



Perkins Marine Lamp And Hardware Corp.

(Incorporated 1917)

1943 Pitkin Ave., Brooklyn, N. Y.

Manufacturers of

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

Catalog No. 85



Branch Offices

344 SACRAMENTO ST. SAN FRANCISCO, CAL.

1027 MAGAZINE ST. NEW ORLEANS, LA. 1802 BAYARD PLACE JACKSONVILLE, FLA. 35 BROOKVALE ST. BOSTON, MASS.

303 WASHINGTON MUTUAL BLDG. SEATTLE, WASH.

PRINTED IN U. S. A.

COPYRIGHTED 1938 BY PERKINS MARINE LAMP AND HARDWARE CORP.

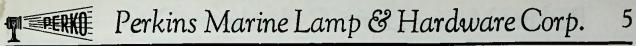
FOREWORD AND GENERAL INFORMATION

-IIXXXII-

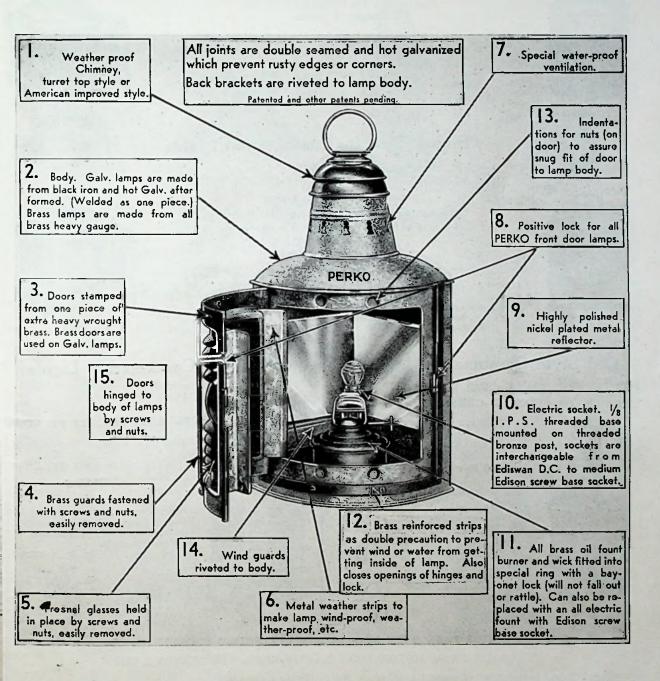
This catalog presents our full line of marine equipment to date, and has been arranged for convenient reference by grouping the material according to its application in the marine field. We have added a number of new items to our fast growing line which are shown in this catalog. We have made tremendous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

PRICES AND TERMS	Prices in this catalog are subject to change without notice and are all F. O. B. New York, unless quoted otherwise. Terms are 30 days net; 2% if payment is sent 10 days from date of invoice.
GUARANTEE	Every item bearing our trade-mark is guaranteed free from defects at time of shipment. In case of defect, adjustments will gladly be made, provided the material is returned to our factory and repairs have not been attempted by other than our own workmen.
RETURN GOODS	Material made to order is not returnable. Stock material is only returnable when permission has been granted by us, and is subject to a 10% handling charge.
WEIGHTS	The weights given in this catalog are not guaranteed, but have been carefully determined and should be sufficient for general purposes.
RATING	Orders from firms unknown to us and having no satisfactory commercial rating must be accompanied by cash or satisfac- tory references. C. O. D. shipments will be made if a 25% deposit is sent with order.
SHIPPING INSTRUCTIONS	Customers should send specific shipping instructions. But if this is not done, we will use our own judgment in selecting route.
EXPORT ORDERS	We are thoroughly familiar with the proper methods of han- dling orders and shipments to all parts of the world, and guar- antee to do so to your satisfaction.
	CCIA A 259221 50-

FEB 17 1938



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



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

"Perko" De-Lite Combination Lights

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

Green Lens for Starboard, Red Lens for Port

Height, less ring, 9% inches Measurements of base, 5 inches x 51/2 inches Size of lens, 3% inches x 3% inches Weight, 3 pounds

FIG. 0-1

Each

\$6.75

Polished

Brass Each

\$6.50

Polished Brass Galvanized Each \$5.50

Chromium Plated Each \$8.00

"Perko" De-Lite Combination Lights

Nickel Plated

Each

\$7.25

FLAT TOP ELECTRIC ONLY-DOUBLE CONTACT SOCKET

Height, less ring, 61/2 inches Measurements of base, 5 inches x 51/2 inches Size of lens, 3% inches x 3% inches Weight, 2½ pounds

FIG. 0-10

Galvanized Each \$5.00

Nickel Plated Each \$7.00

Chromium Plated Each \$8.00

(Opened)

Old Style Combination Lights

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

Fig. 1

Height less Ring, 9 inches.

Meas. of Base, 4% x4½ inches.

Size of Lenses, 3%x3% inches.

Weight, 3% pounds.

Galvanized Each Oil or Elec. Only \$4.25 Oil and Electric. 4.50

Polished Brass Each \$5.75 6.00

WITH RED AND GREEN LENSES

Height less Ring, 6¼ inches. Meas. of Base, 4¾ x4½ inches. Size of Lenses, 3¾ x3% inches. Weight, 2 pounds.

alvanized Each \$4.00	

G

Old Style Combination Lights

FLAT TOP

FOR CLASS 1 BOATS-LESS THAN 26 FT. LONG ELECTRIC ONLY-DOUBLE CONTACT SOCKET

> Polished Brass Each \$5.50

Fig. 3

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$.50 EACH EXTRACT FROM MOTOR BOAT LAW IN EFFECT DECEMBER 1, 1936

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

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

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









(Closed)



Perkins Marine Lamp & Hardware Corp. PERKA

"Perko" De-Lite Stern and Anchor Lights

TURRET TOP-BOLTED GUARDS

All guards are made of heavy brass wire securely fastened to body by bolts, easily removed to replace broken lens.

FOR CLASS 1 BOATS-LESS THAN 26 FEET LONG

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





Weight Each Pounds

2

Fig. 0-2

Fig. 735

Height Leas Ring Inches 85%	Diam. Base Inches 41/2	Lens
	c	LEAR LENS
	OIL OR	ELECTRIC ONLY

Galv. Each \$3.25	Polished Brass Each \$4.50	Polished Copper Each \$8.00	Nickel Plated Each \$5.00	Chromlum Plated Each \$5.50
Galv. Each \$3.50	OIL AND Pollshed Brass Each \$4.75	ELECTRIC Polished Copper Each \$8.25	COMBINE Nickel Plated Each \$5.25	ED Chromium Plated Each \$5.75

With Red, Green, or Blue Lens add \$1.00 each.





Size of

7

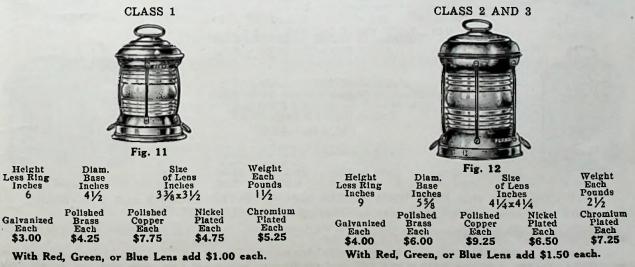
Height Less Ring Inches Weight Each Base Inches Lens Inches Pounds 1134 55% 3 41/4×41/4 CLEAR LENS OIL OR ELECTRIC ONLY Polished Chromium Plated Each Pollshed Nickel Plated Copper Each Galv. Each Brass Each \$6.75 \$4.25 \$6.25 \$9.50 \$7.50 OIL AND ELECTRIC COMBINED Nickel Plated Pollshed Polished Chromium Galv. Each Brass Each Copper Each Plated Each \$9.75 \$7.00 \$4.50 \$6.50 \$7.75

Diam.

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

"Perko" De-Lite Stern and Anchor Lights

FLAT TOP-BOLTED GUARDS ELECTRIC ONLY-DOUBLE CONTACT SOCKETS



ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$.50 EACH

Perkins Marine Lamp & Hardware Corp.

"Perko" De-Lite Side Lights

TURRET TOP

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

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



8

(Closed)



(Closed)



(Closed)



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

FIG. 0-4

Polished

Brass Per Pair

\$11.00

Galvanized Per Pair \$8.50 Nickel Plated Per Pair **\$12.00**

Chromium Plated Per Pair \$13.00

"Perko" De-Lite Bow Lights

CLASS 2-OIL AND ELECTRIC

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

A. A.	Galvanized Each	Pollshed Brass Each	Nickel Plated Each	Chromium Plated Each	1
With clear lens	\$4.25	\$5.50	\$6.00	\$6.50	
With colored lens	5.25	6.50	7.00	7.50	

"Perko" De-Lite Side Lights

FLAT TOP—CLASS 2 ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Height, less ring, 7¼ inches Measurements of base, 5¼ inches x 5¼ inches Size of lens, 4¼ inches x 4¾ inches Weight, per pair, 5½ pounds

FIG. 0-40

Galvanized Per Pair	Polished Brass Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair
\$8.00	\$10.50	\$12.00	\$13.00
(D)		D	2 ml + -

Perko" De-Lite Bow Lights FLAT TOP—CLASS 2

ELECTRIC ONLY-DOUBLE CONTACT SOCKET

Height, less ring, 7% inches Measurements of base, 5 inches x 5½ inches Size of lens. 4¼ inches x 6½ inches Weight, each, 2% pounds

FIG. 0-50

PLIED	With clear lens	Galvanized Each \$4.00	Polished Brass Each \$5.25	Nickel Plated Each \$6.00	Chromium Plated Each \$6.50	EASS 2' BOW
(Closed)	With colored lens	5.00	6.25	7.00	7.50	(Opened)

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$.50 EACH Every motor boat of class 2 shall carry the following lights:

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

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



(Opened)







(Opened)





Perkins Marine Lamp & Hardware Corp.

"Perko" De-Lite Side Lights

TURRET TOP FOR CLASS 3 BOATS-40 FEET OR OVER AND NOT MORE THAN 65 FEET IN LENGTH

OIL AND ELECTRIC



Size of lens, 5¼ inches x 5% inches Height, less rings, 124 inches Measurements of base, 5% inches x 5% inches Weight, per pair, 8 pounds

"Perko" De-Lite Bow Lights TURRET TOP CLASS 3-OIL AND ELECTRIC

Size of lens, 5¼ inches x 7¾ inches Height, less ring, 12¼ inches Measurements of base, 5½ inches x 6½ inches Weight, each, 4 pounds

FIG. 0-9

Polished

Brass Per Pair

\$14.70

FIG. 0-8

Galvanized Iron Per Pair \$10.50

Nickel Plated Chromium Plated Per Pair Per Pair \$15.50 \$17.00



9

(Opened)



(Opened)

Plated

Each

\$8.50

Chromium Plated Per Pair

\$16.50

9.50



(Opened)



(Opened)

(Closed)

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$.50 EACH Every motor boat of class 3 shall carry the following lights:

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

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



PERKO





(Closed)



Nickel Plated Each Iron Each Brass Each \$5.25 \$7.75 With clear lens \$7.35 With colored lens 6.25 8.35 8.75

Galvanized

"Perko" De-Lite Side Lights FLAT TOP-CLASS 3

Polished

ELECTRIC ONLY-DOUBLE CONTACT SOCKET

Size of lens, 5¼ inches x 5% inches Height, less ring, 8½ inches Measurements of base, 5% inches x 5% inches Weight, per pair, 7 pounds

Nickel Plated Per Pair

\$15.00

FIG. 0-80 Pollshed Galvanized Brass Per Pair Iron Per Pair \$10.00 \$14.00

"Perko" De-Lite Bow Lights FLAT TOP-CLASS 3

ELECTRIC ONLY-DOUBLE CONTACT SOCKET

Size of lens, 5¼ inches x 7¾ inches Height, less ring, 8½ inches Measurements of base, 5½ inches x 6¼ inches Weight, each, 4 pounds

FIG. 0-90

	With clear lens With colored lens	Galvanized Iron Each \$5.00 6.00	Polished Brass Each \$7.00 8.00	Nickei Plated Each \$7.50 8.50	Chromium Plated Each \$8.25 9.25
(basel)	with colored tens				

Old Style Class 2 Side Lights

BOTTOM OPENING-SPRING FOUNT FOR BOATS 26 to 39 FEET LONG INCLUSIVE



Size of Lenses, 41/1x41/4" Extreme Height, 101/4" Measure of Base, 41/x51/3" Weight, per pair, 51/2 lbs. Galvanized

Oil or Elec. Only \$6.50

Oil and Electric_ 7.00

Per pair

Pollshed Brass Per pair \$9.00 9.50

Fig. 17

Old Style Class 3 Side Lights

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



Size of Lenses, 51/x55/"

Extreme Height, 121/2"

Meas. of Base, 5x61/4"

Weight, per Pair, 71/2 lbs.

Galvanized Per pair Oil or Elec. Only \$8.50 Oil and Electric 9.00

Pollshed Brass Per pair \$12.70 13.20

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, 44x434" Extreme Height, 7¹/₄" Measure of Base, 4³/₄ x5¹/₂" Weight, per Pair, 5½ lbs.

CLASS 3

Size of Lenses, 54x5%" Extreme Height, 8½" Measure of Base, 5x6¼" Weight, per Pair, 7½ lbs.

	Fig. 4	-		
Class 2 3	Galvanized Per Pair \$6.00 8.50	Polished Brass Per Pair \$ 8.50 12.70	Nickel Plated Per Pair \$10.00 14.00	Chromium Plated Per Pair \$11.00 15.50

Old Style Class 2 Bow Lights

BOTTOM OPENING-SPRING FOUNT

FOR BOATS 26 to 39 FEET LONG INCLUSIVE



Size of Lens, 41/x61/1" Extreme Height, 10½" Measurement of Base, 4½x5" Weight Each, 3 lbs.

WITH CLEAR LENS

		anized	Polished Brass Each
	or Elec. Only	\$3.25	\$4.50
Oil	and Electric	3.50	4.75

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

Fig. 18

Old Style Class 3 Bow Lights

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

> Size of Lens, 51/4x51/2" Extreme Height, 12¹/₂" Meas. of Base, 5¹/₂x6¹/₄" Weight Each, 3¹/₂ lbs.

WITH CLEAR LENS

Pollshed
Brass
Each
\$6.35
6.60

With Red, Green, or Blue Lens Add \$1.50 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, 4¼x6½" Extreme Height, 7¼" Measurement of Base, 4½x5" Weight Each, 3 lbs.

CLASS 3

Size of Lens, 54x51/2" Extreme Height, 8½" Measurement of Base, 5½x644" Weight Each, 34 lbs.

