$15.00	1 7/8	9 1/2	2 1/2 x 2	2 1/2
2	16.50	19.00	2 3/8	11 3/4	2 1/2 x 2	4

Outrigger Pole Sockets

HEAVY BRASS TUBING—CAST BRONZE BRACKETS

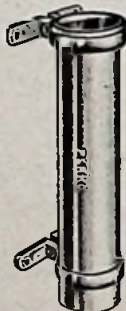


Fig. 1100

No.	Pol. Brass Each	Chrom. Plated Each	Inside Diam. Inches	Extreme Length Inches	Width Bracket Inches	Wt. Lbs.
1	\$10.50	\$12.50	1 7/8	9 1/2	3 3/8	1 3/4
2	13.00	15.00	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.

Diameter of base is 3 inches. Weight of each is 3 lbs.

Without Adjusting Eyes		With Adjusting Eyes		Length Socket Inches	Inside Diam. Socket Inches
Plain Each	Chrome Plated Each	Plain Each	Chrome Plated Each		
\$11.00	\$16.00	\$15.00	\$20.00	10	1 7/8

Flush Flag Pole Socket

GALVANIZED CAST IRON—CAST BRONZE



Fig. 218



Fig. 219

Inside Diam. Inches	Galv. Each	Pol. Bronze Each	Chrom. Plated Each	Diam. Flange Inches	Depth Socket Inches	Wt. Ozs.
3/4	\$.50	\$1.00	\$1.50	2	1 1/2	4 1/2
1	.55	1.15	1.75	2 3/8	1 3/4	6
1 1/4	.75	1.50	2.10	2 3/8	2	10
1 1/2	1.20	2.10	2.75	3 1/8	2 3/8	16

Upright Flag Pole Socket

ROUND BASE
CAST BRONZE



Fig. 220



Fig. 221

Inside Diam. Inches	Polished Bronze Each	Chromium Plated Each	Diam. Base Inches	Height Inches	Weight Ounces
3/4	\$1.40	\$2.00	2 1/8	1 3/4	7
1	2.00	2.60	2 1/2	2	8 1/2
1 1/4	2.40	3.00	2 3/4	2 1/8	11
1 1/2	3.25	4.00	3	3	16

Upright Flag Pole Socket

GALVANIZED CAST IRON
SQUARE BASE



Fig. 570



Fig. 571

Inside Diam. Inches	Galv. Each	Height Inches	Size Base Inches	Weight Ounces
3/4	\$.40	1 3/4	2 x 2	5 1/2
1	.60	2 1/4	2 1/4 x 2 1/4	11
1 1/4	.80	2 3/4	2 3/4 x 2 3/4	13
1 1/2	1.50	3 1/2	3 x 4	24

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 3/8	3 5/8	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

New Gas Tank Caps

WITH DECK FLANGE AND SAFETY CHAIN
CAST BRONZE

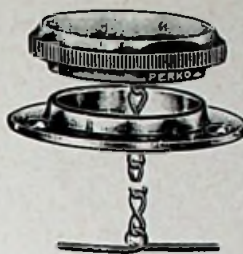


Fig. 520

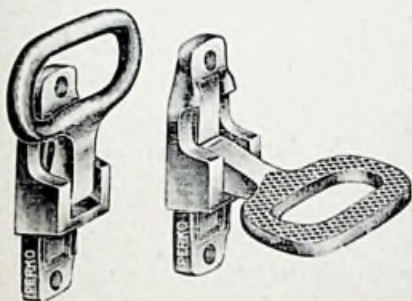
Unusually attractive, will enhance the appearance of any boat, particularly a well finished runabout. Both parts are as shallow as practicable to bring the cap close to the deck.

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

Folding Step

CAST BRONZE



FOLDED

OPEN

Fig. 344

For mounting on hull or transom, folds up out of way when not in use. Spring holds step in position.

Polished Bronze Each	Chromium Plated Each	Size Step Inches	Size Base Inches	Extends Folded Inches	Weight Pounds
\$4.00	\$5.00	4x2	4 1/4 x 1 3/4	7/8	1 1/8

Swinging Ash Tray in Gimbals

ALL BRASS—CHROMIUM PLATED
WEIGHTED BASE—DETACHABLE



Fig. 698

Always upright regardless of boats motion. Complete with cigarette clip.

Each	Size Mounting Plate Inches	Diam. Tray Inches	Height Tray Inches	Weight Pounds
\$5.50	1 3/4 x 1 1/4	2 3/4	3	1 1/8

Gas Tank Vents

CAST BRONZE—PLAIN
WITH FLANGED ELBOW

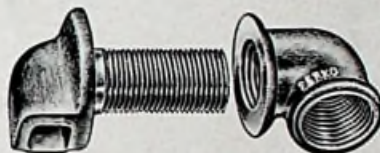


Fig. 503

A fitting designed for leading the gas tank vent out-board per recommendations of insurance underwriters.

No.	Each	Pipe Size Inches	For Wood Inches	For Tanks Up To	Weight Ounces
1	\$2.25	3/8	1 1/8	100 Gals	8
2	2.25	1/2	1 1/8	100 Gals	8

Swinging Glass Holder in Gimbals

ALL BRASS—CHROMIUM PLATED
DETACHABLE BRACKET

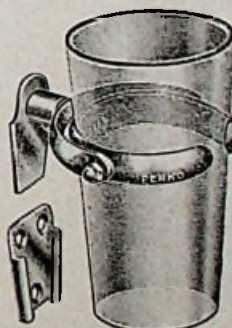


Fig. 699

Glass is always upright regardless of boats motion. Will accommodate an average tumbler or highball glass.

Each	Size Mounting Plate Inches	Inside Diam. Ring Inches	Weight Ounces
\$3.00	1 3/4 x 1 1/4	2 1/2	6

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.

Polished Bronze Each	Chromium Plated Each	Height Overall Inches	Dimensions Base Inches	Weight Each Ounces
\$3.00	\$4.25	2 1/4	3x2	10

Please specify whether center or end required.

Brass tubing for above, polished, \$.75 for each 6 inches. Chromium plated, \$1.00 for each 6 inches or fraction thereof. Gauge of tubing is 20 B. & S.

Grab Rails

CAST BRONZE POSTS—BRASS TUBING

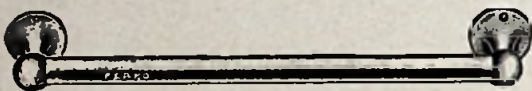


Fig. 379

Length Between Posts Inches	Diameter of Tubing			
	1 Inch		1 1/4 Inch	
	Polished Bronze Each	Chromium Plated Each	Polished Bronze Each	Chromium Plated Each
6	\$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	3/8
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	5/8" Rod
1 1/2	.60	1.25	2.25	2	1/4" Pipe
2	.75	1.50	2.50	2 1/2	5/8" Rod
2 1/2	.75	1.50	2.50	2 1/2	1/4" Pipe
3	.90	1.70	2.75	3	5/8" 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	\$2.00	\$2.75	1	1 3/4	3 1/2 x 3/8	5
2	2.75	3.75	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

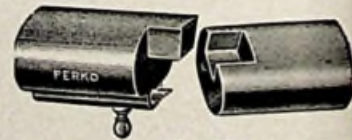


Fig. 123

Lock has spring latch on bottom.

Fig. 122

No.	Polished Bronze Each	Chromium Plated Each	Size Rail Inches	Length Inches	Weight Pounds
1	\$7.75	\$9.00	1 1/2 x 2 1/2	5	1 1/8
2	7.75	9.00	1 3/8 x 3	3 5/8	1 3/4

Fig. 123

No.	Polished Bronze Per Set	Chromium Plated Per Set	Size Rail Inches	Length Inches	Weight Pounds
1	\$8.25	\$9.50	1 1/2 x 2 1/2	5	1 1/8
2	8.25	9.50	1 3/8 x 3	3 5/8	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 7/8	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.

Fender Moulding

18-8 STAINLESS STEEL, .045" THICK
POLISHED

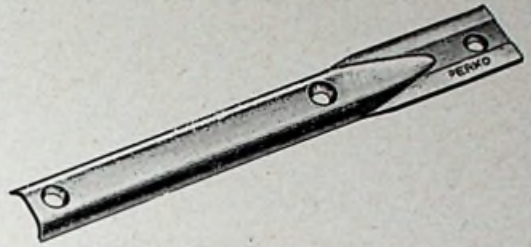


Fig. 110

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	3/8	3/4	3

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 7/8	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.

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 \$.30

Solid Brass Rings

POLISHED

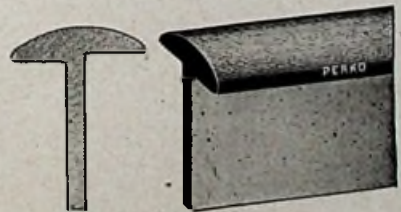


Fig. 417

Inside Diam. Inches	Thickness Inches	Per Dozen	Inside Diam. Inches	Thickness Inches	Per Dozen
1/2	5/32	\$1.00	1 1/2	3/32	\$3.30
3/8	5/32	1.10	1 3/4	3/32	4.50
3/4	5/32	1.30	2	1/4	5.30
7/8	5/32	1.60	2 1/2	5/32	8.25
1	5/32	1.95	3	5/16	11.00
1 1/4	3/16	2.80			

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 1/2	9

Supplied only in standard lengths of 12 feet.

Curtain Fasteners

WROUGHT BRASS



Fastener
Fig. 995



Screw Stud
Fig. 998



Eyelet
Fig. 996



Washer
Fig. 997

Made of stamped brass, for single and double curtains. Screws on single and double studs are 1/2" No. 7.

Complete Sets,	Brass Finish		Chromium Plated	
	Single Per 100	Double Per 100	Single Per 100	Double Per 100
Figs. 995-996-997	\$17.00	\$21.50	\$23.50	\$31.00
Figs. 998-996-997	20.00	25.00	27.50	35.50
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
Fig. 998 Only	17.50	19.50	21.50	23.50

Note—Double fasteners when ordered complete are supplied with two eyelets and two washers for each fastener.

"Lift The Dot" Fasteners

BRASS



Single Stud
Fig. 114



Double Stud
Fig. 115



Clinch Plate
Fig. 118



Single Socket
Fig. 116



Double Socket
Fig. 117



Clinch Stud
Single Fig. 60
Double Fig. 61



Clinch Washer
Fig. 62

Above cuts are all full size.

Screws on single and double studs are 1/2" No. 8.

Hand Punch

FOR ABOVE CURTAIN FASTENERS
CAST IRON WITH STEEL CUTTERS



Fig. 284 Each \$5.00

Hand Screw Driver

FOR "LIFT THE DOT" STUDS
STEEL WITH WOOD HANDLE



Fig. 290 Each \$2.30

Complete Sets,	Brass Finish		Chromium Plated	
	Single Per 100	Double Per 100	Single Per 100	Double Per 100
Figs. 60-62-116-118	\$11.50		\$19.75	
Figs. 61-62-117-118		\$19.25		\$32.00
Figs. 114-116-118	10.25		16.50	
Figs. 115-117-118		18.00		28.50
Fig. 60 Only	4.15		6.00	
Fig. 61 Only		4.15		6.00
Fig. 62 Only .....	.80	.80	2.60	2.60
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	.75	2.25	2.25

Note—Double fasteners, when ordered complete are supplied with two double sockets and two clinch plates for each stud.



"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.

	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

Hand Set Tool

FOR ABOVE BUTTONS AND EYELETS
STEEL



Fig. 905 Each \$1.50

Hand Punch

FOR "LIFT THE DOT" FASTENERS
CAST IRON WITH STEEL CUTTERS



Fig. 285 Each \$3.00

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	5/8
1	1.30	3/8	6	4.30	3/4
2	1.50	1/2	7	4.60	7/8
3	1.50	5/8	8	4.95	1 1/8
4	2.00	1/2			

Senior Grommet Dies

FORGED STEEL

Style B for inserting Spur Grommets
Style C for inserting Washer and Teeth Grommets



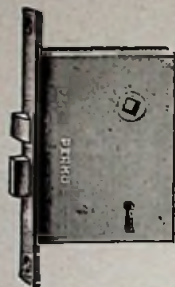
Fig. 902

Size No.	Style B Each	Style C Each	Weight Each Lbs.
0	\$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 3/4
8	12.25		5

Use a wooden mallet with above dies.

Mortise Locks

CAST BRONZE



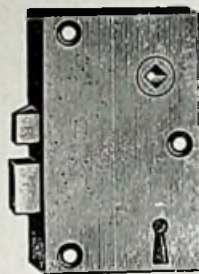
Cast bronze case with reversible latch bolt. Furnished with polished striking plate and one brass bit key.

Fig. 944

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 1/4 x 1/2	4 1/8 x 3/4	1 1/2	5/16
2	7.25	11.00	3 1/2 x 3 x 3/8	5 x 3/4	2 3/16	5/16

Rim Locks

CAST BRONZE



All bronze, with reversible latch bolt for right and left hand doors.

Furnished with polished bronze nosings and one brass bit key.

Fig. 1045

No.	Pol. Bronze Each	Chrome Plated Each	Size Case Inches	Spindle Inches	Backset Inches
1	\$7.25	\$10.00	2 1/2 x 2 x 1/2	5/8	1 1/4
2	8.00	11.00	3 3/4 x 2 1/2 x 3/8	5/8	1 1/2

Mortise Lock Sets

CAST BRONZE

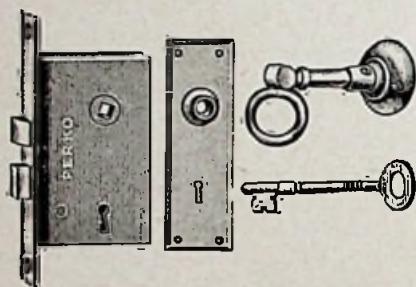


Fig. 945

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	\$13.00
2, Price Per Set	11.75	15.25

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	\$14.00
Size No. 2, Price Per Set	12.50	16.00

For Set No.	Combination Escutcheon Inches	Diameter Round Knob Inches	Shield Escutcheon Inches
1	3 7/8 x 1 5/16	1 3/4	1 1/2
2	6 x 1 1/2	1 3/4	1 1/2

All of the above sets can be furnished with oval knobs if desired—Price on application.

Extra keys for above locks furnished to order.

Rim Lock Sets

CAST BRONZE

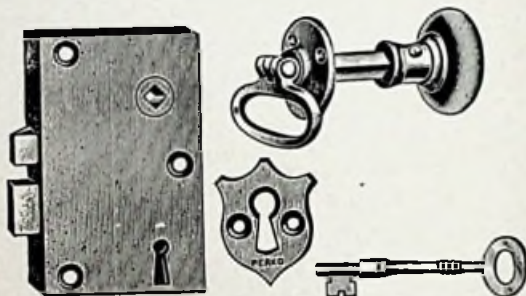


Fig. 1046

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

Size No. 1, Price Per Set	\$12.00	\$15.25
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 1/4 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.



Mortise Lock Sets

CAST BRONZE
WITH MODERN DESIGN LEVER HANDLE

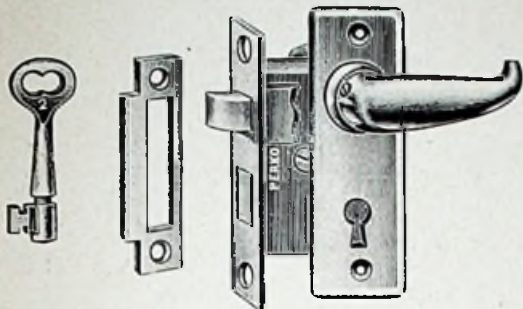


Fig. 946

The following shows mortise lock Fig. 944 numbers 1 and 2 made up in various sets.

SET A

With Combination Escutcheons, Round Knob and Lever Handle

	Polished Bronze	Chrome Plated
Size No. 1, Per Set	\$11.25	\$14.50
Size No. 2, Per Set	13.00	16.50

SET B

With Combination Escutcheons, and Two Lever Handles

Size No. 1, Per Set	\$11.75	\$15.00
Size No. 2, Per Set	13.50	17.00

SET C

With Shield Escutcheons, Round Knob and Lever Handle

Size No. 1, Per Set	\$10.75	\$14.00
Size No. 2, Per Set	12.25	15.75

SET D

With Shield Escutcheons, and Two Lever Handles

Size No. 1, Per Set	\$11.25	\$14.50
Size No. 2, Per Set	12.75	16.25

Set No.	Combination Escutcheon Inches	Diameter Round Knob Inches	Shield Escutcheon Inches	Length Lever Handle Inches
1	3 7/8 x 1 7/8	1 3/4	1 1/2	2 1/2
2	6 x 1 1/2	1 3/4	1 1/2	2 1/2

Rim Lock Sets

CAST BRONZE
WITH MODERN DESIGN LEVER HANDLE

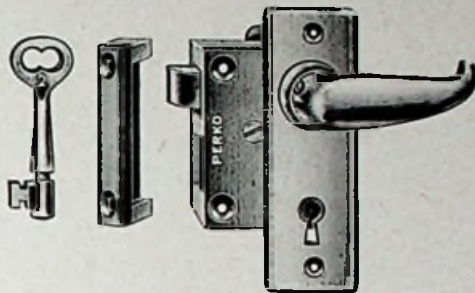


Fig. 1061

The following shows rim lock Fig. 1045 numbers 1 and 2 made up in various sets.

SET A

With Combination Escutcheons, Round Knob and Lever Handle

	Polished Bronze	Chrome Plated
Size No. 1, Per Set	\$12.50	\$15.75
Size No. 2, Per Set	13.75	17.00

SET B

With Combination Escutcheons, and Two Lever Handles

Size No. 1, Per Set	\$13.00	\$16.25
Size No. 2, Per Set	14.25	17.50

SET C

With Shield Escutcheons, Round Knob and Lever Handle

Size No. 1, Per Set	\$12.25	\$15.50
Size No. 2, Per Set	13.25	16.75

SET D

With Shield Escutcheons and Two Lever Handles

Size No. 1, Per Set	\$12.75	\$16.00
Size No. 2, Per Set	13.75	17.25

Set No.	Combination Escutcheon Inches	Diameter Round Knob Inches	Shield Escutcheon Inches	Length Lever Handle Inches
1	4 1/4 x 1 1/8	1 3/4	1 1/2	2 1/2
2	6 x 1 1/2	1 3/4	1 1/2	2 1/2

Tubular Lock Sets

ALL BRASS—FOR SMALL CABIN DOORS
POLISHED OR CHROMIUM PLATED

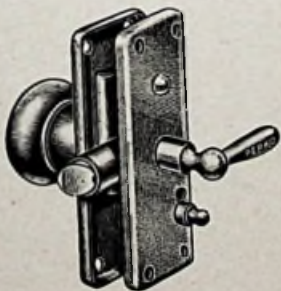


Fig. 567

Polished Brass Each	Chromium Plated Each	For Thickness Doors Inches	Size Escutcheon Inches	Size Knob Inches	Back-set Inches
\$3.80	\$5.80	7/8 to 1 3/8	4 3/8 x 1 3/8	1 3/4	1 3/8

Anti-Rattle Door Fastener

CAST BRASS

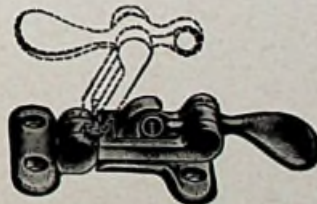


Fig. 1108

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

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	1/4

Round Knob and Drop Handle

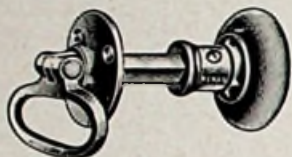


Fig. 1049

Diam. Knob Inches	Polished Brass Per Set	Chromium Plated Per Set	Size Spindle Inches
1 3/4	\$3.85	\$4.85	5/16

Knobs for Rim Locks have One Rosette
Knobs for Mortise Locks have Two Rosettes

Drawer Knobs

BRASS—FOR DRAWERS UP TO 1 1/8" THICK



Fig. 925

No.	Polished Brass Per Dozen	Chromium Plated Per Dozen	Diameter Inches	Weight Per Dozen Ounces
1	\$4.56	\$6.48	1	12
2	7.56	9.60	1 1/4	18

Door Buttons

CAST BRASS BUTTON—WROUGHT BRASS PLATE



Fig. 948

No.	Diam. Inches	Polished Brass Complete Per Dozen		Chromium Plated Complete Per Dozen	
		Without Plate Per Dz.	With Plate Per Dz.	Without Plate Per Dz.	With 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

Cupboard Catches

CAST BRASS

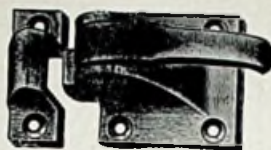


Fig. 1102

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

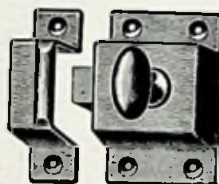


Fig. 1105

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

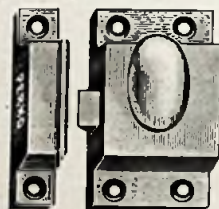


Fig. 949

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

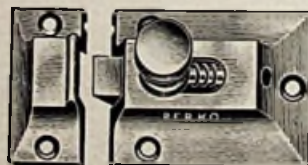


Fig. 950

Polished Brass Each	Chromium Plated Each	Without Strike Inches
\$1.15	\$1.50	1 1/2 x 1
1.15	1.50	1 3/8 x 1 1/4
1.30	1.80	1 3/8 x 2



Flush Ring Catch CAST BRASS

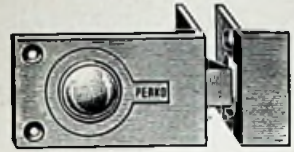


Fig. 1051

Size
Inches
1 5/8 x 1 1/4

Polished Brass Each	Chromium Plated Each
\$1.25	\$1.75

Weight
Ounces
1 1/2

Flush Ring Pulls CAST BRASS



Fig. 841

No.	Polished Brass Each	Chromium Plated Each	Size Plate Inches	Weight Ounces
1	\$.85	\$1.10	1 1/4 x 1 1/2	1
2	.95	1.20	1 1/2 x 2	1 1/2
3	1.10	1.60	1 3/4 x 2 1/2	2 3/4
4	1.60	2.15	2 1/4 x 2 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



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	Leth. 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	1.40	1.80	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

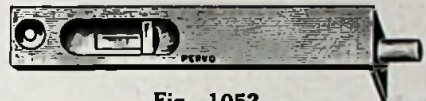


Fig. 1052

No.	Each	Size Inches	Weight Ounces
1	\$1.60	5/8 x 2 1/2	1 1/2
2	1.60	5/8 x 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 3/8 x 1 1/8
2	1.60	1.95	3 3/8 x 1 3/8
3	2.25	2.75	4 3/4 x 1 5/8

Square Neck Bolts CAST BRASS

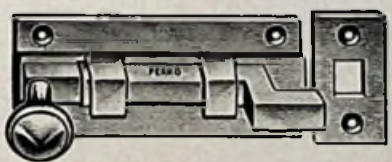


Fig. 1054

No.	Polished Brass Each	Chromium Plated Each	Size Inches
1	\$1.55	\$2.35	3 x 1 1/4
2	1.85	2.60	4 x 1 3/8

Window Bolts CAST BRONZE SPRING TYPE

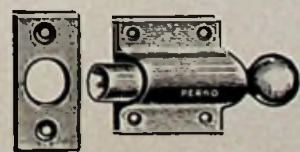


Fig. 1055

No.	Polished Bronze Each	Chromium Plated Each
1	\$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	1/4
6	1.40	2.00	3.75	4.25	5/8
8	2.00	2.50	4.25	4.75	7/8
10	2.40	3.60	4.80	6.00	1 1/8
12	3.60	4.80	6.60	8.00	1 3/8

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	\$1.90	\$3.25	\$4.00	1/2
6	1.75	2.50	4.50	5.50	3/8
8	3.35	4.50	6.60	7.75	1 1/2
10	4.80	5.50	9.00	10.50	2
12	6.35	11.50	14.50	16.00	2 5/8

Cuddy Door Hinges

CAST BRASS

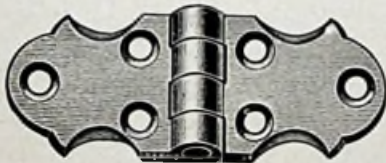


Fig. 951

Length Opened Inches	Plain Brass Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
3	\$1.10	\$1.60	\$2.15
3 1/2	1.35	1.85	2.55
4	1.60	2.10	2.80
5	2.10	2.60	3.50

Ladder Hinges

CAST BRONZE

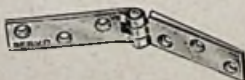


Fig. 556

Polished Bronze Per Pair	Chromium Plated Per Pair	Length Open Inches	Width Inches	Weight Per Pair Ounces
\$6.50	\$7.50	5 3/4	3/4	9

Fast Pin Butt Hinges

CAST BRASS—BRASS PINS

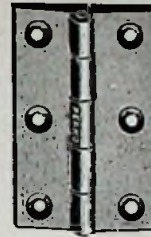


Fig. 952

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 1/2 x 1 1/4	\$9.60	\$21.25	2 1/2 x 2 1/2	\$24.00	\$48.00
1 1/2 x 1 1/2	10.20	22.00	3 x 2	27.00	53.00
2 x 1 1/4	12.00	23.75	3 x 2 1/2	30.75	57.50
2 x 1 1/2	13.00	29.00	3 x 3	33.00	60.00
2 x 1 3/4	14.90	34.00	3 1/2 x 3	43.00	80.00
2 x 2	16.00	36.00	3 1/2 x 3 1/2	47.80	89.00
2 1/2 x 1 3/4	21.00	42.00	4 x 3	56.50	102.00
2 1/2 x 2	22.00	44.00	4 x 4	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 1/2 x 1 1/2	\$ 1.85	\$ 2.50	3 x 2 1/2	\$ 4.40	\$ 6.00
2 x 1 1/2	2.30	3.10	3 x 3	4.60	6.20
2 x 2	2.80	3.75	3 1/2 x 3	5.50	7.30
2 1/2 x 2	3.25	4.50	3 1/2 x 3 1/2	6.60	8.80
2 1/2 x 2 1/2	3.50	4.95	4 x 3 1/2	8.50	11.50
3 x 2	4.10	5.50	4 x 4	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 1/4
3	5.25	7.00	8.50	12 1/4
4	6.00	8.00	10.00	13
5	7.50	10.50	13.00	16 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	1/2	.035
2	.40	3 1/8	1 1/8	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 7/8	3
2	1.10	3	2 3/8	5

Spring Hinges

CAST BRONZE

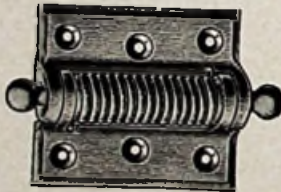


Fig. 1107

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 3/4

Illustration shows one half pair.

Cabinet Hinges

BRASS—POLISHED OR CHROMIUM PLATED
FLUSH OR OFFSET

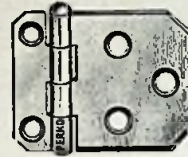


Fig. 772

Packed one dozen pairs per box, complete with screws. Offset is 3/8 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

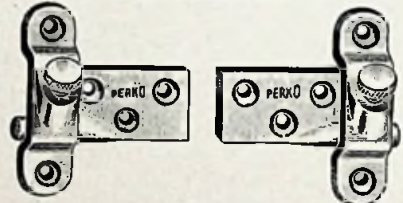


Fig. 418

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 1/2	6	7/8
2	1 3/4 x 7/8	3 1/4 x 1 1/2	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

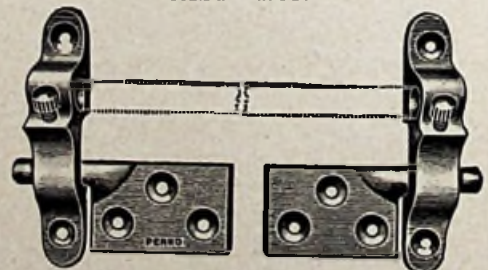


Fig. 960

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

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

Hatch Adjusters

CAST BRONZE

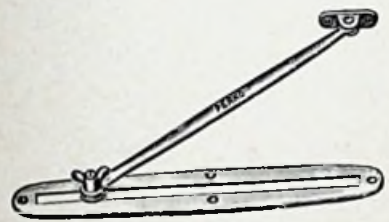


Fig. 797

Polished Bronze Each	Chrom. Plated Each	Length Arm Inches	Length Adjust-ment Inches	Length Plate Inches	Weight Ounces
\$4.20	\$5.50	10	9 1/2	10 3/4	13

Sash Anti Rattlers

CAST BRONZE

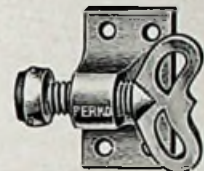


Fig. 839

Furnished with leather tip to prevent defacing of woodwork. Size of base 1 5/8" x 1".

Polished Bronze, Each	\$1.60
Chromium Plated, Each	2.20

Casement Adjuster

ALL BRASS—HEAVY PATTERN

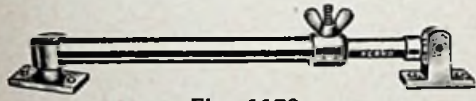


Fig. 1179

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

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

Skylight Quadrants

CAST BRONZE



Fig. 449

No.	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Overall Inches	Length Adjust-ment 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

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	1/4 x 1 1/4	.40	.75	3/4

Drawer Pulls

CAST BRASS

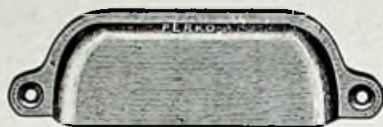


Fig. 958

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

Cupboard Door Holder

BRASS PLATED

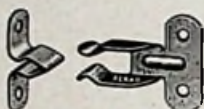


Fig. 1178

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

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

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 3/8	\$.45	\$.60	\$.85	1

Friction Catches

ALL BRASS—ADJUSTABLE TENSION

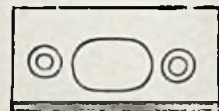


Fig. 178

Above cuts are full size. Supplied complete with either round or oblong strike. Please specify.

Per Gross — \$18.50

Door 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



Paint Scraper Set

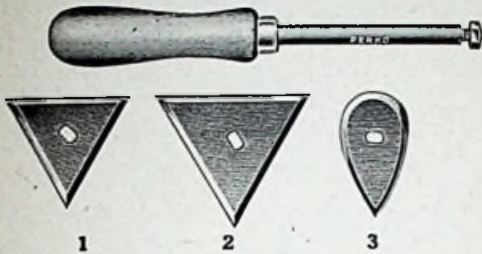


Fig. 1015

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—2 3/8 x 2 3/8 inches.

No. 2 Blade, Triangular—3 x 3 inches.

No. 3 Blade, Oval—2 1/2 x 1 1/4 inches.

Length Handle—8 1/2 inches.