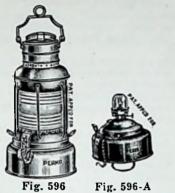
- Fi	g. 5			
	Galvanized	Polished Brass	Nickel Plated	Chromium Plated
Class 2	Each \$3.00	Each \$4.25	Each \$5.00	Each \$5.50
3	4.25	6.35	7.00	7.75
Class	2 with Red,	Green, or	Blue lens add	\$1.00 each-
Class	3 with Red.	Green, or	Blue lens add	\$1.50 each-

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$.50 EACH



10 Day Anchor Lights

OIL BURNING-IMPROVED



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

Extreme Height Inches 14	Dlameter Fount Inches 7	Size of Lens Inches 4¼ x 4¼	Weight Lbs. 4
	CLE	AR LENS	
		Galvanized Each	Polished Brass Each
Fig. 596, La	mp Complete		\$12.50
	Fount Complet		7.00
	Without Four		8.00

With Red, Green, or Blue Lens add \$1.50 each. For Burners and Chimneys only, see Figs. 245 and 272.

Western Trap Lantern

OIL BURNING WITH 8 DAY CAPACITY OIL FOUNT



Fig. 14

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

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

With	With	Extreme	Diam.	Size
Clear Lens	Colored Lens	Height,	Bottom	Lens
Each	Each	Inches	Inches	Inches
\$42.00	\$47.00	22	93/4	7x8

Colored Lenses are Red, Green or Blue

Oil Fount complete with gears and burner \$18.00 each

30 Day Anchor Light

ELECTRIC-DRY BATTERIES POLISHED COPPER



Fig. 13

Uses four ordinary 1½ volt dry cell batteries, en-closed in a water and air tight container sealed with a gasket and bolts.

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

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

No. 1 2	Extreme Height Inches 16½ 18	Diameter Base Inches $6\frac{1}{2}$ $6\frac{1}{2}$	Size of Lens Inches 4 ¹ / ₄ x 4 ¹ / ₄ 5 ³ / ₈ x 6	Weight Pounds 5½ 8½
		CLEAR	LENS	
No.	Without Batterles Each \$15.00		With Batteries Each \$18.50	Bulbs Only Each
2	26.00		29.50	\$.50

No. 1 with Red, Green, or Blue lens add \$1.50 each. No. 2 with Red, Green, or Blue lens add \$2.50 each.

Sail Boat Side Lights

SPECIAL SMALL SIZE

FOR CLASS 1 BOATS-LESS THAN 26 FT. LONG



	i 1 sail
poats in use on which side light	ts of a
small size to burn oil are desired	d.

Size of	Extreme	Diam. of	Weight
Lens	Height	Base	Per Pair
Inches	Inches	Inches	Pounds
3 3/8 x 3 7/8	9	4 ¹ /4	4

Fig.	845
------	-----

				Per Pair	Pol. Drass Per Pair
Oil	Only		-		\$8.50
				7.00	9.50
Ela	tric	Only_Flat	Ton	5.00	7.50

Royal Combination Lights HEAVY GALVANIZED IRON AND BRASS ELECTRIC ONLY

FOR CLASS 1 BOATS



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

N.	Height Inches	Width Inches	Size Lens Inches	Weight Lbs,
	334	44	3 % x 3 %	1%
B	Galvani Each \$3.5	1	Polished Brass Each \$4.00	Chromium Plated Each \$5.00

Fig. 89

Royal Side Lights

ELECTRIC ONLY FOR CLASS 1, 2 AND 3 BOATS Same construction as above.

	Dance	, com	Int acout		
	Class 1	Heigh Inches	3%	x 2 %	Weight per Pair Lbs. 1½
	Class 2	5	4 %	x 4 ¾	2
- ALL - AL	Class 3	6	51/4	x 5%	3
			Galv. Per Pair	Pol. Brass Per Pair	Chrom. Plated Per Pair
	Class 1		\$4.50	\$6.50	\$ 8.50
	Class 2		4.75	6.75	8.75
Fig. 91	Class 3		6.00	8.00	10.00

Royal Bow Lights

ELECTRIC ONLY

FOR CLASS 1, 2 AND 3 BOATS

Same construction as above.

	Class 1 Class 2 Class 3	Height Inches 4 5 6	Size Lens Inches 3 % x 5 ½ 4 ¼ x 6 ½ 5 ¼ x 7 ¾	Weight Each Lbs. 1 1½ 2
Fig. 92	Class 1 Class 2 Class 3		h Each 25 \$3.25 40 3.40	Chrom. Plated Each \$4.25 4.40 5.00

Royal Stern Lights ELECTRIC ONLY

FOR CLASS 1, 2 AND 3 BOATS

	Class 1 Class 2 or 3	Height Inches 4½ 3 5½	Size Lens Inches 3 % x 3 3 4 % x 4 %	Lbs. 11/4
Fig. 90	Class 1 Class 2 or	Galv. Each \$2.50 3 3.50	Pol. Brass Each \$3.50 4.50	Chrom. Plated Each \$4.50 5.50

Battery Running Lights

WITH FRONT DOORS GALVANIZED AND BRASS

These are self contained marine running lights using the regular easily obtained lantern battery such as Eveready No. 409 or Ray-O-Vac No. 941 or Burgess No. F-4-H.

The bulbs are heavy duty radio panel bulbs guaranteed for 300 to 1000 hour life and easily obtained in most radio supply stores.

With these lights aboard, all wiring or draining of storage battery is eliminated. None of the usual bother with oil lights, etc.

The construction and appearance is the same as standard flat top marine lights, with a waterproof hinged door on the front for quick changing of bulb or battery. No screws to remove, just open the door and make the change.

Furnished with brass nickel plated reflector, toggle switch with watertight cover and bulb, batteries extra.



15.50

ĩ

11.50

Class 2 3	Height Inches 71/4 81/2	Size Base Inches 51/8x51 55/8x55	/8 4	Size Lens Inches 1/4 x 4 3/4 1/4 x 5 5/8	Weight Per Pair With Batterles Pounds 8 10
Class 2	Galvanized Per Pair \$ 9.50	Polished Brass Per Pair \$12.00	Chromiun Plated Per Pair \$15.00	Only Eacl	Ouly

Bow Lights FOR CLASS 2 AND 3 BOATS

18.50

.50

.80



Class 2 3	Height Inches 71/4 81/2	Siz Base Inch	$\frac{1}{2}$ 4	Size Lens Inches 1/4 x 6 1/2 1/4 x 7 3/4	Weight Each With Battery Pounds 4 5
Class 2 3	Galvanized Each \$4.75 5.75	Polished Brass Each \$6.00 7.75	Chromium Plated Each \$7.50 9.25	Bulbs Only Each \$.50	

NEW IMPROVED BATTERY LIGHTS

WITH IMPROVED TOGGLE SWITCH

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

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

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

WITH BACK BRACKET





Back view with

Fig. 1010

Galvanized

\$4.50

Class

2

Cla

Door removed

Polished	Chromium
Brass	Plated
Each	Each
\$5.25	\$6.25
	+++

Height Width Inches Inches 41/8





WITH DECK BRACKET

Fig. 15 Pollshed

Brass Each

\$5.75

Chromium Plated

Each

\$6.75

Height Inches 51/2

Galvanized

Each

\$5.00

2



FOR CLASS 1 AND 2 BOATS



\$7.50

8.00

T

Back view with Fig. 1011 Door removed Polished Brass Per Pair Size Chromium Height Inches Galvanized Per Pair Plated Per Pair Lens Inches \$9.00 \$11.00 4 33/8×37 4x43 9.50 11.50 5

Bow Lights

FOR CLASS 1 AND 2 BOATS



	Fig. 1012		1000	1 iemo		
88	Each \$3.75	Brass Each \$4.50	Plated Each \$5.50	Inches 4	Lens	

Stern Lights



Chromlum Plated Each Pollshed Size Brass Each Height Inches Lens Weight Lbs. Class \$6.25 /8x31/2 2 \$5.00 6 634 23/4 41/4x4 6.50 8.00



Trouble Light NICKEL PLATED BRASS BODY-WOOD HANDLE

Fig. 389

Has 3 inch diameter magnifying lens and double contact socket-furnished complete with switch, 21 C. P. bulb 6 volt, 10 ft. wire and plug.

Length overall, 10 inches, Each

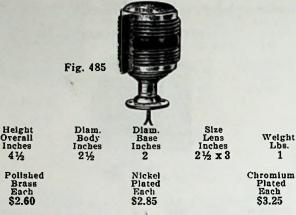
\$3.00

All above prices do not include batteries-batteries used are the regular flashlight type, available at all hardware stores.

COMBINATION LIGHTS—ELECTRIC

FOR OUTBOARD MOTOR BOATS AND SMALL RUNABOUTS UP TO 16 FEET LONG INCLUSIVE

Wrought Brass Type FOR PERMANENT MOUNTING Complete with red and green fresnel lenses and double contact electric socket.



Wrought Brass Type FOR TEMPORARY MOUNTING

WITH REMOVABLE BRACKET

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



Streamline Pattern WITHOUT REBULBING FEATURE CAST BRONZE

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



Height Inches 31/8

Polished Bronze \$5.00

Nickel Plated Each \$5.50



Streamline Pattern

WITH REBULBING FEATURE

CAST BRONZE

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

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



Height Inches Base Inches 3% x 5% Fig. 512 Lens Inches 21/2 x 3

Flagpole Socket Inch Weight Lbs. 1%

Polished Bronze Each \$5.50

31/8

Nickel Plated Each \$6.00

Chromium Plated Each \$6.50

Streamline Pattern

WITH CLEAT AND REBULBING FEATURE CAST BRONZE

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





Rear view showing method of changing bulb

Height Inches 31/8	Base Inches 3% x 5%	Lens Inches 2½ x 3	Flagpole Socket Inches %	Length Cleat Inches 2 1/s	Wt. Lbs. 2
Polishe Bronze Each \$5.50	e	Nickel Plated Each \$6.00	1200	P	omium lated Each 6.50

Rear view showing method of changing bulb

‰

PERKO

Perkins Marine Lamp & Hardware Corp. 15

COMBINATION LIGHTS—ELECTRIC

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

Streamline Pattern

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

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



Ваве

Inches

4 % x 8



Rear view showing method of ng bulb

Fig. 598

Height Inches 3 3/4 Polished Bronze Each \$6.50

Lens Inches 2½ x 3 Nickel Plated

Each

\$7.00

Inch 5/8 21/2 Chromium Plated Each \$7.50

Welght

Lbs.

Flagpole Socket

Streamline Pattern

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

Contains our popular flush type rebulbing feature, absolutely watertight.

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

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

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



Streamline Pattern

WITHOUT REBULBING FEATURE FOR RUNABOUTS 16 TO 20 FEET LONG CAST BRONZE Same style and size as Fig. 598, except that bulb is changed by removing lamp from the deck.



Polished Bronze Each \$6.00

Chromium Plated Each \$7.00

\$6.50 **Combination Light and Bitt**

Each

CAST BRONZE—ELECTRIC FOR CLASS 1 BOATS—18 TO 25 FEET LONG





Fig. 502

One piece casting with removable top for rebulbing. Flag pole socket in top, furnished with red and green fresnel lenses and double contact socket.

Height Inches 4%	Diam. Base Inches 6½	Size Lens Inches 3% x 3%	Flagpole Socket Inches 1¼	Weight Lbs. 5½
Polished Bronze Each \$10.00		Nickel Plated Each \$10.75		Chromium Plated Each \$11.50

Bow Light and Bitt CAST BRONZE-ELECTRIC FOR CLASS 2 BOATS-26 TO 39 FEET LONG





Fig. 503 Same construction as Fig. 502 above. Equipped with clear fresnel lens and double contact socket.

Height Inches 6½ Polished Bronze Each	Diam. Base Inches 71/4	Size Lens Inches 4 1/4 x 6 1/2 Nickel Plated Each	P	Weight Pounds 8 omlum lated
\$10.00		\$10.75		Cach 12.00

Streamline Side Lights

FOR CLASSES 1, 2 AND 3 BOATS CAST BRONZE

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

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



Fig. 563

Class I 2 3	Height Inches 4 1 4 5 1/8 6	Length Inches 6 71/2 91/4	Size Lens Inches 3 3/8 x 3 7/8 4 1/4 x 4 3/4 5 1/4 x 5 5/8	Weight Per Pair Lbs. 3 5 7
Class I 2 3	Polished Bronze Per Pair \$10.00 12.00 18.00		Nickei Plated Per Pair \$11.00 13.00 20.00	Chromium Plated Per Pair \$12.00 14.00 20.50

Streamline Bow Lights

WITH REBULBING FEATURE FOR CLASSES 1, 2 AND 3 BOATS CAST BRONZE

Furnished with clear fresnel lens and double contact electric socket.

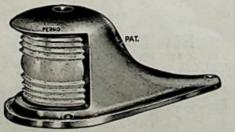


Fig. 561

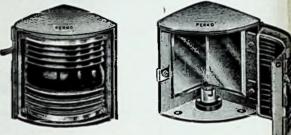
Class 1 2 3	Height Inches 4 ³ / ₈ 5 6 ³ / ₈	Base Inches 5 x 8!/2 55% x 97% 67% x 3	Lens Inches 3 3/8 x 5 1/8 4 1/4 x 6 1/2 5 1/4 x 7 3/4	Weight Pounds 4 4 3/4 8 3/4	Flagpole Socket Inches 7/8 I J
Class l 2 3		Polisbed Bronze Each \$ 9.00 11.00 16.00	Nickel Plated Each \$10.00 12.00 17.50		Chromium Plated Each \$10.00 12.25 17.50

De-Lite Side Lights

WITH FRONT DOORS FOR CLASSES 2 AND 3 BOATS CAST BRONZE

A quick change of bulb or lens is assured. Lens are fastened in doors by brass straps and machine screws, doors have positive latch which cannot wor loose due to vibration or wind. Furnished in pairs, with red and green fresnel lens

and double contact or standard screw sockets.



Closed Fig. 504

Open

Class 2 3	Height Inches 51/7 6	Angle Inches 3 3/4 x 3 3/4 4 x 4	Lens Inches 41/4x43/4 51/4x55/8	Weight Per Pair Lbs. 6½ 8
Class 2 3	Br Per \$1	ished onze Pair 0.00 3.00	Nickel Plated Per Palr \$11.00 14.00	Chromium Plated Per Pair \$12.00 15.50

Double contact sockets furnished unless otherwise specified

With clear lens, Class 2 and 3, add \$1.00 per pair

De-Lite Bow Lights WITH FRONT DOORS FOR CLASSES 2 AND 3 BOATS CAST BRONZE

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



		T	000	
99	Height	Width	Lens	Weight
	Inches	Inches	Inches	Lbs.
	5½	51/2	41/4 x61/2	31/4
	6½	6	51/4 x7 3/4	41/4
59	Polished		Nickel	Chromium
	Bronze		Plated	Piated
	Each		Each	Each
	\$5.00		\$5.50	\$6.00
	6.50		7.00	7.75

Fie 505

Cla 23

Cla

Double contact sockets furnished unless otherwise specified

With Red or Green Lens, Class 2 and 3, add \$.50 Each

1938 CATALOG NO. 85

Perkins Marine Lamp & Hardware Corp. 17

NEW REGULATION LIGHTS FOR_OIL BARGES AND TANKERS

WATERPROOF—SELF CONTAINED BATTERY TYPE—WATERPROOF SWITCH

New regulations are being drawn up by the U. S. Department of Commerce, Bureau of Marine Inspection and Navigation, which will require the use of self contained running lights on river oil carriers, tankers and barges. The following lights have been inspected and passed by the above Bureau and meet all of the specifications.