Paint Scrapers



Triangular
Fig. 626

Oval
Fig. 918

Fig.	Complete Per Doz.	Size Blade Inches	Length Inches	Weight Per Doz. in Lbs.
626	\$12.00	3 x 3	9	6
918	12.00	2 1/2 x 1 1/4	9	5 1/2

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	4 1/2 x 1 1/8	17

*Handle complete with socket and bolt.

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	1 1/4	3/16	1 3/4	17

Double End Scrapers

FINE GRADE TOOL STEEL
HEAT TREATED



Fig. 1175

Per Dozen	Length Inches	Width Inches	Thick-ness Inches	Width Blade Inches	Weight Per Dozen Pounds
\$8.00	15	1	1/4	1 3/4	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	12 3/4
14	41.00	16 1/2
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	5 3/4
8	16.50	7 1/2
10	18.75	12
12	24.50	17
14	30.00	23 1/2
16	43.00	27
18	51.50	34 3/8

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	12 x 1 3/4
1	11.50	14 x 1 3/4
2	13.00	16 x 2
3	15.00	18 x 2
4	23.00	20 x 2 1/4
5	36.00	24 x 3

Caulking Irons

MALLEABLE IRON



Fig. 307

Size No.	Per Dozen	Thickness Inches	Length Inches	Width Blade Inches	Weight Per Doz. in Lbs.
00	\$16.20	1/32	5	2	3 1/2
0	16.20	1/16	5 3/8	2 1/2	4 1/2
1	18.00	1/8	5 3/8	2 3/4	5 1/4

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
3/16	\$.40	\$.50	7/8	7/16	1/4	7	3000
1/4	.40	.60	1 1/16	7/16	5/16	12	4005
5/16	.47	.90	1 1/4	9/16	3/8	20	6165
3/8	.52	1.35	1 1/2	5/8	7/16	31	7920
7/16	.67	1.60	1 3/4	3/4	1/2	47	11925
1/2	.80	2.40	2	7/8	3/8	69	15570
5/8	1.20		2 1/2	1 1/8	3/4	137	26100
3/4	1.72		2 7/8	1 9/16	7/8	219	35280
7/8	2.26		3 1/4	1 1/2	1	319	47700
1	3.20		3 1/2	1 5/8	1 1/8	500	58140
1 1/8	4.64		4 1/8	1 7/8	1 1/4	681	68400
1 1/4	5.80		4 1/4	2	1 3/8	950	85500
1 3/8	7.26		4 7/8	2 1/4	1 1/2	1218	104400
1 1/2	9.44		6	2 1/2	1 5/8	1625	124200
1 3/4	13.30		8	3	2	2700	190800
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	13/16	7/16	5/16	10	4700
5/16	.47	1	9/16	3/8	18	7200
3/8	.52	1 1/4	5/8	7/16	28	9300
7/16	.67	1 3/8	3/4	1/2	44	14100
1/2	.80	1 5/8	7/8	5/8	70	18300
5/8	1.20	2	1 1/8	3/4	130	30800
3/4	1.72	2 3/8	1 3/16	7/8	212	41600
7/8	2.26	2 3/4	1 1/2	1	300	56000
1	3.20	3 1/8	1 5/8	1 1/8	470	68800
1 1/8	4.64	3 3/8	1 7/8	1 1/4	600	81000
1 1/4	5.80	3 1/2	2	1 3/8	800	100800
1 3/8	7.26	4 1/2	2 1/4	1 1/2	1150	123000
1 1/2	9.44	5 1/8	2 1/2	1 5/8	1480	146000
1 3/4	13.30	6	3	2	2340	225000
2	20.00	6 3/4	3 3/8	2 1/4	3200	272700



Wire Rope Thimbles

GALVANIZED FORGED STEEL

FORGED BRONZE AND STAINLESS STEEL



Fig. 466

For Size Rope Inches	Galv. Per 100	Bronze Per Dozen	Stainless Steel Per Dozen	Length Overall Inches	Width Inside Inches	Wt. Per 100 in Lbs.
1/16	\$ 5.75			1	3/8	1/8
1/8	5.85	1.20	1.50	1 1/4	5/8	2 5/8
3/16	5.85	1.20	1.50	1 3/4	1 1/8	2 3/8
1/4	5.85	1.40	1.75	2	3/4	4 3/8
5/16	7.25	2.10	2.25	2 1/8	1 1/8	5 1/2
3/8	8.70	3.50	3.60	2 3/8	1 1/2	10 5/8
7/16	9.00			2 3/4	1 5/8	14
1/2	11.60			2 7/8	1 7/8	15 1/2
5/8	17.60			3 3/8	1 7/8	27 1/2
3/4	20.75			3 7/8	1 1/2	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

Manila Rope Thimbles

GALVANIZED DROP FORGED STEEL



Fig. 468

For Dia. Rope Inches	Galvanized Per 100	L. D. Hole Inches	O. D. Edge to Edge Inches	Weight Per 100 in Lbs.
1/8	\$ 9.00	3/8	3/4	1 1/2
3/16	9.00	1/2	3/8	2
1/4	11.15	5/8	1	3
5/16	11.50	3/4	1 1/4	5 1/2
3/8	13.90	7/8	1 1/2	9
7/16	16.30	1	1 3/4	17
1/2	21.75	1 1/8	2	25 1/2
5/8	26.60	1 3/8	2 1/4	34
3/4	29.00	1 7/8	2 1/2	38
7/8	43.50	1 1/2	2 3/4	48
1	58.50	2	3	70
1 1/8	72.50	2 3/8	3 1/2	108
1 1/4	181.00	2 3/8	4	150
2	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.
1/8	\$12.80	8 1/2	3/8	\$ 80.00	149
1/4	15.00	16 1/2	1	96.00	190
5/16	16.75	19	1 1/8	152.00	310
3/8	23.00	25	1 1/4	179.00	375
7/16	26.00	32	1 3/8	320.00	560
1/2	29.50	40	1 1/2	344.00	645
5/8	39.50	62	1 3/4	664.00	1085
3/4	56.00	101	2	808.00	1620

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	1/2	1/4
	1.00	1.45	5/16	5/8	3/8
1	1.35	2.65	3/8	3/4	5/8
1 1/2	1.70	3.85	3/8	1	7/8
3/4	2.15	4.40	7/8	1 1/4	1 1/8
	2.55	4.95	1 1/2	1 1/2	1 1/2
1 1/4	3.45		5/8	1 5/8	2
1 1/2	4.40		3/4	1 3/4	2 3/4
1 3/4	5.25		3/4	2	3
2	6.00		3/4	2 1/4	4 1/4

Tiller Rope Clamps

GALVANIZED IRON AND CAST BRONZE



Fig. 358

For Rope Diameter Inches	Galv. Each	Plain Bronze Each	Width Inches	Length Inches	Weight Ounces
1/8	\$.18	\$.25	3/4	1 5/8	1 3/4
1/4	.20	.26	3/4	1 3/4	2
5/16	.25	.35	1	1 3/4	3
3/8	.35	.45	1	2	3 1/2
1/2	.40	.65	1 1/8	2 1/4	5

*Size is from edge to edge across hole.

OPEN TURNBUCKLES

DROP FORGED STEEL—HOT GALVANIZED

HOOK AND EYE

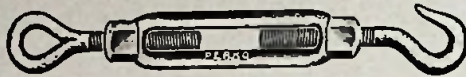


Fig. 390

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 5/8	1/2 x 5/8	3/8
* 1/4 x 4 1/2	.84	.84	.84	1.03	1.23	9 1/4	1/2	1/2 x 3/4	1/2 x 3/4	1/2
* 3/8 x 6	1.08	1.08	1.08	1.38	1.58	11 3/4	5/8	3/4 x 1	1/2 x 1 1/8	3/4
* 1/2 x 6	1.56	1.56	1.56	1.80	2.16	13	1 1/8	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 1/8	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 1/8	1 x 1 3/8	1 1/8 x 1 3/8	3
5/8 x 9	2.62	2.62	2.62	3.18	3.66	17	1 1/8	1 x 1 3/8	1 1/8 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 3/8	1 1/8 x 1 3/8	4 1/2
5/8 x 18		4.20		4.98	5.58	26		1 x 1 3/8	1 1/8 x 1 3/8	6
3/4 x 6	2.70	2.70	2.70	3.36	3.78	15 1/2	1 1/8	1 1/8 x 1 1/2	7/8 x 1 1/2	3 1/2
* 3/4 x 9	3.45	3.45	3.45	4.05	4.50	18 1/2	1 1/8	1 1/8 x 1 1/2	7/8 x 1 1/2	4 1/4
3/4 x 12	4.05	4.05	4.05	4.65	5.25	21 1/2	1 1/8	1 1/8 x 1 1/2	7/8 x 1 1/2	5 1/4
3/4 x 18		5.40		6.30	7.05	27 1/2		1 1/8 x 1 1/2	7/8 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 1/8 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 1/8 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 1/8 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 1/8 x 2 3/8	2 x 2 3/8	30
* 1 1/2 x 18		19.44		22.68	25.92	38		1 1/8 x 2 3/8	2 x 2 3/8	35
1 1/2 x 24		24.48		28.80	33.12	44		1 1/8 x 2 3/8	2 x 2 3/8	41

For one lock nut add 5% to above, for two lock nuts add 10% to above.

*Indicates standard marine lengths. Same will be shipped when no length is specified.

All turnbuckles have right and left hand threads.

3/4 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



Eye and Eye Fig. 381
Jaw and Jaw Fig. 382



Jaw and Eye Fig. 398

Diam. Thread Eye & Eye Inches	Fig. 381 Each	Fig. 382 Jaw & Jaw Each	Fig. 398 Jaw & Eye Each	Length of Pipe Inches	Weight Per 100 in Lbs.
1/4	\$1.10	1.86	\$1.66	5 1/2	47 1/2
5/16	1.30	2.17	1.93	5 3/4	62 1/2
3/8	1.60	2.39	2.23	6 1/2	102
1/2	2.30	3.46	3.10	8	178
5/8	3.30	4.79	4.39	10 3/4	369
3/4	4.40	6.38	5.98	12	500
7/8	5.75	9.21	8.31	15	775
1	7.75	11.73	10.47	15	1025
1 1/4		18.43	16.76	16	2050
1 1/2		33.53	30.17	21	3200

Petite Turnbuckles

CAST BRONZE—S.A.E. THREADS

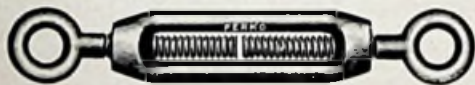


Fig. 396

No.	Plain Per Dozen	Diam. Ends Inches	Length Extended Inches	Takeup Inches	Weight Per 100 in Lbs.
1	\$3.00	1/8	3	3/4	3
2	3.50	5/16	4	1 1/8	6 1/4
3	5.20	3/8	5	1 1/2	11 1/2
4	5.50	1/4	5 3/4	1 7/8	15
5	7.80	5/16	6 7/8	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	5/16	5/16	3/8	1 3/4	4
2	.22	.50	1/4	3/8	1/2	2 1/8	7 1/2
3	.35	.60	1/4	1/2	1/2	2 1/2	10
4	.50	.85	5/16	1/2	3/4	3 1/4	19 1/2
5	.65	1.05	3/8	5/8	3/4	3 1/2	24 1/2
6	.90	1.25	1/2	3/4	1	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
5/16	1.59	4	1	33	4 1/4
3/8	1.70	4 7/8	1 1/8	53	5 1/2
1/2	2.58	6 1/4	1 3/8	133	9 1/2
5/8	4.34	7 7/8	1 5/8	275	14 3/4
3/4	6.16	9 3/8	1 7/8	456	18 1/2
7/8	7.86	10 5/8	2 1/8	671	22 1/4
1	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
5/16	1.98	3 3/4	1/2	1	27
3/8	2.20	4 3/4	5/8	1 1/8	60
1/2	3.52	6	7/8	1 3/8	125
5/8	4.89	7 1/4	1	1 5/8	225
3/4	6.82	8	1 1/8	1 7/8	400
7/8	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 Inside Inches	Length Inside Inches	Est. Wt. Each in Lbs.
3/8	\$2.40	4 3/4	1 1/2	3/8	1
1/2	3.90	6 1/8	2 1/8	3/4	1 3/4
5/8	5.22	7 1/2	1 1/2	1	3
3/4	7.38	8 3/8	1 3/4	1 3/8	5



Screw Eye Bolts

GALV. DROP FORGED STEEL OR BRONZE
LARGE EYE



Without Shoulder—Fig. 500

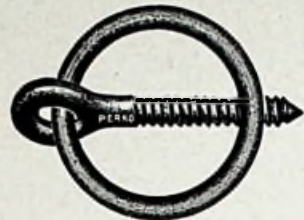
With Shoulder—Fig. 501

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	\$.40	1/2	6
1/4 x 2 1/4	.23	.23	.60	5/8	12
3/8 x 2 1/2	.26	.26	.70	3/4	17
1/2 x 3 1/4	.38	.38	1.50	1	43
5/8 x 4	.67	.67		1 1/4	92
3/4 x 4 1/2	1.14	1.14		1 1/2	146
7/8 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
5/16 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
5/8 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 Eye Bolts

GALV. DROP FORGED STEEL OR BRONZE
LARGE EYE



Without Shoulder—Fig. 522

With Shoulder—Fig. 523

Size Inches	Fig. 522 Galv. Each	Fig. 523 Galv. Each	Fig. 523 Plain Bronze Each	Inside Diam. Eye Inches	Galv. Weight Per 100 in Lbs.
1/4 x 2	\$.24	\$.24	\$.45	1/2	7
1/4 x 4	.33	.33	.70	1/2	10
5/16 x 2 1/4	.26	.26	.65	5/8	13
5/16 x 4 1/4	.40	.40	1.00	5/8	17
3/8 x 2 1/2	.30	.30	.75	3/4	21
3/8 x 4 1/2	.45	.45	1.10	3/4	27
3/8 x 6	.52			3/4	32
1/2 x 3 1/4	.46	.46	1.60	1	45
1/2 x 6	.66	.66	2.10	1	65
1/2 x 8	.76			1	75
1/2 x 10	.82			1	85
5/8 x 4	.76	.76		1 1/4	85
5/8 x 6	.94	.94		1 1/4	110
5/8 x 8	1.04			1 1/4	135
5/8 x 10	1.20			1 1/4	160
5/8 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
7/8 x 5	1.68	1.68		1 3/4	215
7/8 x 8	2.13	2.13		1 3/4	265
7/8 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.