Loading and Anchor Lights

360 DEGREE CLEAR OR RED LENS

1121/2 DEGREE LENSES-10 POINTS OF COMPASS GREEN FOR STARBOARD-RED FOR PORT

Side Lights

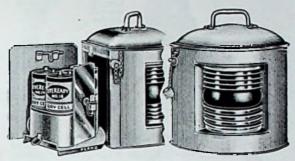


Fig. 1008

Uses four ordinary 1½ volt dry cells obtainable in all hardware and electrical supply stores. Batteries are placed in cup like receptacles mounted

on sliding platform for quick replacement. Light has a sliding back door held closed and locked by a sliding latch. Door slides in grooves 34 inch deep on all sides except bottom.

Lights are waterproof and furnished complete with brass, nickel plated reflector, bulb and waterproof

switch. Batteries extra. Will stay lit 25 to 30 consecutive days without atten-tion, 2 mile visibility.

Galvanized Brass Copper of Lens Handle Bas Per Pair Per Pair Inches Inches Inches \$25.00 \$28.00 \$32.00 5½x6 10 7½x6	
--	--

With batteries, add \$3.50 to above prices. Bulbs only, \$.50 each.

Auxiliary Generators TO BE DRIVEN FROM MAIN MOTOR BY V BELT AND PULLEY



Fig. 659

This outfit now consists of an air cooled generator with V pulley, ammeter in panel, cutout and terminals all mounted on a base.

	Volts 6	Each \$27.00	Amperes 20	Overall Length Inches 10	Width Inches 73/4	Diameter Pulley Inches
	12	29.00	15	10	73/4	4
tine.	32	32.00	7	10	73/4	4

Fig. 470

Uses four ordinary $1\frac{1}{2}$ volt dry cells, enclosed in a water and air tight container which is fastened to upper unit by elbow type bolts and wing nuts.

Will stay lit for 25 to 30 consecutive days without attention.

Furnished complete with watertight switch and heavy duty bulb-batteries extra.

No. 1 2	Extreme Height Inches 16½ 18	Diameter Base Inches 61/2 61/2	Size Le Incl 4 1/4 x 5 3/8 x	ns hes 41/4	Weight Pounds 5½ 8½
Galv. No. Each 1 \$12.50 2 23.50		Polished Copper Ench \$15.00 26.00	Galv. Each \$13.25 26.00	-Red Lens Pollshed Brass Each \$14.75 27.50	Polished Copper Each \$15.75 28.50

With batteries, add \$3.50 to above prices. Bulbs only, \$.50 each.

Battery Marker Light

COPPER CASE-WATERTIGHT

LONG LIFE BURNING



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

Furnished with clear fresnel ball globe 3 inch diameter with threaded bottom, bail handle, turn switch and bulb.

Without	With	Height	Diameter
Battery	Battery	Overall	at Base
Each	Each	Inches	Inches
\$8.00	\$8.70	9	4 3/8

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

Fig. 295



6-12 AND 32 VOLTS

Flag Pole Lights

ELECTRIC ONLY-SOLID MAHOGANY POLE

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



Fig. 492

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

21/2 inch globes furnished unless 3 inch is specified.

Flag Pole Light CAST BRONZE TOP-MAHOGANY POLE

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

	1			
ð	Length Overall Inches	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
	20	\$6.00	\$ 6.50	\$ 7.00
	24	6.00	6.50	7.00
	30	6.40	6.90	7.40
	36	7.00	7.50	8.00
	42	7.50	8.00	8.50
	48	8.00	8.50	9.00
	60	8.50	9.00	9.50
	72	9.50	10.00	10.50

NOTE-21/2 inch globes furnished unless 3 inch is specified. Furnished with wire outlet in side or bottom of pole. For information on light only, refer to Fig. 484.



Pole Light Assembly

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

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

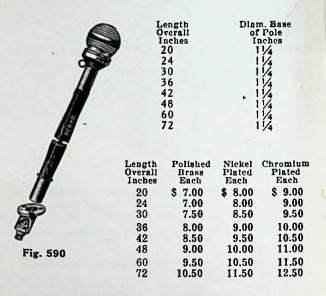




Fig. 710

The above pole lights can be furnished with either of these sockets at same price as above.

Battery Pole Lights

BRASS BATTERY CASE—FRESNEL BALL GLOBE MAHOGANY FINISH POLE

> Two ordinary flashlight battery cells installed in case on top of pole.

A wireless flag pole light which will furnish 14 hours of continuous light on one set of batteries, or enough for several weeks of ordinary use.

Furnished complete with bulb and switch, no batteries. Diam-eter base-1 inch.

Length	Chromium
Overall	Plated
Inches	Each
24	\$4.00
30	4.25

Fig. 537

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

Flag Pole Lights • ELECTRIC ONLY—MAHOGANY POLE FOR QUTBOARD MOTOR BOATS AND SMALL RUNABOUTS

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

0

Fig. 602

R	Len Ove Inc 2	rall l hes li 4	Diam. Base aches 3/4 3/4 3/4	Weight Oz. 8 9
	Height Inches 24 30	Polished Brass Each \$4.00 4.25	Nickel Plated Each \$4.50 4.75	Chromium Plated Each \$4.75 5.00

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

Flag Pole Lights

ELECTRIC ONLY-HOLLOW BRASS POLE

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

-	Ove Inc 2	agth rall thes 4 0	Outside Diam. Pole Inches ⁷ 1 1 1 1	Weight Oz. 12 16
	Length Inches 24 30	Polished Brass Each \$4.00 4.25	d Nickel Plated Each \$4.50 4.75	

Maple Flag Poles POLISHED

	Length Overall Inches	Diameter Base Inches	Each
i l	18	1	\$.30
	24 30	1	.35 .40
PERXO	36 42	11/4	.45 .55
	48 54	11/4	.65 .80
	60 66	11/2	.85 1.00
25			

Flag Pole Light WITH 2½ INCH GLOBE—HOLLOW BRASS POLE FOR OUTBOARD MOTOR BOATS AND RUNABOUTS Complete with cast bronze flag pole socket, wired ready for use, wires concealed in pole.

9		Length Overall Inches 24 30	Outside Diam. Pole Inches Ts Ts	Weight Lba. 11/4 11/2
Fig. 538	Length Inches 24 30	Polished Brass Each \$4.25 4.75	Nickel Plated Each \$4.75 5.25	Chromium Plated Each \$5.25 6.00

Junior Pole Light Assembly ELECTRIC CONNECTIONS IN POLE AND SOCKET HOLLOW BRASS POLE-CAST BRONZE SOCKET

For outboard motor boats and small runabouts

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

Fig. 846

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

Mahogany Flag Poles

Turned from solid seasoned mahogany. Natural fin-ish-varnished. Diameter base 1¼ inches.

Length Overall Inches	Weight Oz.	Price Each
18	21/2 3	\$1.00
20	3	1.20
24	31/2	1.40
30	4	2.00
36	43/4	2.40
42	51/4	2.60
48	6	2.80

Can be furnished with 1 inch base if specified.

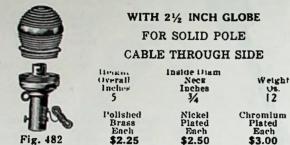
With brass or nickel plated ferrule-add \$.25 to above prices.



Pole Lights

WROUGHT BRASS

All with screw type fresnel ball globes, double con-tact electric sockets and 5 feet of rubber covered wateradmit a 50 C. P. bulb.



Pole Lights

CAST BRONZE

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

	CAH	JUNIOR P. FOR SOLI 3LE THRO h brass f admit a 3	ID POLE OUGH SII ferrule, cu	ut threads_
×9-	Uiam. Globe	Height Overall	Inside Dia: Neck	m. Weight
-	Inches	Inches 41/4	Inches	01. 4
Fig. 601	' 78 Polished Bronze Each \$2.00	Nic Pla Ea		Chromium Plated Kach \$2.75



WITH 21/2 INCH GLOBE FOR HOLLOW POLE CABLE THROUGH BOTTOM Inside Diam.

Neck Inches

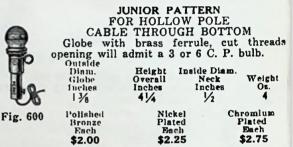
Nickel Plated

Each

\$2.50

Height Overall inches 5 Polished Brass Each \$2.25

Weight Öz. 12 Chromium Plated Each \$3.00



Figs. 600 and 601 Pole Lights can be furnished with 1/4 inch pipe thread in bottom-add \$.20 each.



WITH 3 INCH GLOBE FOR SOLID POLE CABLE THROUGH SIDE Height Inside Diam.)verall Inches Weight Lbs. Neck Inches 53/4 3/4

Nickel Plated Each Chromium Plated Each \$2.50 \$3.00

1



0

I G

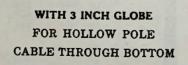
P

10 21/2

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

utside Diam. Blobe uches 2 or 3	Height Overall Inches 5	Inside Dia Neck Inches 3/4	Weight
olished	Nickel		Chromium
Bronze	Plated		Plated
Each	Each		Eacb
\$3.50	\$3.75		\$4.50







Pollshed

Brass Each

\$2.25

Inside Diam. Neck Inches Weight Lbs. 3/4 Nickel Plated Chromium Plated Each Each \$2.50 \$3.00



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

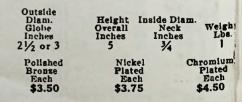


Fig. 484

Stern Lights

BRASS

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

Height Overall Inches 7	Diam Base Inches 23/8	Diam Globe Inches 2½ or 3	Weight Oz. 12
l'olishe Brass Each		Nickel Plated Each	Chromium Plated Each
\$3.00		\$3.25	\$4.00

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

Fig. 422

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

Fig. 375

Stern Lights

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.

r1g. 375	Diam.	Diam.	Size
Height Inches 7	Base Inches 31/2	Body Inches 3½	Lens Inches 3% x 3 ³
Polished Bronze Each \$7.00		Nickel Plated Each \$7.50	

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

Stern Lights

WITH THREADED BASE GLOBE

CAST BRONZE

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

	Heigh Overa Incha 83/4	all Bas es Inch	e 01 1es	Size of Globe Inches 5x31/2	
Fig. 112	Plain	Polished	Nickel	Chromium	
	Bronze	Bronze	Plated	Plated	
	Each	Each	Each	Each	
	\$4.00	\$4.50	\$5.00	\$5.50	

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

Stern Lights CAST BRONZE

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

Height Overall Inches	Diam. Base Inches	Diam. Globe Inches	Weight Oz.
6 ½	1 1 %	2½ or 3	18
Polished Bronze Each		Nickel Plated Each	Chromium Plated Each
\$4.00		\$4.25	\$5.00

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

2½ inch globes furnished unless 3 inch are requested.

Mast Lights

CAST BRONZE



Fig. 506

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

Fig. 521

H Iı

Weight Lbs. 2¾ Chromlum Plated Each

\$8.00

leight nches 6 ³ / ₄	Diam. Body Inches 3½	Size Lens Inches 3 % x 3 से	Inside Diam. Neck V Inches 1¼ or 1½	Veight Lhs. 2
Pollshed Bronze Each \$6.50		Nickel Plated Each \$6.90	P: E	ated acb 7.50

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

Mast Lights WITH THREADED BASE GLOBE

CAST BRONZE

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

	Fielg Over Incho 9	all Ma	ast of hes	Size f Globe Inches 5x31/2	
Fig. 113	Plain Bronze Each \$4.50	Polished Bronze Each \$5.50	Nickel Plated Each \$6.00	Chromium Plated Each \$6.50	

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

Yard Arm Light

CAST BRONZE

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

6	Diam. Globe Inches 4¼	Height Overall Inches 5%	B In	Size ase ches x 1 %	Weight Lbs. 1¾
	Polished Bronse Each \$4.50		Nickel Plated Each \$5.00		Chromium Plated Each \$5.50
8-18	Furnis round ba		rith 2 lesired.	inch	diameter

Fig. 205

Furnished without base but having a ½ inch pipe thread for mounting on pipe-deduct \$.50 each from above prices-specify Fig. 564 when ordering.

Special Mast Light

MEDIUM SCREW SOCKET—PORCELAIN BASE CAST BRONZE—THREADED GLOBE





Fig. 488

Fig. 489

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

Fig. 488 has ½ inch female pipe thread in base for mounting on pipe.

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

Plain	Pollshed	Height	Diam.	Size	Opening
Bronze	Bronze	Overall	Base	Globe	In globe
Each	Each	Inches	Inches	Inches	Inches
\$2.50	\$3.00	6	23/4	51/2x23/4	17/8
With Red,	Green o	r Blue G	lobe add	\$.50 Each

Clear Globes only.80 EachExtra Red, Green or Blue Globes only2.00 EachSpecial Porcelain Electric Sockets only.50 Each

Mast Light

MEDIUM SCREW SOCKET—PORCELAIN BASE CAST BRONZE—THREADED GLOBE

	Has ½ i Globe w bulb.	nch female ill accomo	e pipe thr date up	ead in base. to 75 watt
	Height Overall Inches 6½	Siz Glo Inch 5x3	be les	Opening In globe Inches 23/4
Fig. 309	Plain Bronze Each \$4.00	Polished Bronze Each \$5.00	Nickel Plated Each \$5.50	Chromium Plated Each \$6.00

With Red, Green or Blue Globe, add \$1.00 each.

Mast Truck and Yardarm Fixture

CAST BRONZE



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

Height Overall Inches 5%	Height Globe Inches 2 %	Width to Ends of Lugs Inches 4 1/4		Inside Diam, Globe Inches 2¼	Weight Lhs. 2
Plain Bronze Each \$4.00	Polished Bronze Each \$5.00		Nickel Plated Each \$5.50		Chromium Plated Each \$6.00

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

Mast Light

CAST BRONZE



1

Threaded base, fresnel ball globe, cast bronze support and fittings, standard Edison socket (medium screw base). Globe is large enough to take 110 volt, 25 watt lamp. Base of light is threaded for ½ inch pipe, standard thread. Rubber gasket insures water-tight fitting.