Nut Ring Bolts

GALV. DROP FORGED STEEL OR BRONZE



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	\$.90	1 3/4	16
1/4 x 4	.64			1 3/4	19
5/16 x 2 1/4	.64	.64	1.15	2	28
3/8 x 4 1/4	.72			2	33
3/8 x 2 1/2	.72	.72	1.50	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 1/2	147
5/8 x 6	1.81	1.81		2 3/4	175
5/8 x 8	1.92			2 3/4	190
5/8 x 10	2.03			2 3/4	205
5/8 x 12	2.12			2 3/4	220
3/4 x 4 1/2	2.45	2.45		2 3/4	235
3/4 x 6	2.90	2.90		3	275
3/4 x 8	3.04			3	300
3/4 x 10	3.18			3	334
3/4 x 12	3.32			3	368
7/8 x 5	3.63	3.63		3	400
7/8 x 8	4.25			3 1/4	415
7/8 x 12	4.62			3 1/4	465
1 x 6	5.25	5.25		3 1/4	531
1 x 9	5.98			3 3/4	630
1 x 12	6.30			3 3/4	710
				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	1/8	14
1/2	.38	3 5/8	1	1/8	28
5/8	.60	4 1/8	1 1/4	1/8	50
3/4	.77	5 5/8	1 1/2	1 1/8	90
7/8	1.04	6 1/2	1 3/8	1 1/8	148
1	1.37	7	1 1/2	1 1/4	225

Hooks With Thimbles

DROP FORGED STEEL—LARGE EYE



With wire rope thimble Fig. 610

With manila rope thimble Fig. 611

Size Inches	Galvanized Each	Length Overall of Hook Inches	Score of Wire Thimble Inches	Score of Manila Thimble Inches	Weight Per 100 in Lbs.
3/8	\$.71	2 7/8	1/8	1/8	23
1/2	.77	3 5/8	3/8	3/8	56
5/8	1.26	4 1/8	1/2	3/4	100
3/4	1.37	5 5/8	1/2	7/8	140
7/8	1.92	6 1/2	5/8	1	198
1	2.36	7	3/4	1 1/8	320

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	\$1.25	3 1/2	3/4
3/8	1.65	4	1
1/2	2.10	4 3/4	2 1/8
5/8	4.30	5 7/8	4 3/4

"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
1/4	.90	2	1/2
1/4	1.65	2 1/2	1
3/8	2.00	3	1 3/4
1/2	4.70	3 3/4	5

Connecting Links

DROP FORGED STEEL WITH INTERLOCKING LUGS



Fig. 319

Size Inches	Galv. Per Dozen	Overall Dimensions Inches	Est. Wt. Per Doz. Pounds
1/8	\$ 2.36	1 7/8 x 3/4	3/8
1/4	2.36	1 1/2 x 1	3/4
1/4	2.61	1 3/4 x 1 1/8	1 3/8
3/8	3.47	2 1/8 x 1 3/8	2 1/8
1/2	4.16	2 3/8 x 1 1/2	3 1/8
5/8	5.04	2 5/8 x 1 3/4	4 1/2
3/4	7.86	3 3/8 x 2 1/8	8
7/8	10.45	3 7/8 x 2 1/2	14 1/4
1	14.63	4 1/2 x 3	22
1	22.14	5 x 3 3/8	32

Note: 1/8, 1/4 and 3/8 inch sizes do not have interlocking lugs.

Swing Links

MALLEABLE IRON—WITH BRONZE RIVETS AND INTERLOCKING LUGS



Fig. 784

Size Inches	Galv. Per Dozen	S. C. Per Dozen	Overall Length 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
1/4	3.20	2.50	2 1/4	1/2	1 3/4
3/8	3.95	3.15	2 5/8	1/2	2 3/4
1/2	6.20	4.85	3 1/4	5/8	4 1/2
5/8	8.25	6.50	3 3/8	3/4	6
3/4	14.50	11.25	4 3/8	7/8	11
1	19.50	14.50	5 1/4	1	17 1/2

Lap Links

GALVANIZED WROUGHT STEEL



Fig. 785

Size Inches	Per Doz.	Inside Dimensions of Link Inches	Inside Dimensions of Link Inches
1/4	\$.65	1 x 1/2	1 1/2 x 1 1/2
1/4	.75	1 1/2 x 1/2	2 x 1
1/4	1.50	1 1/2 x 3/8	

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 3/8	1/4	4 3/8
1	.45	.50	2	3/8	10
2	.60	.65	2 3/8	3/8	12 1/2
3	.65	.70	2 3/4	1/2	21
4	1.00	1.40	3	5/8	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	5/8	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	5/8	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

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
\$.45	\$.60	3 1/2	3/4	3/8	2

Baby Snaps

BRASS WITH FAST EYE



Fig. 842

Diam. of Eye Inches	Brass Each	Length Inches
3/8	\$.18	1 1/8

Baby Snaps

WITH OBLONG EYE
ELECTRO GALVANIZED OR BRASS



Fig. 1041

Size of Eye Inches	Galvanized Each	Brass Each	Length Inches
5/8 x 1 1/8	\$.12	\$.15	1 3/8

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

Safety Mooring Hook

DROP FORGED STEEL—HEAT TREATED
STAINLESS STEEL SPRING AND RIVET



Fig. 606

This hook although light in design has exceptional strength. A recommended working load of 750 pounds.

Galvanized Each	I. D. of Eye Inches	Length Overall Inches	Throat Opening Inches	Weight Per 100 in Lbs.
\$.90	3/4	4	3/4	25

Lacing Eyes



Without shoulder Fig. 766
With shoulder Fig. 767

Size No.	I. D. of Eye Inches	Length Under Eye Inches	Wt. Per 100 in Lbs.
1	1/4	1	2 1/2
2	3/8	1 1/4	4 1/2
3	1/2	1 1/2	8
4	3/8	2	12

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



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

Grappels

GALVANIZED DROP FORGED STEEL
FIVE PRONG

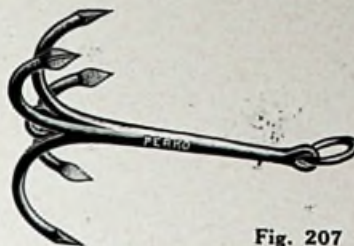


Fig. 207

Weight Pounds	Galvanized Each	Weight Pounds	Galvanized Each
4	\$5.50	15	10.50
7	6.80	20	14.50
10	8.00		

Larger sizes—prices on application.

Fishing Anchors

FOR SMALL BOATS

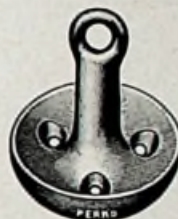


Fig. 1028

Weight Pounds	Self Colored Each	Galvanized Each	Diam. Inches	Height Inches
7	\$1.90	\$2.65	6	8
11	2.65	3.75	7	9
15	3.40	4.70	8	10

Navy Type Anchors

DROP FORGED SHANK—GALVANIZED



Fig. 45

Weight Pounds	Each
5	\$ 2.70
10	4.50
15	6.30
20	7.80
25	10.50
30	12.25
35	15.00
40	17.00

Weight Pounds	Each
50	21.25
60	26.75
80	36.25
100	48.00
125	58.00
150	67.00
200	87.00

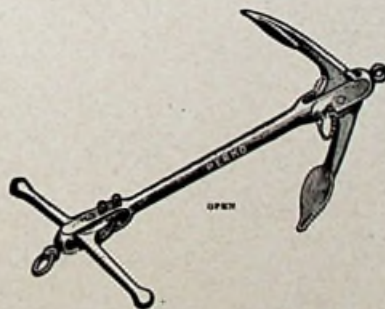


Fig. 226

Weight Pounds	Each	Length Inches
6	\$ 6.50	19
8	9.00	22
10	11.00	23
12	13.00	25
15	16.00	28
20	20.50	30
25	25.00	33

Weight Pounds	Each	Length Inches
30	\$29.00	34
35	34.00	36
45	44.00	38
55	53.00	41
76	70.00	44

Government Tolerance in Weight, Plus or Minus 5%



"Danforth" Anchors GALVANIZED STEEL

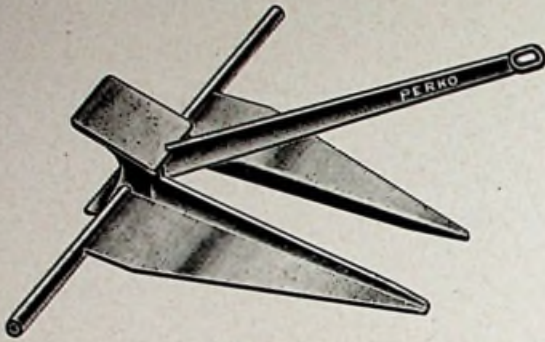


Fig. 700

"Standard" Anchors

FLUKES FABRICATED FROM HIGH STRENGTH ALLOY STEEL PLATE. SHANK IS DROP FORGED STEEL

Weight Pounds	Length Overall Inches	Each	Weight Pounds	Length Overall Inches	Each
2½	17½	\$ 3.95	40	40¾	\$ 33.00
4½	18¾	6.50	65	50	45.00
10	24	9.50	85	54	62.00
15	28¾	14.50	150	52	100.00
25	35½	18.50	200	56½	115.00

Larger sizes, price on application.

"High Tensile" Anchors

FLUKES FABRICATED FROM ROLLED-ALLOY STEEL SECTIONS. SHANK IS DROP FORGED ALLOY STEEL.

Holding power equal to "Standard" anchors of about twice the weight.

Weight Pounds	Length Overall Inches	Each	Weight Pounds	Length Overall Inches	Each
5	21	\$ 9.50	28	39½	\$ 44.00
12	27½	21.50	60	49¾	90.00
18	34¼	32.00	90	53½	110.00

SUGGESTED SIZES

This table is a rough guide to sizes many customers use. In making suggestions consider the weight and shape of the boat, the type of holding ground, the scope of the anchor cable and exposure to wind and sea which vary to an almost incalculable extent. Local conditions and experience will indicate when smaller or larger sizes are more desirable.

Maximum Length of Boat	"Standard"		"Hi-Tensile"		
	Working Anchor	Storm Anchor	Lunch Hook	Working Anchor	Storm Anchor
12 ft.	2½	4½			5
20 ft.	4½	15	4½ (Std.)	5	12
30 ft.	15	25	5	12	18
40 ft.	25	40	12	18	28
60 ft.	40	65	18	28	50
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 when ordering. "Standard" will be shipped unless otherwise specified.

Northhill Utility Anchors

HEAT TREATED DUCTILON—GALVANIZED NORTHILL HOLDING POWER AT LOW PRICE

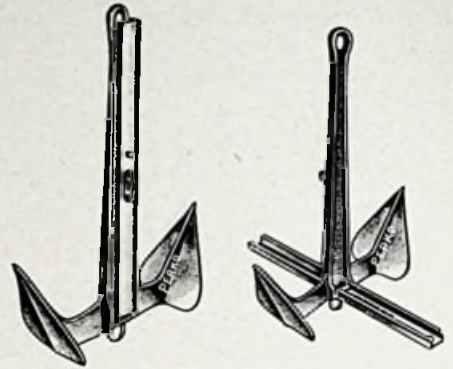


Fig. 1067

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	Comparative Weight Kedge Type Pounds	Comparative 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

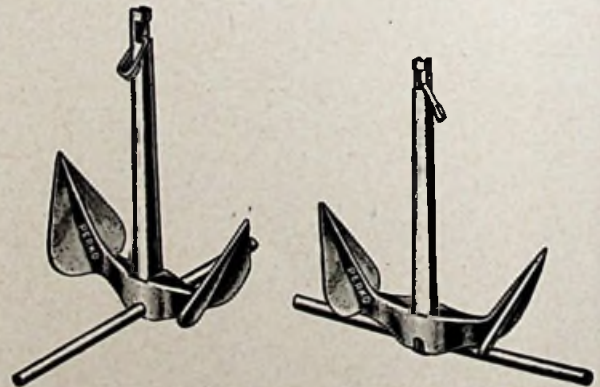


Fig. 548

The arm and fluke assembly pivot on the shank for stowage or to open for use.

Each	Weight Pounds	Inches Length	Width Flukes Inches
\$4.85	3	12	10

ANCHOR CHOCKS

CAST BRONZE—PLAIN

FOR NAVY TYPE ANCHORS

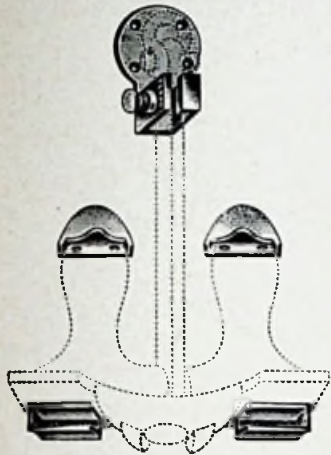


Fig. 938

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

- Complete, per set \$8.50
- Shank support only, each \$3.50
- Fluke supports only, per pair \$3.00
- Arm supports only, per pair \$2.50

FOR KEDGE ANCHORS

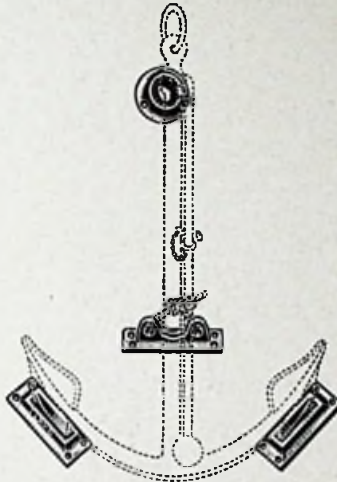


Fig. 939

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

- Complete, per set \$7.50
- Shank support only, each \$2.00
- Lashing fitting only, each \$2.00
- Fluke supports only, per pair \$4.00

FOR NORTHILL ANCHORS

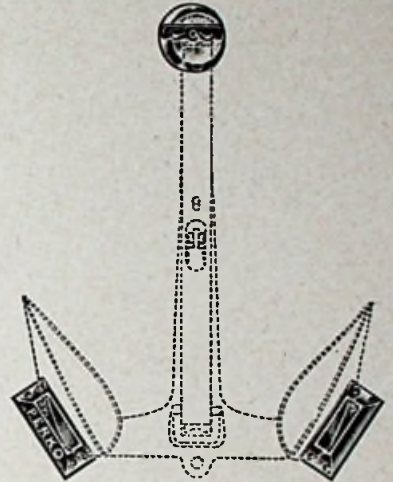


Fig. 941

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 pounds

- Complete, per set \$6.50
- Shank support only, each 3.00
- Fluke supports only, per pair \$4.00

FOR DANFORTH ANCHORS

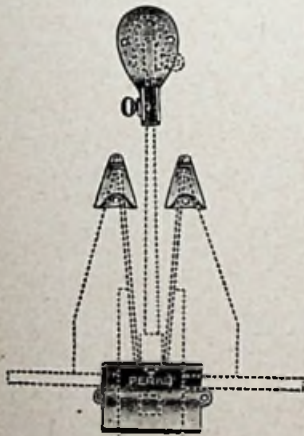


Fig. 933

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

- Complete, per set \$6.25
- Shank support only, each \$2.75
- Fluke supports only, per pair \$2.00
- Crown support only, each \$2.00

NEW ANCHOR LASHING FITTING CAST BRONZE BASE, Brass Eyebolts and Nuts

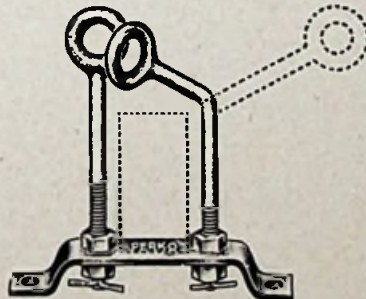


Fig. 965

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 Northhill 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

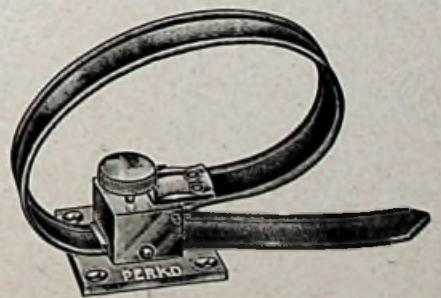


Fig. 964

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 1/8" 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 1/4 inch chain or 32 feet of 3/8 inch chain, dead weight.

Each	Diameter Rod Inches	Size Inside Swivel Inches	Weight Pounds
\$32.00	1/2	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 5/8 inch forged rod through a galvanized pipe in the body, large eye on top, large heavy swivel on bottom, a substantial rubber bumper set in groove of body, will not mar or scratch hull of boat.

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 5/8 inch buoy rod through pipe allowing body to swivel, eye on top, swivel on bottom, body grooved for bumper which is of heavy 1 1/2 inch outside diameter rubber hose.

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.

No.	Each	Diam. Inches	Length Inches	Weight Pounds
1	\$8.50	9	14	4
2	9.90	12	18	5

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

Braided Tiller Rope

WITH BRONZE CENTER



Fig. 761

Diam. Inches	Per 100 Feet
5/8	\$ 8.00
1/4	10.00
3/8	12.00
1/2	14.00

Supplied only in 500 foot coils.

Rubber Covered Tiller Rope

PLOW STEEL CENTER

MOISTURE PROOF—CORROSION RESISTANT

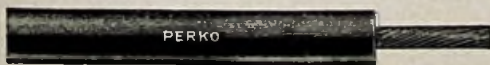


Fig. 763

The covering is synthetic rubber, impervious to grease and oil. The wire is 5/8 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
5/8	\$ 8.00	300	8½
1/4	10.00	350	14½
3/8	14.00	660	19

Supplied only in 250 foot coils

Assorted Sheaves

GALVANIZED IRON AND BRONZE
COMMON BUSHED—FOR MANILA ROPE



Fig. 154

No.	Each	Diam. Inches	Thickness Inches	For Rope Inches	Size Pin Inches
1	\$.18	3/4	5/8	5/8	1/8
2	.24	1	3/8	1/4	1/8
3	.27	1 1/4	3/8	3/8	1/8
4	.30	1 1/2	1/2	3/8	1/8
5	.40	1 3/4	1/2	1/2	1/4
6	.45	2	3/8	1/2	1/4
7	.55	2 1/2	3/4	5/8	3/8
8	.65	3	7/8	3/4	3/8

No.	Each	Diam. Inches	Thickness Inches	For Rope Inches	Size Pin Inches
9	.28	3/8	3/8	1/4	3/8
10	.31	3/4	3/8	1/4	3/8
11	.35	3/4	3/8	3/8	1/4
12	.39	5/8	3/8	3/8	1/4
14	.45	1 1/8	3/8	1/2	3/8
15	.52	1 1/8	5/8	1/2	3/8
16	.58	1 1/4	3/8	3/8	3/8
17	.65	1 3/8	1/2	3/8	3/8
18	.78	1 3/4	1/2	3/8	1/4
19	.84	1 7/8	3/8	3/8	3/8
20	1.17	2 1/4	1/2	3/8	3/8
21	5.20	6	7/8	3/8	3/4

Assorted Brass Pins

FOR BLOCK SHACKLES, TURNBUCKLES, ETC

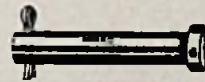


Fig. 1176

No.	Each	Diam. Pin Inches	Length Under Head Inches	Diam. Head Inches	Type
1	\$.25	5/8	3/8	1/4	Flat
2	.25	5/8	1	1/4	Flat
3	.25	3/4	5/8	3/8	Round
4	.25	1/4	3/4	3/8	Flat
5	.28	1/4	7/8	3/8	Flat
6	.30	1/4	1 1/8	3/8	Flat
7	.30	1/4	1 1/8	3/8	Flat
8	.30	3/8	7/8	3/8	Flat
9	.30	3/8	1 1/8	3/8	Flat
10	.30	3/8	1	3/8	Flat
11	.32	3/8	1 1/8	3/8	Round
12	.32	3/8	1 1/4	3/8	Flat
13	.32	3/8	1 1/2	3/8	Flat
14	.36	3/8	1 3/8	1/2	Flat
15	.40	3/8	1 3/8	3/4	Flat
16	.40	3/8	1 3/8	3/4	Flat
17	.40	3/8	1 3/8	1/2	Round
18	.40	3/8	1 3/8	1 1/2	Flat
19	.45	3/8	1 3/4	1 1/2	Flat
20	.55	1/2	1	1 1/2	Flat
21	.60	1/2	2 3/8	5/8	Flat
22	.65	1/2	1 3/8	5/8	Flat
23	.65	1/2	1 3/4	5/8	Flat
24	.70	1/2	1 1/2	5/8	Flat
25	.80	5/8	1 5/8	3/4	Round

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	\$.23	\$.25	\$.30	\$.56	$\frac{1}{8}$	$\frac{3}{4} \times \frac{1}{8}$	$\frac{1}{8}$
3	.30	.30	.42	.85	$\frac{1}{4}$	$1 \times \frac{3}{8}$	$\frac{1}{4}$
5	.38	.40	.67	1.21	$\frac{1}{2}$	$1\frac{1}{4} \times \frac{1}{2}$	$\frac{1}{4}$
7	.56	.60	.77	1.38	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$	$\frac{3}{8}$
9	.71	.75	1.40		$\frac{7}{8}$	$1\frac{3}{4} \times \frac{1}{2}$	$\frac{1}{2}$
11	1.13	1.75	1.80		$\frac{1}{2}$	$2 \times \frac{3}{8}$	$\frac{3}{8}$
13	1.84	2.25			$\frac{5}{8}$	$2\frac{1}{2} \times \frac{3}{4}$	$1\frac{1}{4}$
15	2.50	3.30			$\frac{3}{4}$	$3 \times \frac{1}{2}$	$1\frac{3}{8}$

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	$1\frac{1}{2}$	$\frac{3}{16}$	$\frac{1}{8}$
3	1.45	1.55	$1\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{4}$
5	1.55	1.60	2	$\frac{1}{8}$	$\frac{1}{8}$
7	1.75	1.85	$2\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{8}$
9	2.30	2.40	3	$\frac{1}{4}$	$\frac{3}{8}$
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	\$.34	\$.40	\$.50	\$1.20	$\frac{1}{8}$	$\frac{3}{4} \times \frac{1}{8}$	$\frac{3}{16}$
4	.42	.60	.81	1.65	$\frac{1}{4}$	$1 \times \frac{3}{8}$	$\frac{1}{4}$
6	.75	.95	1.25	2.40	$\frac{1}{2}$	$1\frac{1}{4} \times \frac{1}{2}$	$\frac{3}{8}$
8	.88	1.10	1.54	3.45	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$	$\frac{3}{8}$
10	1.17	1.50			$\frac{7}{8}$	$1\frac{3}{4} \times \frac{1}{2}$	$\frac{3}{4}$
12	1.50	2.00			$\frac{1}{2}$	$2 \times \frac{3}{8}$	$1\frac{1}{4}$
14	2.65	3.10			$\frac{5}{8}$	$2\frac{1}{2} \times \frac{3}{4}$	$2\frac{7}{8}$
16	4.35	4.50			$\frac{3}{4}$	$3 \times \frac{1}{2}$	$2\frac{3}{4}$

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	$\frac{1}{8}$	$\frac{1}{2}$
8	2.20	2.30	$2\frac{3}{8}$	$\frac{3}{8}$	$\frac{7}{8}$
10	2.85	3.05	3	$\frac{1}{4}$	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	5/16	1	1/2	1/2
1	3/8	1 1/4	3/4	1 1/4
3	1/4	1 3/4	1	2
5	5/8	2	1 1/4	2 7/8
7	3/8	2 1/4	1 1/2	4 7/8

Size No.	Galvanized Iron Each	Plain Bronze Each	Polished Bronze Each
0	\$.29	\$.90	\$1.50
1	.34	.95	1.55
3	.48	1.25	1.75
5	.73	1.55	2.20
7	.84	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 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	3/8	6	9	5 1/2

UPRIGHT PATTERN

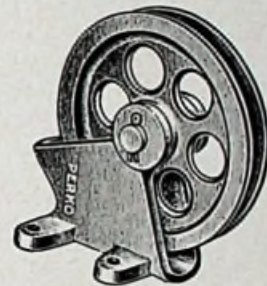


Fig. 963

Plain Bronze Each	For Wire Rope Diameter Inches	Diameter Sheave Inches	Height Overall Inches	Weight Pounds
\$14.00	3/8	6	7 1/2	5 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	5/16	1	1/2	1 1/4
2	3/8	1 1/4	3/4	2 1/4
4	1/4	1 3/4	1	3 3/8
6	5/8	2	1 1/4	4 1/2
8	3/8	2 1/4	1 1/2	7

Size No.	Galvanized Iron Each	Plain Bronze Each	Polished Bronze Each
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	3/4 x 2 1/4	1/4	1 3/8
2	.45	.90	7/8 x 2 1/4	5/8	2
3	.55	1.15	1 x 3 3/8	3/8	3 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	\$.95	\$2.10	\$3.15	1/4	Swivel Eye	20
5	1.10	2.50	3.60	5/8	Swivel Eye	35
7	1.55	2.80	4.15	3/8	Swivel Eye	66
9	2.15			5/8	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	\$.30	\$.75	\$ 1.40	5/16	1 1/4 x 3/8
1	.70	.35	.90	1.70	3/8	1 1/2 x 1/2
3	1.20	.60	1.80	2.85	1/2	2 x 5/8
5	2.00	1.10	3.60	4.75	5/8	2 1/2 x 3/4
7	3.00	1.90	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

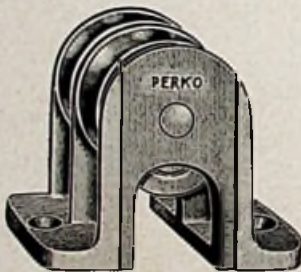


Fig. 88

Size No.	Mall. Iron Each	Cast Iron Each	Plain Bronze Each	Pol. Bronze Each	For Diam. Rope Inches	Size Sheave Inches
2	\$ 1.20	\$.60	\$ 1.60	\$ 2.75	3/8	1 1/2 x 1/2
4	2.20	1.25	3.50	4.75	1/2	2 x 3/8
6	3.85	2.80			5/8	2 1/2 x 3/4
8	5.25	3.25			3/4	3 x 7/8

Cast iron furnished unless otherwise specified.

Cheek Blocks

GALVANIZED MALLEABLE IRON OR BRONZE
SINGLE



Fig. 95

Size No.	Galv. Gray Iron Each	Galv. Mall. Iron Each	Plain Bronze Each	Pol. Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Wgt. Lbs.
0	\$.45	\$.65	\$.75	\$ 1.25	1/4	1 x 3/8	1/8
1	.50	.85	.90	1.50	5/16	1 3/8 x 1/2	1/4
2	.55	.95	1.10	1.80	3/8	1 1/2 x 1/2	3/8
3	.75	1.80	1.90	2.85	1/2	2 x 5/8	3/4
4	1.50	2.25	2.75	3.85	5/8	2 1/2 x 3/4	1 1/4
5	2.40	3.60			3/4	3 x 7/8	2
6	4.00	6.25			7/8	3 1/2 x 1	4

Note—Galvanized malleable blocks shipped unless otherwise specified.

Bell Chain Leaders

CAST BRONZE—PLAIN



Upright Type—
Fig. 912

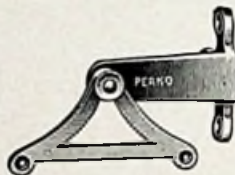


Flat Type—
Fig. 913

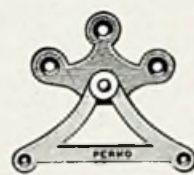
Diam. Sheave Inches	Width of Groove Inches	Single Sheave Each	Double Sheave Each	Triple Sheave Each	Quadruple Sheave Each
2	5/16	\$ 2.00	\$ 3.20	\$ 7.25	\$ 6.50
3 1/2	5/16	4.00	6.00	8.00	10.00

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	1/32	3/8	3 1/2

Cheek Blocks

GALVANIZED MALLEABLE IRON OR BRONZE
DOUBLE



Fig. 96

Size No.	Galv. Each	Plain Bronze Each	Pol. Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Wgt. Lbs.
11	\$ 1.50	\$ 1.80	\$ 2.50	5/16	1 3/8 x 1 1/4	1/2
12	1.75	2.75	3.00	3/8	1 1/2 x 1 1/2	1 1/8
13	2.50	4.25	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	\$.90	\$1.25	1/4 - 5/16	1 1/8 x 7/8	3/8
2	1.50	2.50	3/8	3 x 5/16	1 3/8
3	3.25	4.75	7/16	4 x 5/8	3
3 1/2	4.00		1/2	4 1/2 x 3/4	4 1/4
4	5.50		5/8	5 x 7/8	5 1/4
5	8.00		3/4	6 x 1	8 1/2

Cheek Blocks

FOR WIRE ROPE

GALVANIZED CAST IRON OR BRONZE



Fig. 140

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
1	\$.75	\$1.25	1/4 - 5/16	1 1/8 x 7/8	3/8
2	1.25	2.25	3/8	3 x 5/8	1 3/8
3	2.25	5.00	7/16	4 x 3/4	2 3/4
3 1/2	3.25		1/2	4 1/2 x 3/4	4 1/4
4	3.80		5/8	4 x 7/8	5 1/4
5	6.50		3/4	6 x 1	11

Wire Rope Pulleys

GALVANIZED MALLEABLE IRON OR BRONZE

SINGLE-SIDE PATTERN

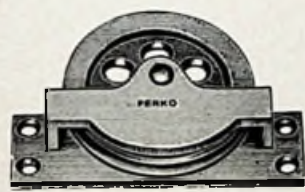


Fig. 194

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
1	\$1.40	\$2.65	1/4	2 1/2 x 3/8	1/2
2	1.75	2.50	5/16	3 1/4 x 1/2	1 1/4
3	3.00	4.25	3/8 - 7/16	4 1/2 x 1/2	2 3/8

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	1/4	2 1/2 x 3/8	1 1/8
12	2.75	4.00	5/16	3 1/4 x 1/2	2
13	4.50	6.75	3/8 - 7/16	4 1/2 x 1/2	4 1/4

Wire Rope Pulleys

GALVANIZED MALLEABLE IRON OR BRONZE

SINGLE-UPRIGHT PATTERN



Fig. 279

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
10	\$1.40	\$2.65	1/4	2 1/2 x 3/8	3/8
20	1.75	2.50	5/16	3 1/4 x 1/2	1 1/2
30	3.00	4.25	3/8 - 7/16	4 1/2 x 1/2	2 1/2

Wire Rope Pulleys

GALVANIZED MALLEABLE IRON OR BRONZE

DOUBLE-UPRIGHT PATTERN



Fig. 280

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
110	\$2.20	\$3.85	1/4	2 1/2 x 3/8	1 1/8
120	2.75	4.00	5/16	3 1/4 x 1/2	2
130	4.50	6.75	3/8 - 7/16	4 1/2 x 1/2	4 1/4

Improved Tiller Rope Pulley

FORGED BRONZE
WITH LAMINATED PLASTIC SHEAVE
SWIVEL TYPE—WITH STRAP



Fig. 585

Light in weight but very strong, the plastic sheave is well known for its ability to withstand shock and is impervious to salt water. It has disc bearings for smooth operation. The swivel eye is free turning and patented.