Fig. 103

Height Overall Inches 5%	Height Globe Inches 2%	Outside Diam. Globe Inches 3	Inside Diam. Globe Inches 2¼	Weight Lbs. 2
Plain	Polished		Nickel	Chromium
Bronze	Bronze		Plated	Plated
Each	Each		Each	Each
\$4.00	\$5.00		\$5.50	\$6.00

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

Mast Light

CAST BRONZE-THREADED GLOBE

DOUBLE CONTACT SOCKET

Fig. 362	mounting with 2½ ball glob	bronze bas on ½ inch or 3 inch e; globe is 50 candle p Diameter Base Inches 21/4	diamet	Furnished er fresnel enough to lb. Weight Pounds
Plain	Polished	Nickel		Chromium
Bronze	Bronze	Plated		Plated
Fach	Each	Each		Each
\$2.50	\$3.00	\$3.50		\$4.00

With Red, Green or Blue Globe, add \$.50 each.

Perkins Marine Lamp & Hardware Corp. 23

NEW OCEAN AND COASTWISE REGULATIONS

New ocean and coastwise regulations of the U. S. Department of Commerce, Bureau of Marine Inspection and Navigation call for an efficient signaling lamp on all ocean and coastwise passenger ships over 150 gross tons. Such lamp to be equipped with fresnel lens and high speed Morse bulb of at least 50 C. P. and operated by a weatherproof key fitted with a suitable condenser. Effective on existing vessels November 7, 1937 and on new vessels immediately.

Our Fig. 403 Blinker Signaling Lights and the following keys have been officially approved by the Bureau.

Watertight Blinker Key

WITH CONDENSER

CAST BRONZE-BLACK FINISH-APPROVED



Fig. 9

A cast bronze watertight box fitted with special key, externally operated by cast bronze lever.

Each \$18.00	Length Inches 4 ¹ / ₈	Width Inches 31/2	Height Inches 21/4	Weight Pounds 21/2
-----------------	---	-------------------------	--------------------------	--------------------------

Open Type Blinker Key

WITH CONDENSER





Fig. 10

Standard Morse key with condenser for reducing arcing, mounted on cast aluminum base.

Each \$15.00	Length Inches 6½	Width Inches 31/8	Height Inches 23⁄4	Weight Pounds ½
-----------------	------------------------	-------------------------	--------------------------	-------------------------

Yardarm Fixture

FOR MEAL AND ABSENT LIGHT CAST BRONZE



Polished Bronze Each \$5.00

Nickel
Plated
Each
\$5.50

Fig. 573 Chromium Plated Each \$6.00

Length Without Bulbs

Inches

Size of Base Inches 3 10x2 18

Mast or Blinker Signaling Lights

WITH MEDIUM SCREW SOCKETS WATERTIGHT-CAST BRONZE-BLACK FINISH



Fig. 403

With hinged top for quick replacement of bulb. Bottom is hexagon shape threaded for pipe. Used on yachts and ships for blinker signaling.

No. 1. For vessels 150 feet in length or under.

No. 2. For vessels over 150 feet but not over 450 feet in length.

No. 3. For vessels over 450 feet in length.

	Height Wid Inches Inch 6¾ 4¾ 8 5½ 9½ 7½	es Inches 4 3 ³ / ₈ x3 ¹ / ₂ 8 4 ¹ / ₄ x4 ¹ / ₄	
2 12.50	8 57	8 41/4=4	1/4

New Meal and Absent Light

CAST BRONZE-WATERTIGHT



Fig. 330

Answering the yachtsman's prayers for a small watertight meal and absent light with medium screw electric sockets for mounting on the average small vardarm.

One solid bronze casting with a curved mounting base and two fresnel ball globes, one blue, the other clear. Can also furnish with red or green globes if desired. 2½ inch diameter globes are furnished unless 3 inch are specified.

For bulbs to fit, see Fig. 8,

Polished Bronze Each	Nickel Plated	Chromium Plated	Overall	Size Base	Weight
\$6.00	Each \$6.50	Each \$7.00	Inches $8\frac{3}{4}$	Inches $3\frac{1}{4x}\frac{3}{4}$	Pounds 21/4

LIGHTS FOR VESSELS OVER 65 FEET LONG TURRET TOP STYLE

Made of extra heavy metal. Galvanized lights are made of black steel and hot galvanized after they are formed. All have fresnel lenses and are furnished complete with burner and wick. Brass or copper lamps are highly polished. Solid brass swivel oil or electric founts for these lights are shown on page 43, Fig. Nos. 282, 288, 289.

Side Lights

112½ DEGREES—10 POINTS OF COMPASS FURNISHED IN PAIRS, GREEN FOR STARBOARD AND RED FOR PORT WITH CHANNEL SHAPED SOCKET AND BRACKET FOR MOUNTING

No. 9	Height Inches 53/4	lze of Lens	ım. I. es	Height ess Ring Inches 4	Size Base Inches 61/2x61/2	For Size Vessel Feet 65 to 90
10	63/4	83	7.	15	71/2x71/2	91 to 149
11	71/2	ПÍ		183/4	91/2×91/2	150 to 450
No. 9 10 11	Oil or 1 I Galvanized Per Pair \$26.00 28.00 38.00	Light Electric Pollshed Brass Per Pair \$36.00 38.00 50.00	Only Polished Copper Per Pair \$46.00 48.00 60.00	Oil and 1 Light Electric Add Per Pair \$3.00 3.00 4.00	Oil and 2 Light Electric Add Per Pair On Application On Application \$5.00	Mogul 3 Wire Socket Add Per Pair \$6.50 6.50 6.50

Fig. 21



Fig. 982



Fig. 985

Masthead, Range and Towing Lights

225 DEGREES—20 POINTS OF COMPASS—CLEAR LENS WITH FOUR CAST METAL LUGS FOR MOUNTING

	Size o	f Lens	Height	Width Centers	Size	For	
	Height	Circum.	Less Ring		Base	Size Vessel Feet	
No. 1	Inches 554	Inches $11\frac{1}{2}$	Inches 14	Inches 85/8	Inches 7x7	65 to 90	
2	55/8 65/8	111/2	15	83/4	7x7	91 to 149	
3	7	17	183/4	101/2	9x91/2	150 to 450	
	Oil or 1	Light Electric					
		Polished	Polished	Oil and	Oil and	Mogul	
No.	Galvanized Each	Brass Each	Copper Each	1 Light Electric Add Each	2 Light Electric Add Each	3 Wire Socket Add Each	
1	\$19.00	\$23.00	\$28.50	\$1.50	On Application	\$3.25	
2	20.00	24.00	29.50	1.50	On Application	3.25	
3	25.00	30.00	36.00	2.00	\$2.50	3.25	

WITH RED, GREEN OR BLUE LENS ADD \$5.00 EACH.

For detailed information on mogul 3 wire socket see Fig. 1082.

For detailed information on mogul 3 wire socket see Fig. 1082.

Stern, Towing and Overtaken Lights

135 DEGREES—12 POINTS OF COMPASS—CLEAR LENS WITH FOUR CAST METAL LUGS FOR MOUNTING

No. 4 5 6	Size o Height Inches 55% 65% 73%	f Lens Circum. Inches 7 7 91/2	Height Less Ring Inches 14 15 1834	Width Centers of Lugs Inches 85/8 83/4 101/2	Size Base Inches 7x7 7x7 9x91/2	For Size Vessel Feet 65 to 90 91 to 149 150 to 450	
	Oil or 1	Light Electric					
	0.1	Pollshed	Polished	Oil and	Oil and	Mogul 3 Wire Socket	
No.	Galvanized Each	Brass Each	Copper Each	1 Light Electric Add Each	2 Light Electric Add Each	Add Each	
4	\$19.00	\$23.00	\$28.50	\$1.50	On Application	\$3.25	
5	20.00	24.00	29.50	1.50	On Application	3.25	
6	25.00	30.00	36.00	2.00	\$2 50	3.25	

WITH 45 DEGREE RED LENS FOR SELF PROPELLED SUCTION DREDGES ADD \$5.00 EACH.

For detailed information on mogul 3 wire socket see Fig. 1082.

Above items desired CHROMIUM PLATED, add 40% to Brass or Copper Prices.



LIGHTS FOR VESSELS OVER 65 FEET LONG

TURRET TOP STYLE



w	ITH FOUR		G EYES			GUARDS	AROUND	LENS
No. 22 22 ¹ ⁄2 23	Help Incl 53 65 7	ies 8	Dlam. Dlam. $5\frac{3}{8}$ $5\frac{3}{8}$ $7\frac{1}{2}$	Les: Io 	eight s Ring ches 4 1/2 6 8 3/4	Diam. of Base Inches 71/2 71/2 91/2		For Size Vessel Feet 65 to 90 91 to 149 150 to 450
No. 22 22 ¹ / ₂ 23	Oil or 1 Galvanized Each \$14.00 16.00 20.00	Light Elect Polished Brass Each \$21.00 23.00 29.00	ric Only Polishe Copper Each \$25.00 27.00 34.00	d 11	Oll and Jght Elec Add Eact \$1.50 1.50 2.00	tric 2 Ligh Add On Ap On Ap	l and t Electric Each plication plication .50	Mogul 3 Wire Socket Add Each \$3.25 3.25 3.25
		WITH	RED, GR	EEN	OR BLU	JE LENSE	S	
22 22 ¹ ⁄2 23	\$17.00 19.50 25.00	\$24.00 26.50 34.00	\$28.00 30.50 39.00		\$1.50 1.50 2.00	On Ap On Ap	plication plication .50	\$3.25 3.25 3.25

Anchor Lights

For information on mogul 3 wire socket see Fig. 1082.

WITH FOUR LAS

Not Under Command Lights

360 DEGREES-RED LENS

WITH FOUR LASHING EYES AND WIRE GUARDS AROUND LENS

No. 22 22 ¹ / ₂ 23	Helg Inch 53/ 63/ 7	ies I	Diam. nches 5 3/8 5 3/8 7 1/2	Height Less Ring Inches 141/2 16 183/4	Diam. of Base Inches 71/2 91/2 91/2	For Size Vessel Feet 65 to 90 91 to 149 150 and up
No. 22 22 ¹ ⁄2 23	Oil or 1 Galvanized Each \$17.00 19.50 25.00	Light Electr Pollshed Brass Each \$24.00 26.50 34.00	ic Only Pollshed Copper Each \$28.00 30.50 39.00	Oll and 1 Light Electric Add Each \$1.50 1.50 2.00	Oil and 2 Light Electric Add Each On Application 0n Application \$2.50	Mogul 3 Wire Socket Add Each \$3.25 3.25 3.25 3.25

Fig. 129



Fig. 1082

New Regulation Mogul 3 Wire Sockets and Double Filament Bulbs

The U. S. Bureau of Marine Inspection and Navigation is at present drawing up new regulations which specify the use of a 3 wire mogul socket and double filament bulb on all 3 wire systems where two light electric shall be used. These rules are now in effect on lights for new vessels under construction and for replacements. The use of one bulb insures the proper focus of light at all times.

Base has watertight stuffing gland in bottom for wire.

Complete except bulb	3.25
Complete with DUID	8.00
Bulb Only 50-50 watt	4.80
Bulb Only, 100-100 watt	5.00



No 1 2

N

LIGHTS FOR VESSELS OVER 65 FEET LONG AMERICAN IMPROVED STYLE

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

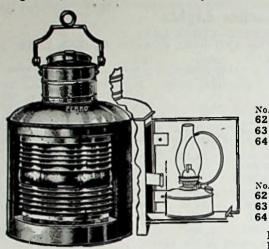


Fig. 24

			Side Lig	hts	
	1121/2	DEGREE	S-10 POIN	TS OF COM	IPASS
	FURNISHE		AIRS, GREE		TARBOARD
) RED FOR		
	WITH CHA		SHAPED SO		BRACKET
		F.	OR MOUNT	ING	
	Size of	Lens	Height		For
	Height	Cir.	Less Handle	Width	Size Vessel
•	Inches 53/4	Inches 81/2	Inches	Inches 61/2×63/4	Feet 65 to 90

Galvanized Per Pair \$40.00	Pe	Per Pair \$50.00	Pollshed Coppe Per Pair \$60.00
FOR OIL OR	1 LIGHT	ELECTRIC	ONLY
$\begin{array}{ccc} 6\frac{3}{4} & 8\frac{3}{4} \\ 7\frac{1}{2} & 11\frac{1}{2} \end{array}$	143/4 18	71/4x71/4 91/2x91/2	91 to 149 150 to 450

66.00

er

76.00

For oil and one light electric equipment, add \$5.00 per pair. For oil and two light electric equipment, add \$6.00 per pair. For mogul 3 wire socket, add \$12.00 per pair.

Masthead, Range and Towing Lights

225 DEGREES—20 POINTS OF COMPASS—CLEAR LENS WITH FOUR CAST METAL LUGS FOR MOUNTING

0. L 2 3	Size of Height Inches 55/8 65/8 7	Lens Circum. Inches 111/2 111/2 17	Height Less Handle Inches 1334 1434 18	Size Base Inches 7 x71/4 75/8x71/4 91/2x91/4	Width Centers of Lugs Inches 8½ 8½ 10¾	For Size Vessel Feet 65 to 90 91 to 149 150 to 450
2	'	17	10	972 \$ 974	10%	130 to 430

FOR OIL OR 1 LIGHT ELECTRIC ONLY

No.	Galvanized Each	Polished Brass Each	Polished Copper Each
1	\$25.50	\$29.50	\$35.00
2	26.50	30.50	36.00
3	32.00	36.00	42.00

50.00

With red, green or blue lens, add \$5.00 each. For oil and one light electric equipment, add \$2.50 each. For oil and two light electric equipment, add \$3.00 each. For mogul 3 wire socket, add \$6.00 each.

Stern, Towing and Overtaken Lights

135 DEGREES—12 POINTS OF COMPASS—CLEAR LENS WITH FOUR CAST METAL LUGS FOR MOUNTING

to. 4 5 6	Size of Height Inches 5 3/8 6 5/8 7 3/8	Lens Circum. Inches 7 7 91/2	Height Less Handle Inches 1334 1434 18	Size Base Inches 7 x71/4 75/8x71/4 91/2x91/4	Width Centers of Lugs Inches 8½ 8½ 85/8 103/4	For Size Vessel Feet 65 to 90 91 to 149 150 to 450
	-	10.0.077				

FOR OIL OR 1 LIGHT ELECTRIC ONLY

0,	Galvanized Each \$25.50	Polished Brass Each \$29.50	Pollshed Copper Each \$35.00
	26.50	30.50	36.00
	32.00	36.00	42.00

With 45 degree red lens for self propelled suction dredges, add \$5.00 each.

For oil and one light electric equipment, add \$2.50 each. For oil and two light electric equipment, add \$3.00 each. For mogul 3 wire socket, add \$6.00 each.

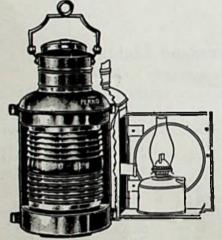


Fig. 981

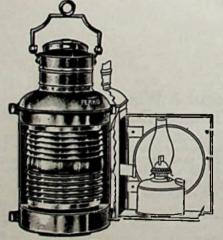
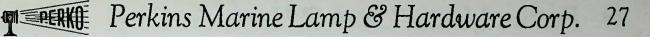


Fig. 984



LIGHTS FOR VESSELS OVER 65 FEET LONG AMERICAN IMPROVED STYLE



Fig. 26

		360 DEG	REES-CLEA	R LENS	
WITH	FOUR LA	SHING EYE	S AND WIRI	E GUARDS	AROUND LENS
		of Lens	Height Less Handle	Diam.	For
No.	Height Inches	Diam. Inches	Less Handle Inches	of Base Inches	Size Vessel Feet
84	5 3/8	53/8	14	73/8	65 to 90
85	65/8	53/8	151/2	73%	91 to 149
86	7	71/2	18	91/2	150 to 450
		OIL OR 1 L	IGHT ELECT	RIC ONLY	
			I	olished	Polished
N7.		Galvanized		Brass	Copper
No. 84		Each \$16.00		Each \$23.00	Each
85		18.00		25.00	\$27.00 29.00
86		24.00		33.00	38.00
00	-	24.00		33.00	38.00
	W	TH RED, G	REEN OR B	LUE LENS	ES
84		\$19.00		\$26.00	\$30.00
85		21.50		28.50	32.50
86		29.00		38.00	43.00

Anchor Lights

No. 84 and 85-Oil and one light electric equipment, add \$1.50 each.

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

For mogul 3 wire socket, add \$3.25 each.



Fig. 29

Not Under Command Lights

360 DEGREES-RED LENS WITH FOUR LASHING EYES AND WIRE GUARDS AROUND LENS

No. 84 85 86	Size of Height Inches 5 3/8 6 5/8 7	Lens Diam. Inches 5 3/8 5 3/8 7 1/2	Height Less Handle Inches 14 151/2 18	Diam. of Base Inches 7 3/8 7 3/8 9 1/2	For Size Vessel Feet 65 to 90 91 to 149 150 and up
-----------------------	--	--	--	---	---

OIL OR 1 LIGHT ELECTRIC ONLY

Galvanized	Polished Brass	Polished Copper
Each	Each	Each
\$19.00	\$26.00	\$30.00
21.50	28.50	32.50
29.00	38.00	43.00

No. 84 and 85—Oil and one light electric equipment, add \$1.50 each. No. 86—Oil and one light electric equipment, add \$2.00 each; oil and two light electric equipment, add \$2.50 each.

For mogul 3 wire socket, add \$3.25 each.

Mogul 3 Wire Socket and Bulb

FOR SIDE, MASTHEAD AND STERN LIGHTS

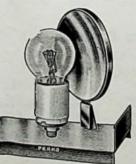


Fig. 1081

Sliding platform with mogul 3 wire socket, double filament bulb, reflector and watertight stuffing gland in bottom for wire.

	h
Complete except bulb \$ 6.	00
Complete with bulb 11.	00
Bulb only, 50-50	
watt	80
Bulb only, 100-100	
watt	00
Without reflector	
deduct 1.:	25

For further information on mogul 3 wire sockets see Page 25

Fig. 1082

FOR ANCHOR AND NOT UNDER COMMAND LIGHTS

> Fount base, swivel type with mogul 3 wire socket, double filament bulb, and watertight stuffing gland in bottom for wire.

Complete except bulb	Each 3.25
Complete with bulb	8.00
Bulb only, 50-50 watt	4.80
Bulb only, 100-100 watt	5.00

These lights are constructed in accordance with new specifications on construction of electric navigation lights recently submitted to us by the U. S. Department of Commerce, Bureau of Marine Inspection and Navigation. These specifications are now in effect on lights for new vessels under construction and on replacements of lights on other vessels.

All have cast bronze threaded caps with rubber gasket for replacing of bulbs, also packing glands for entrance of electric cable. All are equipped and furnished with mogul 3 wire socket and double filament bulb.

Brackets and mounting lugs are arranged exactly the same as those on our oil lights to facilitate replacement when necessary.

Top opening in all lights below is 434 inches.

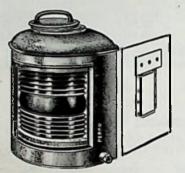


Fig. 1150

Side Lights

112½ DEGREES—10 POINTS OF COMPASS FURNISHED IN PAIRS, GREEN FOR STARBOARD AND RED FOR PORT WITH CHANNEL SHAPED SOCKET AND BRACKET FOR MOUNTING

Galvanized Bra No. Per Pair Per P 1 \$62.00 \$67. 2 72.00 77.	is Copper air Per Pair 00 \$75.00	Size of Lens Inches 63/4x 83/4 71/2x111/2	Height Less Handle Inches 11 131/2	Size Base Inches 71/4 x 71/4 91/2 x 91/2	For Size Vessel Feet 65 to 149 150 and up
--	--	---	--	--	---

With one light electric medium screw socket, deduct \$3.00 per pair.



Fig. 1151

Masthead, Range and Towing Lights

225 DEGREES—20 POINTS OF COMPASS—CLEAR LENS WITH FOUR CAST METAL LUGS FOR MOUNTING

Galvanized No. Each 1 \$37.50 2 42.50	Polished Brass Each \$40.00 45.00	Polished Copper Each \$44.00 49.00	Size of Lens Inches 65% x 1 1 1/2 7 x 1 7	Height Less Handle Inches 11 131/2	Size Base Inches 71/8 x 73/4 9 x10	Center to Center of Lugs Inches 85/8 107/8	For Size Vessel Feet 65 to 149 150 and up
--	---	--	---	--	--	---	---

With red, green or blue lens, add \$5.00 each.

With one light electric medium screw socket, deduct \$1.50 each.



Fig. 1152

Stern, Towing and Overtaken Lights

135 DEGREES-12 POINTS OF COMPASS-CLEAR LENS WITH FOUR CAST METAL LUGS FOR MOUNTING

Galvanized No. Each 1 \$37.50 2 42.50	Polished Brass Each \$40.00 45.00	Polished Copper Each \$44.00 49.00	Size of Lens Inches 6 % x7 7 % x9 1/2	Height Less Handle Inches 11 131/2	Size Base Inches 7x 71/2 9x10	to Center of Lugs Inches 85/8 111/8	For Size Vessel Feet 65 to 149 150 and up
--	---	--	---	--	---	---	---

With red, green or blue lens, add \$5.00 each.

With 45 degree red lens for self propelled suction dredges, add \$5.00 each. With one light electric medium screw socket, deduct \$1.50 each.

Perkins Marine Lamp & Hardware Corp. 29

LIGHTS FOR VESSELS OVER 65 FEET LONG WATERPROOF-ELECTRIC ONLY-NEW REGULATIONS WITH MOGUL 3 WIRE SOCKET AND DOUBLE FILAMENT BULB



Fig. 1153

Anchor Lights

360 DEGREES-CLEAR LENS WITH FOUR LASHING EYES AND WIRE GUARDS AROUND LENS

2 37.50 40.00 44.00 5.00 7 x71/2 141/4 91/2 150 and u	No. 1 2	Galvanized Each \$32.50 37.50	Polished Brass Each \$35.00 40.00	Polished Copper Each \$39.00 44.00	Colored Lens Add Each \$3.50 5.00	Size of Lens Inches 65% x 53% 7 x 71/2	Height Less Handle Inches 12½ 14¼	Diam. Base Inches 73/8 91/2	For Size Vessel Feet 65 to 149 150 and up
---	---------------	--	---	--	---	--	---	---	---

With one light electric medium screw socket, deduct \$1.50 each. Colored lenses are red, green or blue.



Not Under Command Lights

360 DEGREES-RED LENS

WITH FOUR LASHING EYES AND WIRE GUARDS AROUND LENS

No. 1 2	Galvanized Each \$36.00 42.50	Polished Brass Each \$38.50 45.00	Pollshed Copper Each \$42.50 49.00	Size of Lens Inches 65% x 53% 7 x 71/2	Height Less Handle Inches 121/2 141/4	Diam. Base Inches 7 3/8 9 1/2	For Size Vessel Feet 65 to 149 150 and up
---------------	--	---	--	--	---	---	---

With one light electric medium screw socket, deduct \$1.50 each.

Fig. 1154



Fig. 532

Double Filament Bulb

MOGUL BASE FOR 3 WIRE SYSTEM

120 VOLTS

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 50-50 00-100 Each \$4.80 5.00 Height Overall Inches 5 5

Diam. Inches 31/8 31/8



Fig. 533

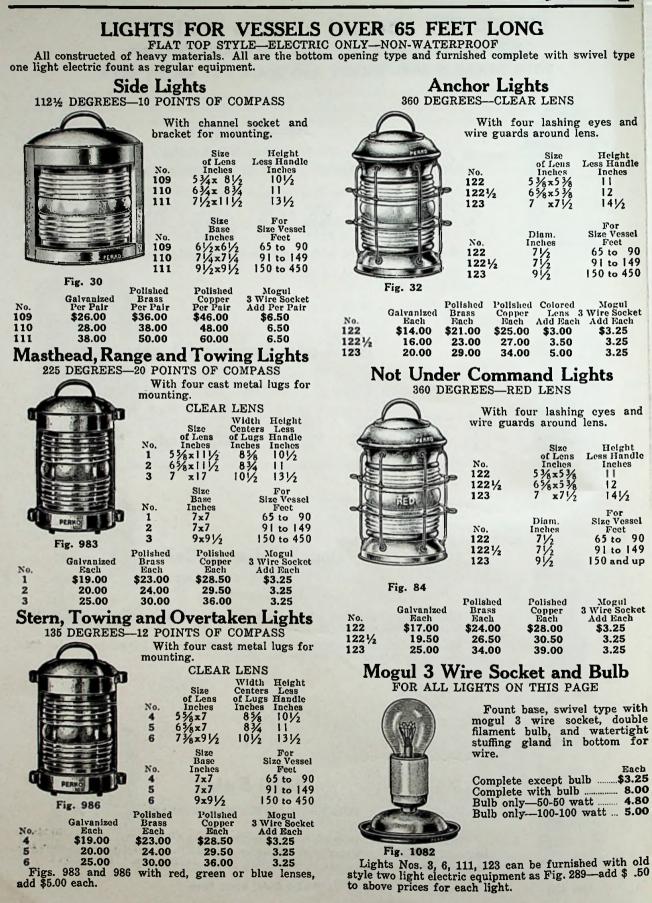
Mogul Socket

PORCELAIN-FOR 3 WIRE SYSTEM

This socket is for use with our double filament bulb Fig. 532. All the lights on Pages 28 and 29 are equipped with this socket installed on a special cast bronze base having a direct lead to the watertight stuffing gland in the outside body of light.

Socket Only, \$1.50 Each

PERKO



OLD STYLE 180 DEGREE BOW LIGHTS

All made of extra heavy metal. Galvanized lights are made of black steel and hot galvanized after fabrication. Brass and copper lights are highly polished.



> 1 1 1

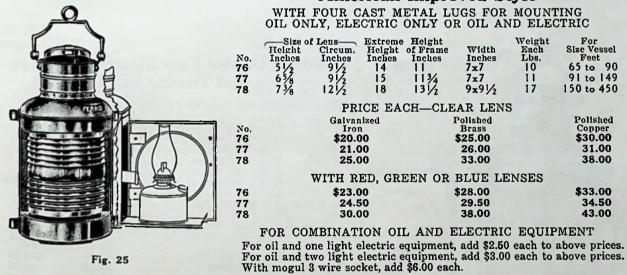
Turret Top Style WITH CHANNEL SHAPED SOCKET AND BRACKET FOR MOUNTING OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC -Size of Lens-Extreme Height of Size For Weight

No.	Height Inches	Circum. Inches	Height Inches	Frame Inches	Base Inches	Each Lbs.	Size Vessel Feet
14 15	51/2 65/8	91/2 91/2	161/2	101/2	7 x7	8	65 to 90
15	65/8	91/2	17	11.	71/2×7	9	91 to 149
16	7 3/8	121/2	211/4	133/4	9 x91/2	14	150 to 450
		P	RICE EA	CH-CLEA	R LENS		
No.		Galvan	ized		Brass		Copper
No. 14 15		\$13.0	00		\$18.00		\$23.00
15		14.0	00		19.00		24.00
16		19.0	DO		25.00		30.00
		WITH	RED, GR	EEN OR E	LUE LENSE	s	
14		\$16.0	00		\$21.00		\$26.00
15		17.			22.50		27.50
16		24.			30.00		35.00

Fig. 22

FOR COMBINATION OIL AND ELECTRIC EQUIPMENT

No. 14 and 15—For oil and one light electric equipment, add \$1.50 each to above prices. No. 16—For oil and one light electric equipment, add \$2.00 each. Oil and two light electric equipment, add \$2.50 each to above prices. All with mogul 3 wire socket, add \$3.25 each.



American Improved Style

WITH FOUR CAST METAL LUGS FOR MOUNTING OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

No. 76	Inches In $5\frac{1}{2}$ $\frac{6}{8}$ $\frac{5}{8}$	$\begin{array}{ccc} \text{rcum.} & \text{Height} \\ \text{ches} & \text{Inches} \\ 0 \frac{1}{2} & 14 \\ 0 \frac{1}{2} & 15 \end{array}$	of Frame Inches 11 13/4	Width Inches 7x7 7x7	Weight Each Lbs. 10 11	For Size Vessel Feet 65 to 90 91 to 149	
78	73/8 12	21/2 18	131/2	9x91/2	17	150 to 450	
		PRICE EA	CH-CLE	AR LEN	5		
		Galvanized		Polished		Polished	
No.		Iron		Brass		Copper	
76		\$20.00		\$25.00		\$30.00	
No. 76 77		21.00		26.00		31.00	
78		25.00		33.00		38.00	
	WI	TH RED, GR	LEEN OR	BLUE LE	INSES		
76		\$23.00		\$28.00		\$33.00	
77		24.50		29.50		34.50	
78		30.00		38.00		43.00	
-							

FOR COMBINATION OIL AND ELECTRIC EQUIPMENT

Fig. 25

No

114

115

116

14.00

19.00



Fig. 31

	1 LI	GHT ELECT	RIC ONLY		
Size of Lens Inches 51/2x 91/2 65/8x 91/2 7 x121/2	Height less Handle Inches 1 3/4 3 1/2	Extreme Height Inches 131/2 141/4 16	Size Base Inches 7 x7 $7\frac{1}{2}x7$ $9 x9\frac{1}{2}$	Net Weight Each Lbs. 6 6½ 10½	For Size Vessel Feet 65 to 90 91 to 149 150 to 450
Galvanized Each \$13.00	-Clear Lens- Polished Brass Each \$18.00	Polished Copper Each \$23.00	Galvaniz Each \$16.00	Each \$21.00	d Pollshed Copper Each S \$26.00

17.50

24.00

27.50

35.00

22.50

30.00

Flat Top Style WITH FOUR CAST METAL LUGS FOR MOUNTING

No. 116 can be furnished with 2 light electric equipment, add \$.50 each. All with mogul 3 wire socket, add \$3.25 each.