Dull Bronze Each	For Rope Diam. Inches	Length Overall Inches	Diam. Sheave Inches	Length Strap Inches	Weight Ounces
\$1.60	5/16	3 3/8	1 7/8	1 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 Rope Diam. Inches	Length Overall Inches	Size Sheave Inches	Length Strap Inches	Wt. Oza.
0	\$1.45	1/4-5/16	2	1 1/8 x 7/8	1 7/8	2 1/2
1	2.00	3/8	2 1/2	1 3/8 x 1 1/2	2 1/4	4 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
*	1 3/8	3/4 x 7/8	1 7/8	3
Dull Bronze Each		Polished Bronze Each	Chromium Plated Each	
\$1.15		\$1.60	\$2.25	

Tiller Rope Guides

FORGED BRONZE



Upright Fig. 593



Side Fig. 594

Fig.	Dull Bronze Each	Pol. Bronze Each	Chrom. Plated Each	For Rope Diam. Inches	Size Base Inches	Wt. Ozs.
593	\$1.00	\$1.10	\$1.85	7/8	7/8 x 1 1/2	2
594	.95	1.05	1.80	7/8	3/4 x 2	1 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 Rope Diam. Inches	Diam. Base Inches
1	\$.25	\$.40	\$.80	\$1.60	1/4	1 3/8
2	.30	.50	.90	1.80	5/16	1 1/4
3	.40	.75	1.25	2.50	3/8	1 3/4

Tiller Rope Guides

BRONZE



Fig. 359

No.	Plain Bronze Each	Polished Bronze Each	Chrom. Plated Each	Size Hole Inches	Size Base Inches	Weight Ounces
1	\$.30	\$.55	\$1.00	3/8	1 3/8 x 3/4	3/4
2	.35	.60	1.20	1/2	1 1/2 x 7/8	1 1/2
3	.40	.70	1.40	5/8	1 3/4 x 1 1/4	2

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	\$.15	\$.30	\$.55	\$1.00	3/8	1 3/8 x 7/8
2	.18	.35	.60	1.10	1/2	1 1/2 x 7/8
3	.25	.40	.65	1.30	5/8	1 3/4 x 1 1/4

No. 1 size is forged bronze.

Lightweight Block

WITH FRONT SHACKLE
SINGLE ONLY—FOR MANILA ROPE

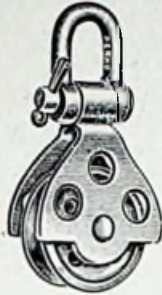


Fig. 432

No.	Plain Each	For Diam. Rope Inches	Size Sheave Inches	Weight Ounces
0	\$1.50	$\frac{1}{4}$ - $\frac{1}{8}$	$1\frac{1}{8} \times \frac{1}{8}$	3
1	2.10	$\frac{3}{8}$	$1\frac{3}{8} \times \frac{1}{2}$	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	$1\frac{3}{8}$	$\frac{3}{4} \times \frac{3}{8}$	$\frac{3}{8}$	$2\frac{1}{2}$

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	\$.90	\$1.20	$\frac{1}{8}$	$\frac{3}{4} \times \frac{1}{8}$	2
1	1.00	1.45	$\frac{3}{8}$	$\frac{7}{8} \times \frac{1}{2}$	$2\frac{1}{2}$
2	1.40	1.85	$\frac{1}{2}$	$1\frac{1}{8} \times \frac{3}{8}$	5

Swivel Eye Block on Plate

FORGED BRONZE

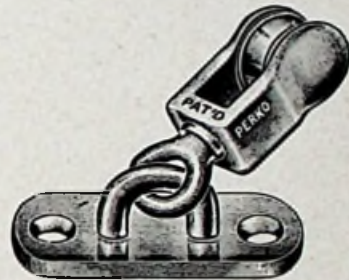


Fig. 935

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

Swivel Eye Block on Slide

FORGED BRONZE

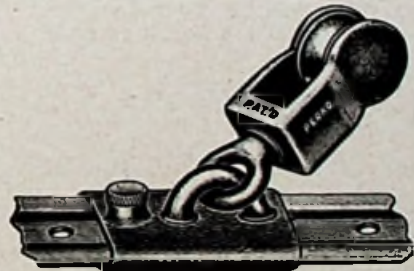


Fig. 936

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
	\$2.75	$1\frac{3}{4}$	1	$7\frac{1}{2}$

Without track, deduct \$.50 each.

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	\$1.40	$\frac{1}{8}$	$\frac{3}{4} \times \frac{1}{8}$	$2\frac{1}{2}$	$3\frac{1}{2}$
1	1.70	$\frac{3}{8}$	$\frac{7}{8} \times \frac{1}{2}$	$2\frac{1}{2}$	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.	Complete		For Diam. Rope Inches	Weight Ounces
	Plain Each	Polished Each		
0	\$1.75	\$2.00	$\frac{1}{4}$ - $\frac{1}{8}$	3 $\frac{1}{2}$
1	2.20	2.60	$\frac{3}{8}$	4 $\frac{1}{2}$
2	3.20	4.00	$\frac{1}{2}$	10

Size No.	Length Overall Inches	Size of Sheave Inches	Weight Ounces
1	2 $\frac{3}{8}$	1 $\frac{3}{8}$ x $\frac{1}{2}$	4 $\frac{1}{2}$
2	3 $\frac{1}{4}$	1 $\frac{1}{8}$ x $\frac{5}{8}$	10

Upset Front Shackle Block

SINGLE ONLY



Fig. 852

Size No.	Complete		Shackle with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$3.00	\$3.25	\$1.25	\$1.45
1	3.35	3.75	1.45	1.65
2	4.50	5.50	1.75	2.00

For dimensions and other data, see Fig. 850.

For shackles only, see Fig. 893.

Front Shackle Block

SINGLE ONLY



Fig. 851

Size No.	Complete		Shackle with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$3.00	\$3.25	\$1.25	\$1.45
1	3.35	3.75	1.45	1.65
2	4.50	5.50	1.75	2.00

For dimensions and other data, see Fig. 850.

For shackles only, see Fig. 893.

Upset Side Shackle Block

SINGLE ONLY



Fig. 855

Size No.	Complete		Shackle with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$3.00	\$3.25	\$1.25	\$1.45
1	3.35	3.75	1.45	1.65
2	4.50	5.50	1.75	2.00

For dimensions and other data, see Fig. 850.

For shackles only, see Fig. 893.

Side Shackle Block

SINGLE ONLY



Fig. 854

Size No.	Complete		Shackle with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$3.00	\$3.25	\$1.25	\$1.45
1	3.35	3.75	1.45	1.65
2	4.50	5.50	1.75	2.00

For dimensions and other data, see Fig. 850.

For shackles only, see Fig. 893.

Side Snap Shackle Block

SINGLE ONLY



Fig. 857

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

SINGLE ONLY



Fig. 861

Size No.	Complete		Strap with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$3.00	\$3.25	\$1.25	\$1.45
1	3.35	3.75	1.45	1.65
2	4.50	5.50	1.75	2.00

For dimensions and other data, see Fig. 850.

For straps only, see Fig. 881.

Swivel Deck Leader

SINGLE ONLY

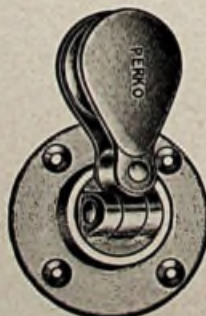


Fig. 864

Size No.	Complete		Base with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$5.25	\$6.00	\$4.10	\$4.55
1	6.25	7.00	4.40	5.00
2	8.00	9.00	6.00	6.75

Size No.	Diam. Base Inches	Weight Pounds
0	2 $\frac{1}{4}$	$\frac{1}{2}$
1	2 $\frac{3}{4}$	$\frac{3}{4}$
2	3 $\frac{1}{4}$	1 $\frac{1}{2}$

NEW LIGHTWEIGHT BRASS BLOCKS FOR SAILBOATS

14 B & S GAUGE BRASS SHELL—MILLED BRASS SHEAVES—PLAIN BUSHED SHACKLES, STRAPS AND SWIVEL EYE ARE DROP FORGED BRONZE
ALL FITTINGS ARE INTERCHANGEABLE

These are produced to meet the demand for strong, lightweight, inexpensive and good looking blocks for sailboats. Note that the shell is of heavy gauge brass for strength beyond normal requirements, the sheaves are smooth free turning and that the fittings are not castings but forged bronze of great tensile strength. These are the same fittings that are used with much more expensive blocks.

Block Only WITHOUT FITTINGS



Fig. 801

No.	Bright Finish Each	Polished Each	Chromium Plated Each	For Rope Inches	Length Overall Inches	Wt. Ozs.
0	\$1.50	\$1.60	\$2.20	1/4	1 7/8	2
1	1.90	2.00	2.75	5/8 - 3/8	2 3/8	3 1/4

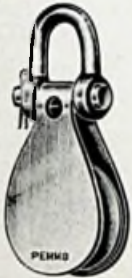
Block With Eye Strap



Fig. 808

No.	Bright Finish Each	Polished Each	Chrom. Plated Each	For Rope Inches	Length Overall Inches	Wt. Ozs.
0	\$1.85	\$1.95	\$2.20	1/4	2 1/8	2 1/2
1	2.25	2.35	2.75	5/8 - 3/8	2 1/2	4

Block With Shackle



Front Shackle
Fig. 802



Side Shackle
Fig. 806

No.	Bright Finish Each	Polished Each	Chromium Plated Each	For Rope Inches	Length Overall Inches	Wt. Ozs.
0	\$1.85	\$1.95	\$2.70	1/4	2 1/2	2 1/2
1	2.25	2.35	3.25	5/8 - 3/8	3 1/4	4 1/4

Block With Upset Shackle



Front Shackle
Fig. 812



Side Shackle
Fig. 821

Swivel Eye Fittings

FOR ATTACHMENT TO FIG. 801 BLOCK



Fig. 807

This fitting attached to a Fig. 801 block creates a swivel eye block of smooth action and adequate strength.

No.	Bright Finish Each	I. D. Eye Inches	Diam. Pin Inches	Weight Ounces
0	\$1.25	1/2	5/8	3/8
1	1.40	1/2	1/4	3/4

No.	Bright Finish Each	Polished Each	Chrom. Plated Each	For Rope Inches	Length Overall Inches	Wt. Ozs.
0	\$2.15	\$2.25	\$3.00	1/4	3 3/8	3
1	2.60	2.70	3.60	5/8 - 3/8	4 3/8	5 1/4

NOTES

Sheave Sizes—No. 0, diameter 1 inch, thickness 1/8 inch. No. 1, diameter 1 3/8 inches, thickness 1/4 inch.

Spare Parts—Shackles, see Fig. 893, No's 0 & 1, STRAPS, see Fig. 88 | No's 0 & 1.

Finish—Bright finish is not polished but very attractive and practicable. Polished blocks have bright finished fittings.

Centerboard Blocks

GALVANIZED CAST IRON OR BRONZE



Fig. 827

No.	Galv. Each	Plain Bronze Each	Size Rope Inches	Size Sheave Inches	Weight Pounds
1	\$.90	\$1.60	3/8	1 1/2 x 1/2	3/4
2	1.60	3.00	1/2	2 x 5/8	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	\$.45	1/4 Cotton	3/4 x 3/8	1 1/2
886	.85	1/8 Wire	1 1/4 x 1/4	3 1/2

Block Shackles

FORGED BRONZE

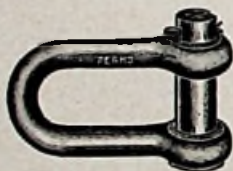


Fig. 893

No.	Size Inches	Plain Each	Pol. Each	Length Inside Inches	Width Inside Inches	Diam. Pin Inches	Wt. Ozs.
0	1/8	\$.50	\$.80	5/8	7/8	3/16	1 1/2
1	1/4	.60	.90	7/8	1	1/4	1
2	3/8	.70	1.10	1 1/8	5/8	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	\$1.00	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	\$2.25	1/4	3/8	1 1/8	5/8	1 3/4
1	3.00	5/8 - 3/8	1/2	3/4	1 1/8	3 1/2
2	3.75	1 1/8 - 1/2	3/4	1 1/4	7/8	7 1/2

Swivel Eye Snap Shackles

CAST BRONZE—PLAIN

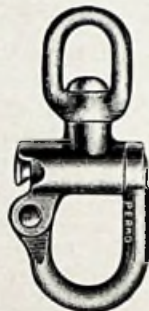


Fig. 874

No.	Each	For Diam. Rope Inches	I. D. Eye Inches	Length Inside Inches	Width Inside Inches	Wt. Ozs.
0	\$3.50	1/4	3/8	1 1/8	9/16	2 1/2
1	4.50	5/8 - 3/8	1/2	3/4	1 1/8	5 1/2
2	5.50	1 1/8 - 1/2	3/4	1 1/8	7/8	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	2.25	1 3/8	1 1/8	5/8	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	\$2.75	1/2	7/8	5/8	1 1/8	3
2	3.50	3/4	7/8	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	Weight Ounces
1	\$.75	3 1/8	1/8 x 3/4	1/8	4
2	1.25	3 1/2	1/2 x 7/8	3/8	6

Eye Straps FORGED BRONZE



Fig. 881

No.	Plain Each	Polished Each	Length Inches	Size Eye Inches	Stock in Eye Inches	Wt. Ozs.
00		\$.30	1 1/2	1/4	1/8	1/4
0	.22	.40	1 7/8	3/8	1/4	1/2
1	.28	.50	2 1/4	3/8	3/8	3/4
2	.35	.65	2 3/4	1/2	1/2	1 1/2
3	.55	1.00	3 1/8	3/8	3/8	2 1/2

Sizes No. 00 and 3 are cast bronze.

Deck Straps CAST BRONZE



Fig. 882

No.	Plain Each	Polished Each	Length Inches	Size Eye Inches	Stock in Eye Inches	Wt. Ozs.
1	\$.45	\$.85	3 1/2	1/2	1/8	1 1/2
2	.70	1.15	4 1/4	3/8	3/8	2 1/2
3	1.00	1.60	4 3/4	3/8	1/2	4 1/2

Flange Eyes CAST BRONZE



Fig. 877

Size No.	Plain Bronze Each	Polished Bronze Each	Size Opening Inches	Size Base Inches	Weight Ounces
1	\$.25	\$.55	3/8	2 1/8 x 1 3/8	1
2	.45	.75	3/4	2 1/4 x 1 3/8	2

Thru-Deck Fairleaders BRONZE



Fig. 891

Size No.	Bright Finish Each	Inside Dia. Hole Inches	Outside Dia. Flange Inches	Weight Ounces
1	\$.35	3/8	1 1/4	3/4
2	.45	1/2	1 1/2	1 1/2

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	\$.25	1/2	1 1/2
2	.35	3/8	3

Double Flare Lip Leaders CAST BRONZE



Fig. 889

No.	Plain Each	Opening Inches	Weight Ounces
0	\$.30	3/8	3/4
1	.40	1/2	1
2	.55	5/8	1 3/4

Adjustable Jib Sheet Leaders CAST BRONZE—PLAIN



Fig. 1114

One solid casting with large head thumb screw for fastening with fingers. Furnished with 24 inches of 5/8 inch nickel silver track, if required.

Without Track Each	With Track Each	Length Inches	Size Eye Inches	Complete Weight Ounces
\$1.10	\$1.60	1 3/8	3/4 x 3/8	6

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

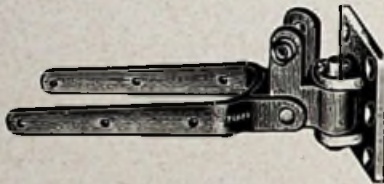


Fig. 1034

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

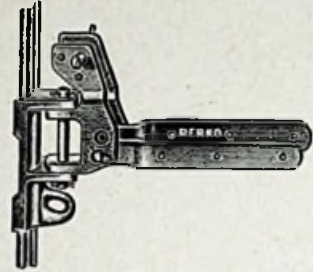


Fig. 915

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
\$3.90	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
\$3.50	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
\$2.50	2 3/4	3 3/4	3/8	6

Lightweight Sliding Goosenecks

CAST BRONZE—PLAIN

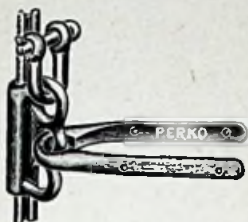


Fig. 916

Straps are adjustable for booms of various thickness. Track not included.