24.00

30.00

19.00

25.00

LIGHTS FOR VESSELS OVER 450 FEET LONG

AMERICAN IMPROVED STYLE

Made of extra heavy gauge metal for use on the larger ocean service vessels. Heavy cast bronze trimmings body is riveted and soldered, heavy wire guards soldered and reinforced. Furnished complete with back door, sliding fount, burner, wick, chimney and reflector.

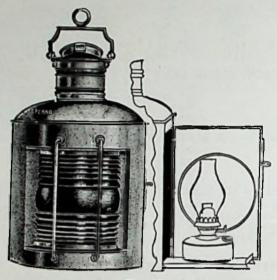


Fig. 27

8-Inch Face Side Lights

112½ DEGREES—10 POINTS OF COMPASS FURNISHED IN PAIRS, GREEN FOR STARBOARD AND RED FOR PORT

WITH CHANNEL SHAPED SOCKET AND BRACKET FOR MOUNTING

> Extreme Height Less Handle, 20¼ inches Height of Frame, 15½ inches Width, 9½ inches x 9¾ inches Size of Lens, 8¾ inches x 9¾ inches Weight, Per Pair, 36 pounds

	Polished Brass Per Pair	Polished Copper Per Pair
Oil or one light electric only	\$72.00	\$80.00
Oil and one light electric	77.00	85.00
Oil and two light electric	78.00	86.00
With mogul 3 wire socket	84.00	92.00

8-Inch Double Face Masthead, Range and Towing Lights

225 DEGREES-20 POINTS OF COMPASS-CLEAR LENSES WITH FOUR CAST METAL LUGS FOR MOUNTING

> Extreme Height Less Handle, 20 inches Height of Frame, 14¼ inches Width, 12 inches x 9¼ inches Width, Centers of Lugs, 13% inches Size of Lens, 8% inches x 20 inches Net Weight, Each, 19 pounds

	Polished Brass Each	Polished Copper Each
Oil or one light electric only	\$66.00	\$78.00
Oil and one light electric	68.50	80.50
Oil and two light electric	69.00	81.00
With mogul 3 wire socket	72.00	84.00
With red or green lenses, add \$6.00 each		

135 Degree Stern, Towing and Overtaken Lights Use Fig. 984, Light No. 6, Page 26

> 360 Degree Anchor Lights Use Fig. 26, Light No. 86, Page 27

360 Degree Not Under Command Lights Use Fig. 29, Light No. 86, Page 27

For further information on mogul 3 wire sockets and double filament bulbs see Fig. 1081

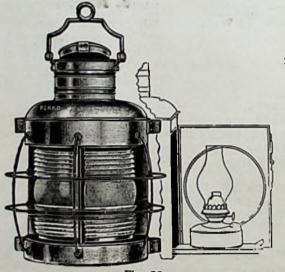


Fig. 28

LIGHTS FOR VESSELS OVER 450 FEET LONG

FLAT TOP STYLE—ELECTRIC ONLY—NON-WATERPROOF

Made of extra heavy gauge metal, for use on the larger ocean service vessels. Heavy cast bronze trimmings, body is riveted and soldered, heavy wire guards soldered and reinforced. Furnished complete with back doors, sliding base with electric socket and reflector.

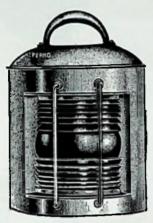


Fig. 33

Fig. 34

8-Inch Face Side Lights

112½ DEGREES—10 POINTS OF COMPASS FURNISHED IN PAIRS, GREEN FOR STARBOARD AND RED FOR PORT WITH CHANNEL SHAPED SOCKET AND BRACKET FOR MOUNTING

> Height Less Handle, 16 inches Extreme Height, 18½ inches Size of Base, 9½x9¾ inches Size of Lens, 8‰x9¾ inches Weight Per Pair, 30 pounds

> > Polished

Polished

	Brass Per Pair	Copper Per Pair
With one light electric socket		\$80.00
With two light electric socket	73.00	81.00
With mogul 3 wire socket	84.00	92.00

8-Inch Double Face Masthead, Range and Towing Lights

225 DEGREES-20 POINTS OF COMPASS-CLEAR LENSES WITH FOUR CAST METAL LUGS FOR MOUNTING

Height Less Handle, 15½ inches Extreme Height, 18 inches Size of Base, 9½ x12 inches Size of Lens, 8½ x20 inches Center to Center of Lugs, 13% inches Weight, Each, 18 pounds

	Polished	Polished
	Brass	Copper
	Each	Each
With one light electric socket	\$66.00	\$78.00
With two light electric socket	66.50	78.50
With mogul 3 wire socket	72.00	84.00
With red or green lenses, add \$6.00 each.		

135 Degree Stern, Towing and Overtaken Lights

Use Fig. 986, Light No. 6, Page 30

360 Degree Anchor Lights

Use Fig. 32, Light No. 123, Page 30

360 Degree Not Under Command Lights

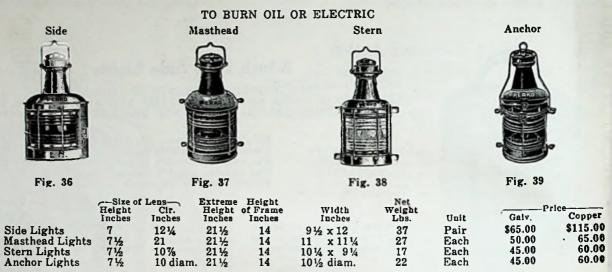
Use Fig. 84, Light No. 123, Page 30

For further information on mogul 3 wire sockets and double filament bulbs see Fig. 1081

Norwegian Regulation Running Lights

GUARANTEED TO PASS NORWEGIAN REGULATIONS ON RUNNING LIGHTS

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



COMBINATION OIL AND ELECTRIC EQUIPMENT For combination oil and electric, add \$3.00 to above prices. Extra colored shades with brass frame for side lights, price, each, \$3.50.

Fig.

36

37

38

39

English Regulation Running Lights

GUARANTEED TO PASS INSPECTION OF THE BRITISH BOARD OF TRADE

Standard running lights of heavy construction for deep water vessels of British registry and according to specifications of the British Board of Trade. Standard equipment consists of high grade clear fresnel lens with col-ored glass shade in back of lens on side lights, English cone burner and chimney, as shown on page 46, heavy nickel plated reflector, T shaped bracket. Top of light opens on cast bronze hinge.

Side		TO BURN OI Masthead	L OR ELECTRIC Stern	Anchor
5	1		â	A
		AND AND ADDRESS OF		
Fig. 40	Carl mailers	Fig. 41	Fig. 48	Fig. 42
Fig. 40 Side Lights 41 Masthead Lights 48 Stern Lights 42 Anchor Lights	Size of Lens Height Clr. Inches Inches 7 124 742 21 742 21 742 107% 742 10 diam	Extreme Heigh Height of Frai Inches Inche 20% 14% 22 15% 21% 14 20% 14	Inches Lbs. 4 9½ x 11¾ 32	Unit Galv. Copper Pair \$65.00 \$115.00 Each 50.00 65.00 Each 45.00 60.00 Each 45.00 60.00

COMBINATION OIL AND ELECTRIC EQUIPMENT For combination oil and electric, add \$5.00 to above prices. Extra colored shades for side lights--Price, each, \$3.00. Electric socket is standard Edison (medium screw base) or double contact English bayonet type.

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. 172

Fig. No. 169

171

173 2

175 6 176 7

5 170 3

4 172





Fig. 173

Fig. 171



Ball Folded



Frustrum Folded

	Diam. Inches	Height Inches	Weight Lbs.	Price Each
Black ball signal	24	24	21/2	\$ 6.00
Red ball signal	24	24	21/2	9.00
Black and white ball signal	24	24	21/2	10.50
Black and white frustrum	24	48	5	25.00
Red frustrum	24	48	5	25.00
Clear towing light, galvanized	71/2	17	9	16.80
Red towing light, galvanized	71/2	17	9	20.40

Fig.

RULES IN EFFECT ON DAY SIGNALS

The following signals we guarantee to cover law in confirmation with pilot rules of November 10, 1936. All of ur Day Shapes are made of highest grade material and can be folded up when not in use and stowed away in a ery small space.

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

RULE NO. 2.—For all style vessels fastened alongside of wrecks, or moored over a wreck, two of our No. 2 lapes 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 ight 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 in the bottom, require iring the day two of our No. 5 Black Balls, and during the night, in addition to regulation lights, two Red Mast lead Lights and two special Four Point Red Lights.

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

RULE NO. 6-Vessels of more than 300 gross tons propelled by machinery when moored or anchored in a irway 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 🖻 day two No. 5 shapes.

ARTICLE 4-B INTERNATIONAL RULES—A vessel employed in laying or in picking up telegraph cable shall ary 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 mall carry by day one No. 5 shape.



Fig. 62









Ferry Boat Side Lights

FOR DOUBLE END BOATS

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

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

Size of Lenses	Extreme Height	Size of Base	Extreme Width	Net	Height Fiat Top Elec.	p	Price Each-	
Inches	Inches	Inches	Inches	Lbs.	Inches		Brass	Coppe
6¾ x 9	19	14½ x 10	171/2	21	13	\$65.00	\$110.00	\$130.0
7½ x 11½	21 1/4	17¼ x 11½	20 3/8	27	151/2	84.00	130.00	150.0
Can	also he	had with flat	ton	ectric	only.	same price	as above	

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

Pilot House Lights—For Ferry Boats HEXAGON SHAPE

Made from 32 ounce copper (cold rolled). Spun ball top, shaped body joined to gether with braces inside and well soldered. Glass is 16 inch thick, rubber packing a around, then slid into a copper frame, which is held together by screws and wing nut Front hinge door, two light electric fixture on the inside. Made according to specifica tions.

Size Nos.	Height Overall Inches	Size of Lenses Inches	Diam. of Base Inches	Net Weight Lbs.	Brass	Each Copper
1	38	8½ x 15	15	55	\$250.00	\$275.00
2	53 1/2	8½ x 20	15	80	275.00	300.00

(Price does not include gilting)

Pilot House Light—For Small Size Ferry Boats

ROUND BODY WITH HEXAGON SHAPED PANELS

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

Size of Glass Inches

3% x 10

Height Overall

Inches

24



101/2

Price Each Polished Copp \$80.00

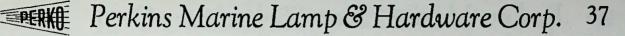
Anchor Staff or Pole Light

BRASS OR COPPER-ELECTRIC ONLY

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

Height Overall including Bails Inches 13½	Size of Lens Inches 4½ x 4½	Height Overall less Bails Inches 81/4	Diam. Base Inches 5%	Net Weight Each Lbs. 2½	Brass \$12.00	Each Copp \$15.0
						1000

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





Fisherman's Side Light

GLOUCESTER TYPE

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

Extreme Height Inches 16	Diam. Bottom Inches 10	Size of Height Inches 63/4	Lens Clr. Inches 9	Inside Lantern Used Monarch Tubular	Net Weight Per Pair Lbs. 23	Galv. Price Per Pair \$36.00
-----------------------------------	---------------------------------	-------------------------------------	-----------------------------	---	--------------------------------------	---------------------------------------

For combination oil and electric equipment

Fig. 346

Fisherman's Bow Light

GLOUCESTER TYPE

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

Extreme Height Inches 16	Diam. Bottom Inches 10	Height Inches 7	f Lens Cir. Inches 121/2	Inside Lantern Used Monarch Tubular	Net Weight Each Lbs. 12	Galv. Each \$20.00
For con	bination	oil and el	ectric equip	ment		21.50

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



Fisherman's Anchor Light

GLOUCESTER TYPE

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

Extreme	Diam.	Size o			Net Weight	
Height Inches	Bottom Inches	Height Inches	Diam. Inches	Inside Lantern Used	Each Lbs.	Galv. Each
17	10	7	8	Monarch Tubular	161/2	\$24.00

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

Fig. 562



No 1 2

No 1 2

Tri-Color Trawler Light

FOR STEAM TRAWLERS

Constructed to comply with the international laws govern-ing running lights on steam trawlers. Equipped with three fres-nel lenses, red, white and green, of regulation size. Oil lamp is equipped with brass fount, No. 2 hinge burner, wick and chim-ney. Electric lamp is equipped with Edison base standard sock-ets (medium screw base), one or two light.

	Extreme Heig Fig. 407 15 171⁄2	ht Inches Fig. 40S 31/4	Size of Base Inches 7 x 73/4 91/4x10	Height Lens Inches 63/4 73/8	
•	Galvani: Each \$30.0 34.0	0	Polished Brass Each \$40.00 44.00	Pollshed Copper Each \$45.00 49.00	



Fig. 408 Electric Burning



Fig. 574

.00 39.00



Regulation Pier Lights 180 DEGREE RUBY FRESNEL LENS OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC Made in accordance with specifications of the U. S. Department of Commerce reg-ulations for lighting of bridges and piers, of heavy gauge sheet metal, 180 degree rub_ fresnel lens, oil or electric equipment, brackets for mounting, made with back door an-sliding fount, as shown on Fig. No. 24, page 26, or with swivel fount, Fig. No. 282 going through bottom. Medium screw sockets in electric equipment. Extreme height, 21 inches Meas. of base, 9 inches x 10 inches Size of lens, 7 inches x 12½ inches OIL OR ELECTRIC Columnized Brass Width of back, overall, 141/2 inches Copper Each Galvanized Each

\$32.00

28.00

With back door With swivel fount

Can also be had with flat top electric only, same price For combination Oil and Electric, add \$2.00 to above prices. electric only, same price as above. With green or clear lens if desired at above prices.

Fig. 59

Mid Channel Span Light

360 DEGREE GREEN FRESNEL LENS

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

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

Extreme height, 17 inches Diameter of base, 91/2 inches Size of lens, 7 inches x 8 inches Net weight, each, 18 pounds

With hinged top, for oil or electric With hinge top, combination oil and electric With flat top, for electric only as Fig. 32 With Ruby, Blue or Clear Lens if desired a	25.00	Brass Each \$38.00 39.50 34.00	Copper Each \$43.00 44.50 39.00
	25.00	34.00	

Fig. 80



Regulation Draw Bridge Light

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

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

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

Each

Galvanized Each \$40.00

inches Brass Each \$60.00

Copper Each \$80.00

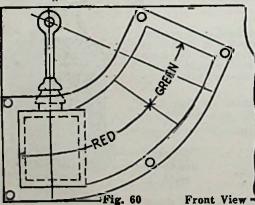
Each \$38.00

35.00

\$44.00

40.00

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



Lift Bridge Lights

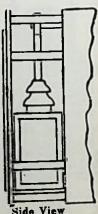
OIL OR ELECTRIC

COMPLETE AS ILLUSTRATED

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

Extreme height, 23 inches Extreme width, 30 inches

Oil or electric, galvanized \$150.00



Side

Perkins Marine Lamp & Hardware Corp. 39

CAST BRONZE BRIDGE AND PIER LIGHTS

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

Pier Light

180 DEGREE RED LENS



Fig. 1005

Height, less handle	9% in.
Width, centers of holes	9% in.
Height, centers of holes	5% in.
Width base	8¼ in.
Depth base	7½ in.
Opening in top	5 in.
Height lens	7% in.
Circum. lens at bull's eye	12½ in.
Weight	19½ lbs.

Black nickel finish \$34.00 Furnished with green lens when lesired at same price.

	Pie	r L	igh	t
	ON F	PEDE	STA	L
180	DEGR	EE]	RED	LENS



142. 140	
eight overall	19 in.
iameter pedestal, pipe size	1 in.
iameter base	5 in.
ther sizes, see Fig. 1005	Each
lack nickel finish	\$40.00

Mid-Channel Light 360 DEGREE GREEN LENS

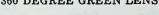




Fig. 1006

Height, less handle	9½ in.
Diameter body	8 in.
Width, ends of guides	11% in.
Size slot in guides	%x1 in.
Opening in top	5 in.
Height lens	7 in.
Diameter lens	8 in.
Weight	22 lbs.
Black nickel finish	Each \$36.00

Obstruction Light ON PEDESTAL 360 DEGREE RED LENS

SU DEGREE RED LENS



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

Black nickel finish \$42.00

Shorter pedestals furnished if desired, price as above. Longer pedestals than standard, add \$.30 per inch.

Draw Bridge Light RED AND GREEN PANEL

RED AND GREEN PANEL GLASSES 360 DEGREE CLEAR LENS

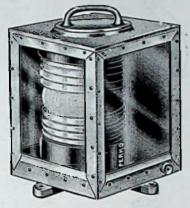


Fig. 1007

Height, less handle	11½ in.
Width of body	10% in.
Depth of body	10% in.
Width centers of holes	11½ in.
Height and width panels	
in clear	8% in.
Opening in top.	5 in.
Height fresnel lens	7 in.
Diameter fresnel lens	8 in.
Weight	51 lbs.
	Each
Black nickel finish	\$50.00
Extra panel glasses	2.00

Lift Bridge Lights

180 DEGREE RED AND GREEN LENSES



Height overall 21½ in. Other sizes, see Fig. 1005 Black nickel finish \$70.00

40 Perkins Marine Lamp & Hardware Corp.



Globe—Distress or Signal Light

TURRET TOP OIL OR ELECTRIC

Constructed of high grade, heavy materials. Colored globes are solid color-no-painted. Heavy wire guards protect globe.

		WIJ	TH CLEAR	GLOBE		
Trade Size Inches	Diam. Globe Inches	Height Overall Inches	Net Weight Each Lbs.	Galvanized	-Price Each Brass	Coppe
	6	11	4	\$ 7.00	\$10.00	\$12.0=
6 8	8	141/	č	8.00	12.00	14.0
		141/2	6			
10	10	22	12	15.00	20.00	23.0
	WITH	RUBY, GRE	EN, BLUE	OR FROSTED	GLOBES	
6				S 9.00	\$12.00	\$14.00
8				10.00	14.00	16.0
X						

For combination Oil and Electric-6 and 8 inch sizes, add \$1.00. For combination Oil and Electric-10 inch sizes, add \$1.50.

Fig. 44

Navy or Life Boat Lantern

OIL ONLY

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

Fig. 49	Height of Lantern Inches 11	Diam. of Base Inches 5%	Size of Globe Inches 4 x 6½	Net Weight Each Lbs. 3
Vith Clear Glo Vith Ruby, Gre Vith Electric F	een or B		Galvanized Each \$4.00 5.50 .50	Pol. Brass Each \$7.00 8.50 .50

Superior Bulkhead Lantern



With Outside Sliding Glasses

Heavy gage metal. Guard riveted to frame and rein forced with solder. Glasse easily removed by sliding through top opening is frame. Large size brass oi fount, hinge burner, lip chim ney and large nickel plate reflector.

Fig. 46

Size	Body	Height		
Front	Slde	Overall	Galvanized	Brass
Inches	Inches	Inches	Each	Each
7±11	5¾x11	14	\$10.00	\$15.0
8x12	61/2x12	151/2	12.00	17.0
9x13	73⁄4x13	16	14.00	19.0

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

SI

V

OIL ONLY

Engineer's Hand Lantern

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

Height of Diam. Landern of Base Inches 9½ 4½	Size of Globe Juches 2½ x 4¼	Net Weight Each Lbs. 1	
Fig. 50 (ith Clear Globe (ith Ruby, Green or Blue Globe (pring Founts Only-All Brass	Galvanized Each \$3.00 4.30	Pol. Brass Each \$5.00 6.30 	Fig. 312

Above items desired CHROMIUM PLATED, add 40% to Brass or Copper Prices



Universal Wall Lamp

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

of Back of Fount H Inches Inches	Net eight Price Each Each Lbs. Complete 1½ \$2.00
-------------------------------------	---



Equipped with hinge burner, wick, and lip chimney.

No. 1 2	Pollshed Each \$5.00 6.00	Chrome Plated Each \$7.00 8.00	Height Inches 121/8 121/2	Exten- slon Inches 61/4 7	Capacity Fount Fints 1 11/4	v Diam. Wall Plate Inches 4 ¹ /2 5	
---------------	------------------------------------	--	------------------------------------	---------------------------------------	---	---	--

Philadelphia Cabin Lamp

DOUBLE SWING—WEIGHTED BASE ALL BRASS



With gimbel arrangement, cast bronze wall plate and removable fount. No. 2 burner and chimney.

		Chrome		Exten-	Capacity	Wall
No. 2	Polished Each \$8.00	Plated Each \$10.00	Helght Inches 14	sion Inches 81/2	Fount Pints 11/2	Plate Inches 4 ³ / ₈ x2

Maine Cabin Lamp STIFF BRACKET—NON SWING ALL BRASS



Fig. 136

With cast bronze bracket riveted to body, removable fount. No. 2 burner and chimney.

No. 2	Polished Each \$6.00	Chrome Plated Each \$8.00	Height Inches 12		Capacity Fount Pints 11/2	Wall Plate Inches 3x17/8
----------	----------------------------	------------------------------------	------------------------	--	------------------------------------	-----------------------------------

Midget Cabin Lamp DOUBLE SWING-WEIGHTED BASE ALL BRASS



Fig. 166 Designed primarily for use in the cabins of small cruisers, made as small and compact as possible. Lamp body set in gimbal ring, will retain upright position regardless of motion of the boat. Kouipned with No. 1 human wilk and 4 inch line

Equipped with No. 1 burner, wick and 4 inch lip

chimney.

	Extension	Diameter	Capacity
Height	From Wall	Wall Plate	Fount
Inches	Inches	Inches	Pints
9	5	4	1/2
	ished		e Plated
Without	With	Without	With
Smoke Bell	Smoke Bell	Smoke Bell	Smoke Bell
Each	Each	Each	Each
\$5.00	\$6.10	\$7.00	\$8.75
	-	-	

Newport Cabin Lamp DOUBLE SWING—WEIGHTED BASE ALL BRASS



Fig. 141

The ideas in construction of this lamp were suggested by Sparkman & Stevens, famous yacht designers. This lamp is of very sturdy construction, refined ap-pearance and minimum practical extension from wall. Furnished with burner, wick and chimney. Diameter of wall plate 2% inches. Chrome Exten- Capacity

No. Midget 1 2	Polished Each \$5.50 5.75 6.50	Plated Each \$7.50 7.75 8.50	Height Inches 9 12½ 12½	sion Inches 5 51/2 6	Fount Burn Pints Num 1/2 1 1 1 1 1/4 2	

Smoke Bell and Arm



Made of spun brass, cast brass arm. Diameter of bell, 6 inches

Polished	Chrome				
Brass	Plated				
Each	Each				
\$1.10	\$1.75				
Bells, specify	whether for				

When ordering Smoke Bells, specify No. 1 or 2 cabin lamps.

Fig. 128

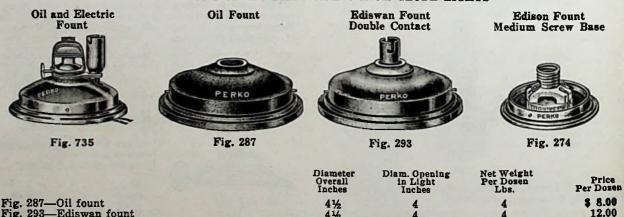




	Diameter Overali Inches	Diam. Opening in Light Inches	Net Weight Per Dozen Lbs.	Price Per Dosen
Fig. 286—Oil founts	3%	3 🚠	11/2	\$ 8.00
Fig. 291-Ediswan founts	3%	318	2	12.00
Fig. 292-Edison founts	3%	318	2	12.00
Fig. 290—Candelabra founts	3%	3 👬	2	12.00
Fig. 736—Oil and Electric founts	3 3/4	3 70	41/2	18.00
Fig. 733—Oil and Electric founts	31/2	3%	3 3/4	18.00
Fig. 733—For Oil only	31/2	3 %	3	8.00

Brass Swivel Founts

FOR CLASS 1 STERN LIGHT AND 6 INCH GLOBE LIGHTS



4

44

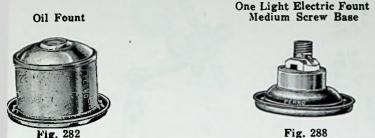
12.00

18.00

4%

Fig. 287-Fig. 293--Ediswan fount -Edison fount -Oil and Electric fount z. 274 Fig. 735

Brass Swivel Founts FOR TURRET TOP LIGHTS LARGER THAN CLASS 3



electric sockets.

Fig. 282

Oil Fount

Fig. 283

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

Nos.	For Side Light Nos.	For Boy Light Nos.	w For Anchor Light Nos,	Opening in Light Inches	Base of Fount Inches	Burner Size Nos.	Fig Brass Each	g. 282 Copper Each	Brass Each	Copper Each	Brass Each	Copper Each
1	8 & 9	14		3 %	4 3/4	1	\$1.00	\$1.50	\$1.50	\$2.00		
2 3	10 11	$\begin{array}{c} 15\\ 16\end{array}$	22, 22 1/2 & 85 23 & 86	3¾ 4¾	4 ¾ 5 ¾	22	1.00 1.50	1.50 2.00	1.50 2.00	2.00 2.50	\$2.50	\$3.00

Brass Spring Founts

FOR TURRET TOP LIGHTS LARGER THAN CLASS 3

One Light Electric Fount Medium Screw Base

Two Light Electric Fount

Medium Screw Base

Fig. 289

Made of heavy gauge brass with brass spring clips to hold fount in lamp. Furnished for oil only, or one light and two light electric burning. Two light electric fount, Fig. No. 301. Fig. 301 not illustrated, same as Fig. 300, but with two light

Fig. 300

Nos.	For Side Light Nos. 8 & 9 10 11	For Bow Light Nos. 14 15 16	For Anchor Light Nos. 22, 22½ & 85 23 & 86	Opening in L4ght Inches 378 378 434	Base of Fount Inches 4% 5%	Burner Size Nos. 1 2 2	Fla Brass Each \$1.00 1.00 1.50	5. 283 Copper Each \$1.50 1.50 2.00	Fig Brass Each \$1.50 1.50 2.00	5. 300 Copper Each \$2.00 2.00 2.50	Flg Brass Each \$2.50	\$3.00
6	11	16	23 & 80	4 74	0 78	4	1.00	2.00	2.00	2.00	42.00	40.00

Sliding Founts for Back Door Lights **One Light Electric Fount**

Medium Screw Base



Fig. 284

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

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



Fig. 281

Two Light Electric Fount Medium Screw Base

Fig. 285

Brass \$2.50

2.50

3.00

PRICE BACH

Copper

\$2.75

2.75

3.25



Engineer's Lantern Globes

Standa:	rd equipm	ent in ou No. 50.	r engi-
		1101 001	2% in.
			2% in.
			4¼ in.
		en	6 lbs.
	PER DO	ZEN	
Clear	Ruby	Green	Blue
\$3.00	\$8.00		\$8.00
Colored painted.	l globes al	re solid col	lors, not
	neer's lar Diameter Diameter Height ov Net weigh Clear \$3.00 Colored	neer's lantern, Fig. Diameter of top Diameter of bottom Height overall Net weight, per doz PER DC Clear Ruby \$3.00 \$8.00 Colored globes au	Diameter of bottom Height overall Net weight, per dozen PER DOZEN Clear Ruby Green \$3.00 \$8.00 \$8.00 Colored globes are solid col

Fig. 263

Navy Lantern Globes



	This g	globe is	standa	rd equ	ipment
in	Navy	lanter	n, Fig.	No. 4	9.

Diameter of top	2½ inches
Diameter of bottom	4 inches
Height overall	6½ inches
Net weight, per dozen	9 pounds

	PER DOZEN				
Clear \$5.00		Ruby 1 8.00	Gre \$18		Blue \$18.00
Color	hod	alahaa	970	solid	Colors

obes are solid colors, not painted.

Fig. 262

Double Contact Socket FOR DE-LITE RUNNING LIGHTS

BASE THREADED %" I. P. S.

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

Price, each

Fig. 276

Socket Holder

FOR DE-LITE RUNNING LIGHTS

BRASS

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

\$.50

Electric Converter

ALL BRASS

For converting old style oil lamps into oil and electric lamps. Just re-move 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 \$.75 of complete conversion see Fig. 736

Fig. 458 For illustration of complete conversion see Fig. 736.