Each	For Track Inches	For Boom Thickness Inches	Length Inside Straps Inches	Wt. Ozs.
\$2.75	3/8	up to 1 1/2	3 1/2	8

Clew Outhaul

CAST BRONZE—PLAIN

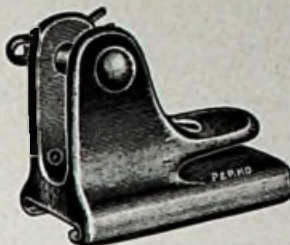


Fig. 1047

Each	For Track Inches	Jaw Opening Inches	Length Inches	Height Inches	Weight Ounces
\$1.40	3/8	3/8	1 3/4	1 1/2	3 1/2

Whisker Pole Fittings

CAST BRONZE—PLAIN

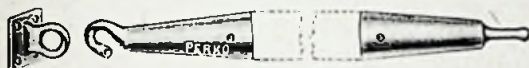


Fig. 836

Designed for quick action in poling out jibs, light in weight but strong. A set consists of three parts illustrated.

Per Set	For Diam. Pole Inches	Size Eye Plate Inches	Weight Per Set Ounces
\$3.00	1 or 1 1/8	1 1/2 x 1 1/4	10

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	\$3.25	75	3/8	2	4
1	3.75	125	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	\$.50	1 1/2 to 1 3/4	2 1/2
1113	.45	3/4 to 1	1 1/2

Self Locking Clew Outhaul

CAST BRONZE

INSTANT RELEASE—LIGHTWEIGHT
FOR SMALL BOATS

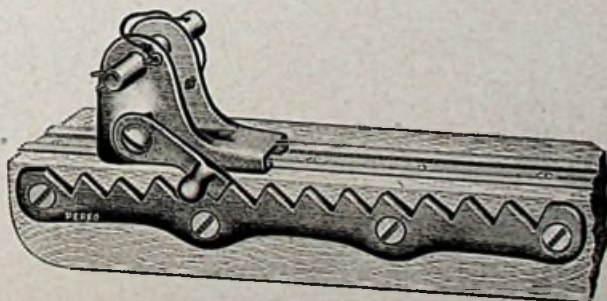


Fig. 817

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
\$5.00	\$2.00	3/8	10	2 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 1/4	3
2 1/2	1.50	1 1/2	4
3	1.75	1 3/8	7

Automatic Jam Cleats
CAST BRONZE—POLISHED

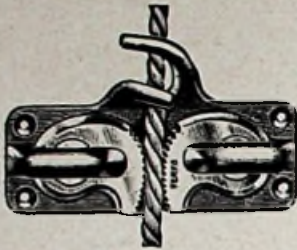


Fig. 895

No.	Each	For Rope Inches	Size Base Inches	Wt. Ozs.
1	\$6.00	1/4-5/16	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
0	\$.85	3	7/16	2
1	1.00	4	1/2	3 1/2
2	1.25	5	3/8	5 1/2

Roller Jam Cleats
CAST BRONZE

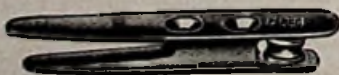


Fig. 894

No.	Polished Each	For Diam. Rope Inches	Extreme Length Inches	Weight Ounces
1	\$2.25	1/8 to 1/4	4	4
2	3.00	1/4 to 3/8	5 1/4	8

Sheet Snubbing Winches
CAST BRONZE



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	Chrom. Plated Each	Height Inches	Diam. Drum Inches	Diam. Base Inches	Weight Pounds
0	\$5.00	\$7.50	2 1/8	1	2 1/8	1
01	6.50	9.00	2 3/4	1 1/4	2 1/8	1 3/4

Ratchet Winches

POLISHED BRONZE—TOP ACTION

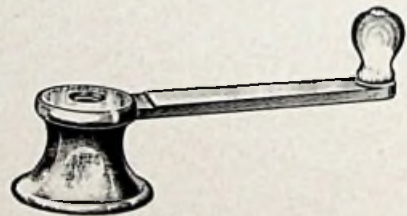


Fig. 800

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	28.60	6.05	1/2	3	4 1/4	6

Snipe Travelers

GALVANIZED IRON OR BRASS

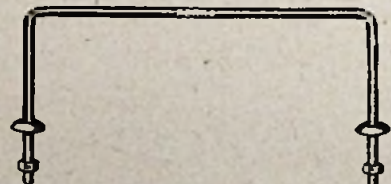


Fig. 271

No.	Galv. Each	Plain Brass Each	Size Inches	Height Above Deck Inches	Weight Pounds
1	\$1.75	\$2.50	3/8 x 18	6	1 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		
$\frac{1}{4}$	\$1.90	7 $\frac{1}{2}$	5 $\frac{1}{8}$	$\frac{9}{16}$	$\frac{9}{32}$
$\frac{3}{8}$	2.50	9 $\frac{1}{2}$	6	$\frac{1}{4}$	$\frac{1}{4}$

With check nuts, add \$.20 to each turnbuckle.

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 $\frac{1}{8}$	$\frac{3}{8}$	4
2	.85	1.35	10 $\frac{1}{2}$ x 1 $\frac{1}{8}$	$\frac{3}{8}$	6

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
$\frac{1}{4}$	\$2.00	\$.25	$\frac{1}{8}$	$\frac{1}{4}$
$\frac{3}{8}$	3.25	.25	$\frac{7}{16}$	$\frac{3}{8}$
$\frac{1}{2}$	4.75	.30	$\frac{1}{2}$	$\frac{3}{4}$
$\frac{3}{4}$	7.00	.45	$\frac{5}{8}$	1 $\frac{1}{2}$
$\frac{1}{2}$	8.00	.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
$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	17	12	18000

Finishing Plates

CAST BRONZE—FOR FIG. 143 CHAIN PLATE



Fig. 252

Plain Bronze Each	Polished Bronze Each	Length Inches	Width Inches	Weight Ounces
\$.35	\$.50	2	1 $\frac{1}{8}$	1

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 $\frac{1}{8}$
6	.55	2.35	1 x $\frac{1}{8}$
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

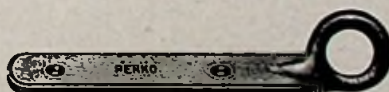


Fig. 568

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	\$1.70	$\frac{3}{4}$ x $\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{8}$
4	.65		$\frac{3}{8}$ x $\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{3}{8}$
5	.75	1.95	1 x $\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{4}$	$\frac{1}{2}$
6	.95	2.25	1 x $\frac{1}{4}$	$\frac{7}{8}$	$\frac{1}{8}$	$\frac{3}{4}$
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 $\frac{1}{8}$	$\frac{1}{8}$	1 $\frac{1}{2}$

Combination Release Hook and Turnbuckle

BRONZE



Fig. 1193

Plain Each	Size Thread Inches	Length Closed Inches	Opening in Jaw Inches	Weight Ounces
\$4.25	$\frac{3}{16}$	5	$\frac{1}{4}$	6

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
\$.60	1/8-3/16	4	7/8	2 1/2

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 1/2
1 3/4	1.95	3/4	1/4	5/8
2	2.00	3/4	1/4	3/4
2 1/4	2.15	3/4	3/8	7/8
2 1/2	2.25	3/4	3/8	1

"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 Diam. Rope Inches	Size Straps Inches	Diam. Bolt Inches	For Wood Thickness Inches	Wt. Each Lbs
47	\$.85	1/4	3/4 x 4	1/4	2	1/8
57	1.40	1/4	3/4 x 4	1/4	2 1/8	1/4

Galvanized Eye Bands

FORGED STEEL—HOT GALVANIZED



Fig. 426

Small sizes up to 2 1/2" diameter have bands 1/8" thick, larger sizes have bands 1/4" thick.

All sizes have bands 1 1/4" wide, all eyes are of 3/8" stock with 1 1/8" 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.

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 3/8	5

Belaying Pins

GALVANIZED MALLEABLE IRON OR BRONZE

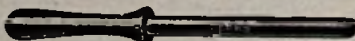


Fig. 386

Diam. Shank Inches	Galv. Each	Polished Bronze Each	Length Head Inches	Extreme Length Inches	Weight Each Pounds
3/8	\$.75	\$2.65	3	8	3/8
1/2	1.20	3.30	3 3/8	9 1/2	3/4
5/8	1.50	4.50	3 3/4	10 1/4	1
3/4	1.80	5.70	4 1/4	11	1 3/4

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 1/8	5	Atlantic
2	3.75	5 1/2 x 5 1/4	7	6 Meter

Mast Track and Slides

NICKEL SILVER

Slide

Track



Fig. 98

Fig. 99

Slides Fig. 98		Weight Per 100 in Lbs.
For Track Inches	Each	
$\frac{3}{8}$	\$.07	2 $\frac{1}{4}$
$\frac{7}{8}$	.10	2 $\frac{3}{4}$

Track Fig. 99		Weight 100 Feet in Lbs.
Size Inches	Per Foot	
$\frac{3}{8}$	\$.25	14 $\frac{1}{2}$
$\frac{7}{8}$	.34	23

Slides will fit any make of track of corresponding design and size.

Stock lengths of track are 8, 10 and 12 feet. All orders will be filled with lengths available to make up total number of feet ordered, unless specified otherwise.

New Masthead Sheave

LAMINATED PLASTIC
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.

Each	Diam. Inches	For Diam. Rope Inches	Thick-ness Inches	Diam. Bearing Inches	Weight Ounces
\$.50	1 $\frac{1}{4}$	$\frac{5}{16}$	$\frac{7}{16}$	$\frac{1}{4}$	$\frac{3}{4}$

Mast Hoops and Jib Rings

GALVANIZED WROUGHT STEEL



Fig. 849

MAST HOOPS

Size Inches	Per 100
$\frac{1}{4} \times 2$	\$11.00
$\frac{1}{4} \times 2\frac{1}{2}$	14.50
$\frac{1}{4} \times 3$	15.50
$\frac{1}{4} \times 3\frac{1}{2}$	20.00
$\frac{1}{4} \times 4$	24.00

JIB RINGS

Size Inches	Per 100
$\frac{3}{8} \times 1\frac{1}{2}$	\$15.00
$\frac{3}{8} \times 2$	16.00
$\frac{3}{8} \times 2\frac{1}{2}$	18.00
$\frac{3}{8} \times 3$	20.00
$\frac{3}{8} \times 3\frac{1}{2}$	26.00
$\frac{3}{8} \times 4$	32.00

Sizes are thickness of metal and inside diameter.

Masthead Sheaves

FOR MANILA ROPE
CAST BRONZE—PLAIN BEARING



Fig. 892

Diam. Inches	Each	For Rope Inches	Thickness Inches	Diam. Bearing Inches	Weight Ounces
1 $\frac{3}{4}$	\$.55	$\frac{5}{16}$	$\frac{7}{16}$	$\frac{1}{4}$	2 $\frac{1}{2}$
2	.55	$\frac{5}{16}$	$\frac{7}{16}$	$\frac{1}{4}$	3 $\frac{1}{2}$
2 $\frac{1}{4}$	.80	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{8}$	5 $\frac{1}{2}$

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

OPEN TYPE



Fig. 757

No.	Plain Bronze Each	Diam. Wire Inches	Width Inside Inches	Length Overall Inches	Weight Ounces	No.	Plain Bronze Each	Diam. Wire Inches	Jaw Opening Inches	Diam. Pin Inches	Length Overall Inches	Weight Ounces
00	\$.45	$\frac{3}{16}$	$\frac{3}{8}$	1 $\frac{3}{4}$	1	9	\$.75	$\frac{1}{16}$	$\frac{1}{4}$	$\frac{1}{4}$	1 $\frac{3}{4}$	1
0	.45	$\frac{3}{16}$	$\frac{3}{8}$	1 $\frac{3}{4}$	1	10	.75	$\frac{3}{32}$	$\frac{1}{4}$	$\frac{1}{4}$	1 $\frac{3}{4}$	1
1	.45	$\frac{1}{8}$	$\frac{3}{8}$	1 $\frac{3}{4}$	1	11	.75	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{4}$	1 $\frac{3}{4}$	1
2	.55	$\frac{9}{16}$	$\frac{1}{2}$	2 $\frac{1}{4}$	2	12	.90	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{3}{8}$	2 $\frac{1}{4}$	2 $\frac{1}{2}$
3	.70	$\frac{1}{4}$	$\frac{3}{8}$	2 $\frac{3}{4}$	3	13	.95	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	2 $\frac{3}{4}$	3 $\frac{1}{2}$
4	1.10	$\frac{9}{16}$	$\frac{3}{4}$	3	4 $\frac{1}{2}$	14	1.35	$\frac{5}{16}$	$\frac{1}{2}$	$\frac{1}{2}$	3 $\frac{1}{4}$	5
5	1.25	$\frac{3}{8}$	1	3 $\frac{1}{4}$	8	15	2.25	$\frac{3}{8}$	$\frac{5}{8}$	$\frac{3}{8}$	3 $\frac{1}{2}$	9

Stemhead Plate
CAST BRONZE—STREAMLINED



Fig. 343

Angle is 70 degrees.

Length Straps Inches	Extreme Width Inches	Diam. Center Hole Inches	Diam. Forward Hole Inches	Weight Ounces
3 5/8	1	5/16	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	Wt. Ozs.
1	\$2.00	\$2.75	5	1 1/2	5	12
2	3.25	4.00	7 3/4	1 3/4	8	28

Bob Stay Straps

CAST BRONZE



Fig. 303

No.	Plain Bronze Each	Pol. Bronze Each	Chrom. Plated Each	Metal in Eye Inches	Length Straps Inches	I. D. Eye Inches	Wt. Ozs.
1	\$.65	\$1.10	\$1.60	3/8	1 3/4	3/4	3 1/2
2	.85	1.40	2.00	1/2	2 5/8	3/8	5

Backstay Levers

CAST BRONZE

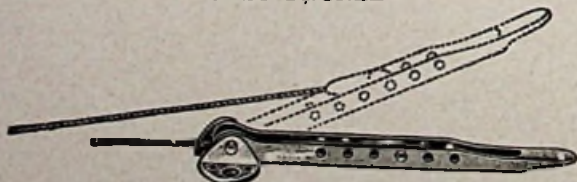


Fig. 1098

For quick release of backstay this fitting can't be beat. Turnbuckles are unnecessary. Complete with socket for 1/8 inch rigging. A set consists of fittings for port and starboard. Illustration shows 1/2 set.

Plain Per Set	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 5/16	1 1/2

Wind Pennants

ADJUSTABLE COUNTERBALANCE
ALUMINUM PENNANT—BRASS STANDARD

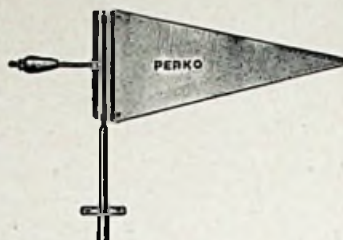


Fig. 435

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, 3/8" 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

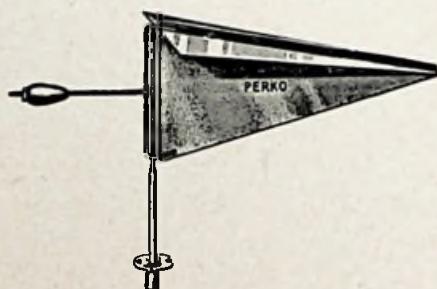


Fig. 837

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

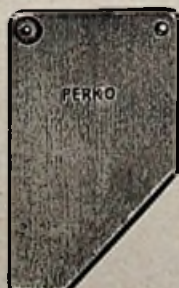


Fig. 134

Each	Size Inches	Weight Pounds
\$17.00	36 x 21 x 1 3/4	36



NEPTUNE PLASTIC SPECIALTIES FOR THE YACHTSMAN

On this and the following pages we illustrate a number of interesting items unique to the yachtsman, all of them very useful and desirable for all classes of boats, large or small.

Plastic materials have a definite and practical use on boats because of their ability to withstand hard use. They are impervious to salt water, do not corrode, mildew or rot. They do not attract marine organisms and are unaffected by oil or grease. If they become dirty, washing with soap and water usually does the cleaning job.

"Neptune" is pioneering the use of plastics in the marine field and new products will be added to our line as the demand increases and ability to produce the required items improves.

"Neptune" No-Chafe Mooring Sleeve

TOUGH—DURABLE—WATERPROOF
VINYLITE
WITH NON-CORROSIVE ZIPPER

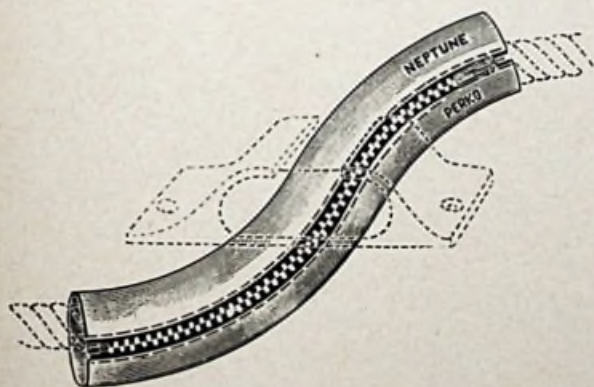


Fig. 165

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" Plastic Covered Wire Rope

FOR GUARDRAILS, RIGGING, MOORING
LINES ETC
LUSTROUS WHITE COLOR—VISIBLE AT NIGHT

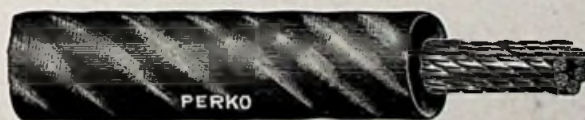


Fig. 163

A special Vinylite Plastic Covered Cable ideal for guardrail use. Wire cable is ¼ inch galvanized, covering increases outside diameter to ⅜ 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" Kapok Cushions

(PATENTS PENDING)

VINYLITE COVERED — WEATHERPROOF — COLORFUL DESIGNS

U. S. COAST GUARD APPROVAL B-354—SIZE 15"x15"

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 Flags"

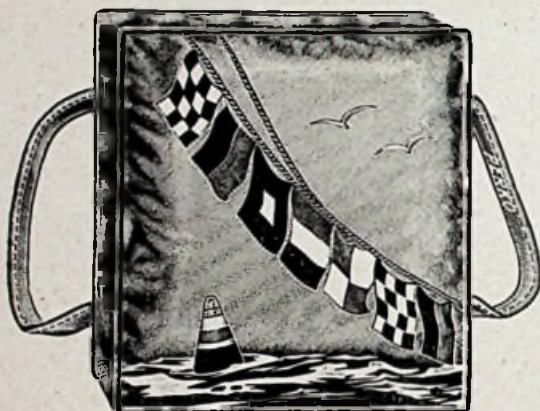


Fig. 192
Each \$5.50

"Boxing The Compass"

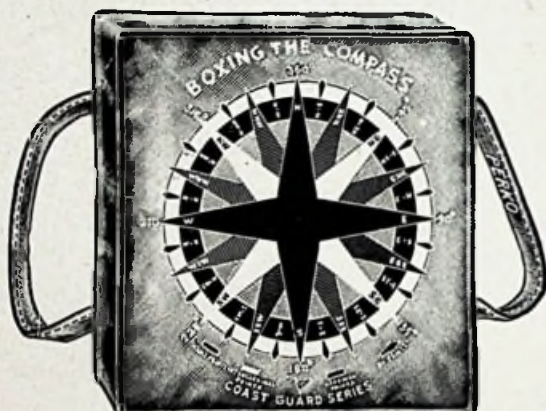


Fig. 193
Each \$5.50

"Storm Warnings"

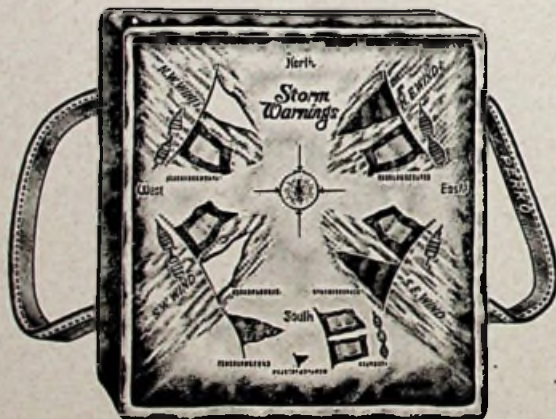


Fig. 196
Each \$5.50

"Buoys"



Fig. 212
Each \$5.50

NOTES

Coast Guard approved cushions are just as the name implies, primarily "Cushions" and to be used as such except if and when an emergency arises. They are not designed to be used as playthings in the water or at the beach. A dry approved cushion is always a dependable life preserver.

Cushions are packed 6 per carton, assorted designs if desired.

Neptune Plastic Cushions

(APPROVED)

VINYLLITE COVERED—WEATHERPROOF

SEE PAGE 172 FOR DETAILS

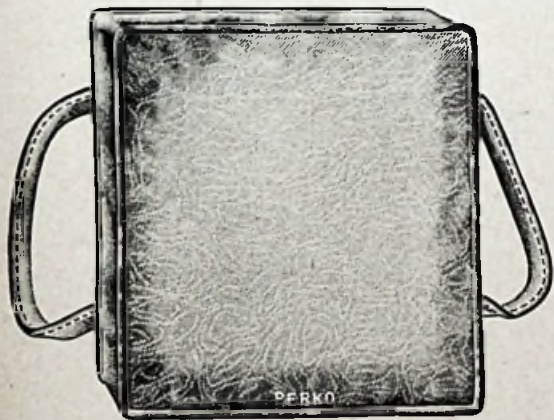
"Knots"



Fig. 201
Each \$5.50

Solid Color Cushions

VINYLLITE PLASTIC COVERED—APPROVED



BRILLIANT HIGHLY POLISHED FINISH

PASTEL SHADES FIG. 311

Solid color, delicately embossed with rich spanish grain effect. Colors are soft and subdued pastels, Ivory Chartreuse, Canary Yellow and deep Coral.

Each \$5.25

Be sure to specify color when ordering.

"Neptune" Plastic Ring Buoys

KAPOK FILLED

PLASTIC COVERED GRAB LINE

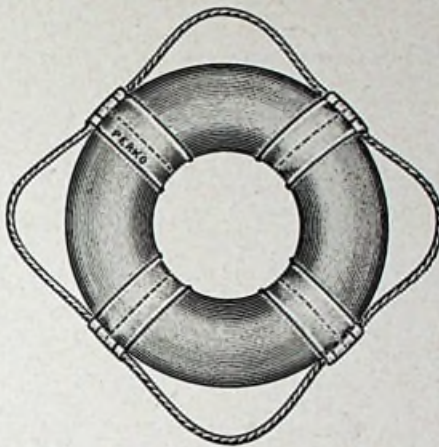


Fig. 179

Cover made of white vinylite sheeting filled with Kapok and sewed with nylon thread. 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 Diam. Inches	Each
15	\$8.60
17	9.85
19	10.90
21	12.75
24	13.75

- Fig. 197—All Red with White Piping Each \$5.25
- Fig. 198—All White with Red Piping 5.25
- Fig. 199—All Light Blue with Red Piping 5.25
- Fig. 300—All Dark Blue with Red Piping 5.25

LETTERING

Plastic coated decals for lettering the above ring buoys are shown and described on Page 176, Fig. 442.

NEPTUNE "FLOATWEAR" LIFE PRESERVER JACKET

(Patent Applied For)

A NEW AND REVOLUTIONARY TYPE OF FAIR AND FOUL WEATHER CLOTHING
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



Foul Weather Hat
Fig. 494



Keeps Head and Shoulders
From Being Submerged.

Simply inflate the convenient quick action valve before entering the water or while in the water.

FAIR WEATHER JACKET—Fig. 464

A well fitting and comfortable jacket, but concealed in the collar and front is an ingenious vinyl plastic bladder, designed to keep one afloat properly. Made of "Flightex" sailcloth, closely woven, lightweight, windproof, and water repellent. Ideal for boating, fishing, hunting, and general sports use.

Rust-Tan color—Small, Medium or Large
Fair Weather Jacket, each \$26.75
Cap to match, adjustable head size, each \$2.95

"FOUL WEATHER" TWO PIECE SUITS—Fig. 465

Instead of heavy non-floatable oil skins to keep you dry only, this "Foul Weather" suit keeps one both dry and safe. Made of special vinylite plastic coated material completely waterproof, comes in high visibility yellow or an attractive white. Gives full protection from wind, rain and snow. Has vinyl plastic bladder in collar and front.

Small, Medium, or Large
Complete with trousers, per suit \$29.75

"FOUL WEATHER HAT"—Fig. 494

Really a rain "Parka" with visor to keep rain out of your eyes, and with a back drop to keep rain or spray out of your collar. Gives head and neck full protection, has a stiff brim and draw string neck piece.

Yellow or White—Small, Medium or Large
Each \$3.95

NOTE—The "Foul Weather" clothing is designed to be worn over other clothing and, therefore, is purposely made a little larger than normal and to allow room for freedom of motion and full comfort. Because of the necessary looseness of this clothing size designations by number are difficult to give accurately, but for general purposes and guidance the following data is given. "Small" sizes 34 to 36 inclusive. "Medium" sizes 38 to 40 inclusive. "Large" sizes 42 to 44 inclusive.

SEE OPPOSITE PAGE FOR ADDITIONAL INFORMATION



NEPTUNE FLOATWEAR

(SEE PAGE 174)

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.

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" Anchor Cable Depth Markers

TOUGH—DURABLE WATERPROOF
VINYLITE
NUMBERS CANNOT WASH OFF
RED NUMERALS ON YELLOW MARKERS

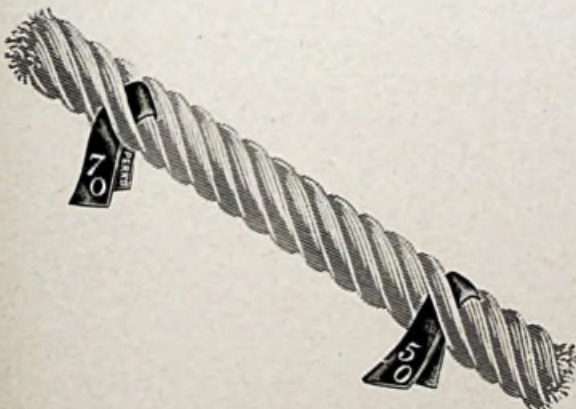


Fig. 164

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" Plastic Boat Fenders

VINYLLITE 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 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 Per Dozen	Figures Per Dozen
2	\$1.20	\$1.20
3	1.80	1.80
4	2.40	

Packed one dozen of each letter or figure per package.

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.

	Per Sq. Ft.
Medium Gauge, .012 inches thick	\$.60
Heavy Gauge, .030 inches thick	.70

Supplied only in 2½ yard rolls, 42 inches wide.



"Neptune"

Aids to Safer Navigation

LAMINATED VINYLITE—WATERPROOFED
COPYRIGHTED

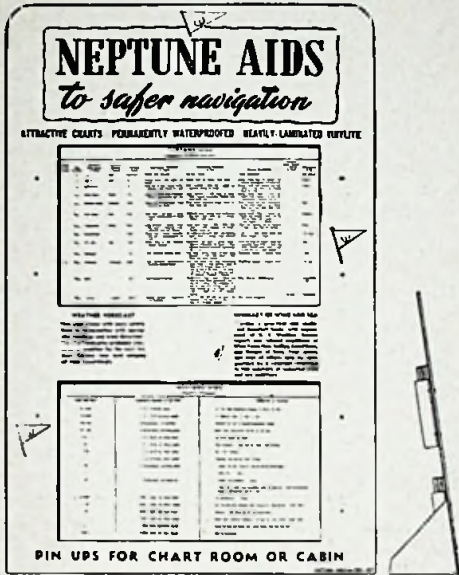


Fig. 166

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" Marked Lead Lines

WITH VINYLITE PLASTIC MARKERS
1-INCH CIRC. ITALIAN HEMP LINE

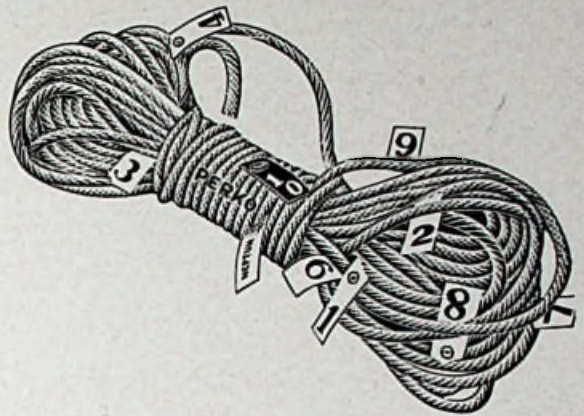


Fig. 190

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 hereafter.

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.

Weight	Per Pound
2 to 5 Pounds.....	\$.50
6 to 14 Pounds.....	.48
15 to 50 Pounds.....	.47

Larger sizes furnished to order.

"Neptune" Mooring Pennants

PATENT APPLIED FOR
ENTIRELY COVERED WITH WHITE
VINYL PLASTIC

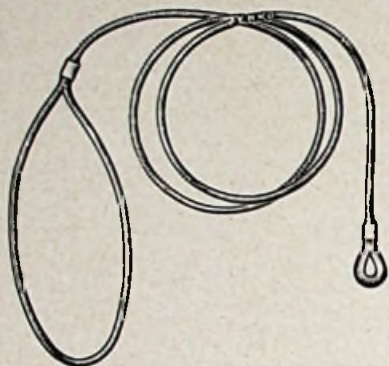


Fig. 167

A really tough and long-lasting new type of mooring pennant with distinct advantages:

GALVANIZED IMPROVED PLOW STEEL

Diam. Inches	Each	Assembled Length	Bearing Strength Pounds	For Boat Up To	Wire Construction
5/16	\$16.25	10 feet	9100	25 feet	7x19
7/16	21.75	10 feet	17700	35 feet	7x19
1/2	27.25	12 feet	23000	45 feet	7x19
5/8	32.50	12 feet	29000	55 feet	7x19

- (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 Dish Washer

PLASTIC CELLULOSE SPONGE MATERIAL
ROUNDED SPONGE—WOOD HANDLE

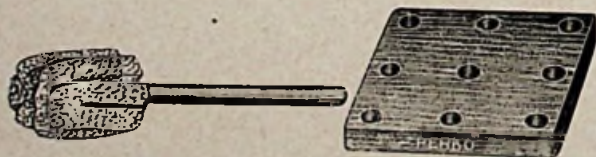


Fig. 210

Display Stand

Does a more effective job of washing glasses and dishes. Keeps the hands out of briny salt or soapy dish water. Each, \$.49.

Display stand (for 9 sponges) Each, \$.25.

Free with orders for 6 dozen sponges.

Improved "Neptune" Pressure Boat Swab

PLASTIC CELLULOSE SPONGE MATERIAL
RESISTANT TO SALT WATER, OILS, GREASE,
GASOLINE AND KEROSENE



Fig. 443

Improved with larger sponge, more rugged holder. 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.

To wring out, just step on it, or press out with hands.

Complete with handle, each \$3.95.

"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.

Each \$1.25



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