Fig. 277

Anchor Light Bracket

FOR RIGGING-CAST BRONZE



Fig. 356

A cast bronze arrangement whereby the weight of th anchor light furnishes sufficient leverage to hold an stay in any part of the rigging it is desired. Furnishe complete with snap hook and two lanyard eyes fc hoist and release. Length Inches

Each \$1.75

Weight
Ounces
9

PERKO

Color Shield

5

FOR COMBINATION LIGHTS DIVIDES RED AND GREEN LENSES

Used on class 1 com	bination lights, Fig. Ne
Made of heavy gau, iron.	ge brass or galvanize
Galvanized Each	Polished Brass Each
\$.50	\$.75

Fig. 130

T Brackets

FOR LARGE SIZE RUNNING LIGHTS



Made of cast iron, hot galvanized. Standard equipment on large size running lights. Height overall, 7% inches, width overall, 5% inches, width bracket, 2½ inches.

Galvanized Cast Iron, Each

\$1.00

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

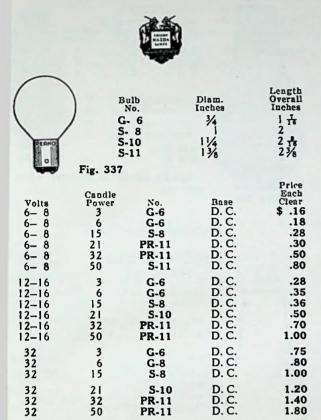
	No. 1	-For clas	sses 1, 2 a	nd 3 lights.	
	No. 2	2—For int	ermediate	size lights.	
	Ne	Width	Height	Galvanized	Brass
100	No.	Inches	Inches	Each	
	1	1½	4 %	\$.30	\$.50
No.	2	2	6 %	.50	
lig. 131					

\$.36



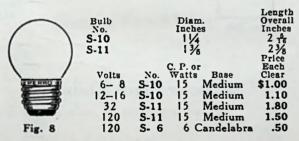
Perkins Marine Lamp & Hardware Corp. 45

Mazda Lighting Bulbs

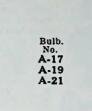


CA PERKA

FOR DOME AND BERTH LIGHTS







Len	gth
Ove	rall
	hea
	%
3	Ħ
- 4	Tr.

Dlam. Inches 2¹/8 2³/8 2⁵/8

Fig. 340

Volts	Watts	No.	Base	Clear Each	Frosted Each	Natural Blue Each
6 6 6	15 25 50	A-17 A-19 A-21	Medium Medium Medium	\$.75	\$.60 .60 .80	\$1.50
12 12 12	15 25 50	A-17 A-19 A-21	Medium Medium Medium	.75	.60 .60 .80	1.50
32 32 32	15 25 50	A-17 A-19 A-21	Medium Medium Medium	.75	.50 .50 .60	1.50

New Double Filament Bulb

MOGUL BASE FOR THREE WIRE SYSTEM

120 VOLTS

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

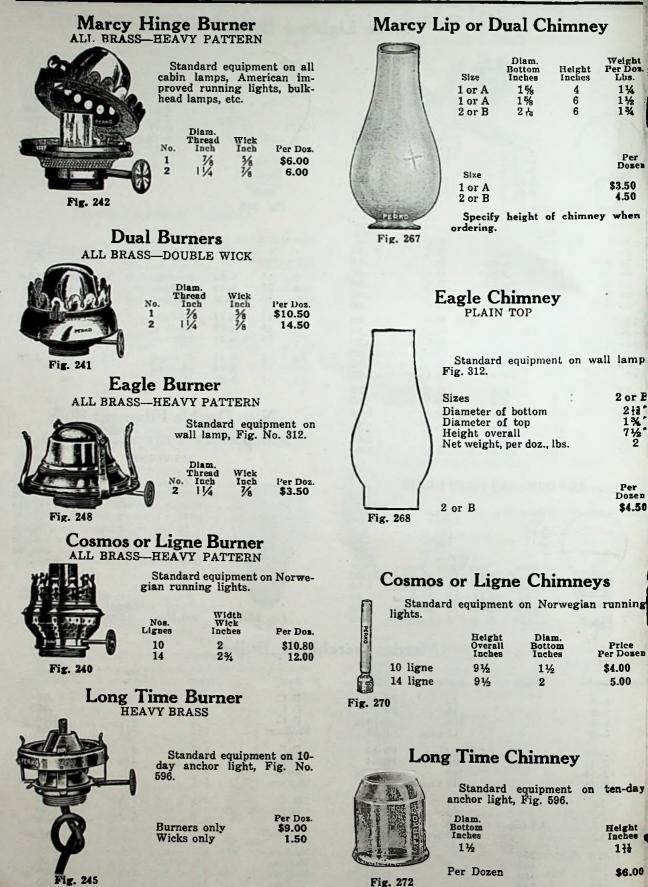
Should one filament burn out it will be indicated on the telltale panel, the other filament can be immediately switched into use.

	Freeh	Height Overall	Diam. Inches
Watts	Each	Inches	Inches
50-50	\$4.80	5	31/8
100-100	5.00	5	31/8

Mazda Searchlight Bulbs

Volts	Watts	Candle Power	No.	Base	Diam.	Length Overall	Price Each
6-8		32	PR-11	D. C.	1 1/4	2 1	\$.50
6-8		50	PR-11	D. C.	1 3/8	2 3/8	:80
6-8		100	G-16 ¹ / ₂	D. C.	2 11	3	2.50
6-8		18 amp.	P-25	Medium	3 1/8	4 3/4	5.00
12–16		32	PR-11	D. C.	1 1/4	2 1	.70
12–16		50	PR-11	D. C.	1 3/8	2 3 /8	1.00
12–16		100	G-16 ¹ / ₂	D. C.	2 11	3	2.50
12–16		18 amp.	P-25	Medium	3 1/8	4 3 /4	6.00
32 32 32 32 32	3.5 amp.	32 50 100 8 amp.	PR-11 PR-11 G-16 ¹ / ₂ P-25	D. C. D. C. D. C. Medium	1 1/4 1 3/8 2 1/8 3 1/8	2 1 2 3/8 3 4 3/4	1.40 1.80 3.50 6.00
120	250		G-30	Medium	33/4	5 18	4.00
120	400		G-30	Medium	33/4	5 18	6.00
120	500		G-40	Medium	5	7 1/4	9.00
120	500		T-20	Medium	21/2	5 1/4	7.00







Perkins Marine Lamp & Hardware Corp. 47



Mirror Reflectors

PARABOLIC High grade parabolic mirrors designed for long distance projection of concentrated beam of light. Standard equipment in "PERKO" Searchlights, Figs. 480, 297, 529.

		Each
8	inch diameter	\$18.00
10	inch diameter	20.00
12	inch diameter	25.0 0
14	inch diameter	34.00

Fig. 427

No.	Diam. Thread Inch	Wick	Per Dos
0	1/8	1/2	\$1.70
1 2	11/4	1/8	1.90 2.90
		70	

Brass Burner

Fig. 246

Wicks



Per	r Dozen
at Wicks, No. 0, 1/2 inch wide	\$.30
at Wicks, No. 1, 5% inch wide	.35
at Wicks, No. 2, 7/8 inch wide	.45
smos Wicks-10 ligne	1.30
smos Wicks—14 ligne	1.40
icks for long time burner	1.50

Made of heavy sheet iron, well reinforced, painted red and green. Collapsible when

Length Inches

18 24

Fig. 302

Side Light Screens

PERKO

Metal Reflectors

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

4¾ inch diameter	Each \$2.00
6¼ inch diameter	3.75
7% inch diameter	4.25
10 inch diameter	7.50

Fig. 428

ERKO

Convex Front Lens



FOR SEARCHLIGHTS

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

4% inch diameter	Each
6 inch diameter	1.0
7¼ inch diameter 10 inch diameter	2.7

Fig. 429

White Opal Shades



Fig. 266

Inches Inside Diam. Top Outside Diam. Top 5 10 Diam. Bottom Height Overall 5 \$2.50 Price Each

.80 .00 .00



Fig. 316

not in use.

Class

23

Emergency Light WITH RUBBER SUCTION HOLDER

> Small and compact, easily stored but always ready for use in emergencies, used as a trouble light when working around motor or inside of hull, can also be used as emergency riding light when necessary, furnished with 10 ft. wire, bulb and battery clips, ready for instant use.

Price Each

\$1.50

Price Per Pair

\$2.50 3.00

Fig. 798

F	resnel	Ball C		
gl	With three obe, as illions. 600, 601	ustrated.	ss ferrule, For pole lig . 846.	spun on shts, Fig.
	atside diam eight overa ameter of et weight, o	leter ll opening		1% in. 112 in. 13 in. 1 oz.
	Clear Each \$.55	Ruby Each \$.90	Green Each \$.90	Blue Each \$.90
	With t		ETER ase, as illust os. 470, 491,	
	422. Outside d Height o Diameter	liameter verail of openin of thread		2½ in. 2% in. 1½ in. 2 in. 6 ozs.
Fig. 250	Clear Each \$.75	Ruby Each \$1.00	Green Each \$1.00	Blue Each \$1.00
	3 INC	H DIAME	TER	
-	With t pole ligh 506.	hreaded b ts, Fig. N	ase, as illus los. 508, 422	trated, for , 470, 498,
Fig. 251	Outside o Height o Diameter	verall of openir of thread	g	3 in. 3 in. 1½ in. 2 in. 7 oz.
110. 201	Clear Each \$.75	Ruby Each \$1.00	Green Each \$1.00	Blue Each \$1.00
	3 INC	H DIAME	ETER	
	For mas Outside Height o Diamete Diamete Net weig	t lights, F diameter verall r of openi r of thread tht, each	1	, 105. 8 in. 3 % in. 2 ¼ in. 2 ¾ in. 10 ozs.
Fig. 249	Clear Each \$.90	Ruby Each \$1.25	Green Each \$1.25	Blue Each
112. 240			\$1.25	\$1.25
-		CH DIAM th threade	d base, as	illustrated.
	lor m	ast lights	, Fig. Nos.	564, 565.
Fig. 253	Heigh Diam Diam	de diamete at overall eter of ope eter of thr reight, eac Bub Eacl \$1.5	ening read h y Green Each	4 ¹ / ₄ in. 3 ⁷ / ₈ in. 2 ¹ / ₈ in. 10 ozs. Blue Each \$1.50
		CH DIAM		41.00
	Wi	th thread	ed base for	mast and
	stern	lights, Fi de diamet	gs. 112, 113,	309. 3½ in.

Special Mast Light Globe

234 INCH DIAMETER

PERKO

9	With th mast light	readed bas s Figs. 488		trated f-
PLAY 9	Outside Di Height Ov	erall		2¾ 1 5½ 1
	Diameter Diameter Net Weigl			1 % 2 % ≣ 11 ⊂
	Clear Each	Ruby	Green Each	Blue Each
ig. 77	\$.80	Each \$2.00	\$2.00	\$2.00

Holophane Ball Globe

2% INCH DIAMETER FOR FIXTURES AND POL

LIGHTS-CLEAR

Fig. 254	With threaded bra opening. Fits cabin 81 and 554. Outside diameter Height overall Diameter of opening Net weight, each		Fig. 2 1	N: 343
	PRICE With Ferrule \$1.50	EACH Without \$1.0		e

Holophane Shade



Fig. 255

With threaded brass ferru	
around top opening. Fits ca	ıbin 1
tures, Fig. Nos. 83 and 553.	
Outside diameter	4
Height overall	1 %
Diameter of top opening	7/8
Net weight, each	3 c
PRICE EACH	
With Ferrule Without Fer	rule
\$1.40 \$.90	

Holophane or Frosted Dome Glass

-	g. 257	Fits doi 387, 555, 29	me lights, Fi 4, 295, 296, 46	g. N 0.
Trade Size Inches 3 4 5 6	Diam. Overali Inches 2% 4 5 6	Depth Inches 5% 5% 1½ 134	Net Weight Each Ounces 1 2 4 6	P E \$

Holophane Dome Glasses

DEEP	Fits	dome I	ignt, rig. 1	NO. 1
Fig. 258	Outside Dlam. Inches 4 6	Depth Inches 1% 2%	Net Weight Each Ounces 3 11	FEIS



With thr	eaded	base	for	mast	and
stern lights	, Figs.	112,	113,	309.	
Outside dia	meter				6 in.
Height over	rall			1	5 in.
Diameter o	f open	ing		23	4 in.
Diameter o	f thre	ad		3	a in.
Net weight				11/2	lbs.
Clear			Green		Blue
Each	Each		Each]	Each
\$1.20	\$2.30		\$2.30		\$2.30

Fig. 106

Fresnel Lenses FOR SIDE AND COMBINATION LIGHTS FOR MASTHEAD LIGHTS-225 DEGREES PEANO Fig. 259 Fig. 256 eide Cir. Height Dia. of Over- of Bull's all Back Fre Ruby or Outside Circum. Back Eye In. In. Green Each Clear Each For Lights No. Diam. of Back Inches of Bull's Eye Inches Height Height Overall Inches 55/8 65/8 7 In. Clear Each For 2% \$.55 utboard Comb. Lights 21/2 3 51/2 313 3% 3% \$1.00 1 \$5.00 lass 1 Comb. Lights lass 2 Side Lights .80 6.00 41/4 2 4 3/4 1.50 1.105% 5% 5% 6% 7% 8.00 411 lass 3 Side Lights 5% 2.00 1.353 17 a. 8 Side Lights o. 9 Side Lights i. 10 Side Lights i. 11 Side Lights inch Face Side Light 6¼ 8½ 8¾ 4% 2.70 3.70 6% 4.20 7 9% 11½ 9¾ 8.00 FOR STERN LIGHTS-135 DEGREES 8% 7% 8.00 inglish or Norwegian Side Lights 7 10 1/2 12 1/4 \$8.00 FOR BOW LIGHTS-180 DEGREES Fig. 269 Outside Circum. Fig. 260 of Bull's Eye Inches 7 Height For Diam. Diam. of Back Inches 51/2 51/2 71/2 Fielght Overall Inches 55/8 65/8 73/8 Lights No. Clear Each Cir. Outside Diam, Height of Overall Back Inches Inches of Bull's 4 \$5.00 Eye Clear Inches Each Col. Each 7 6.00 5 For 91/2 6 8.00 3% 31/4 51% \$1.75 lass 1 Bow Lights \$ 1.10 lass 2 Bow Lights lass 3 Bow Lights 4 1/4 5 1/4 4 位 4 % 6½ 7¾ 1.10 1.75 1.35 2.25

Globe Light Globes



Fig. 264

Standard equipment in our globe lights, Fig. No. 44. Colored globes are red, green and blue, solid colors not painted. Frosted globes can also be furnished.

	Dla	ameter	Height Overall	Clear	Frosted or Colored
Size	Top	Bottom	Inches	Each	Each
6 8	4 8	31/8	6 1 7 1/2	\$1.50 2.50	\$3.50 4.00
10	53/8	53/8	101/8	4.00	6.00

FOR ANCHOR LIGHTS-360 DEGREES

51/2

6% 7%

8%

5%

7% 7%

8¾

814

6

91/2

9½ 12½ 9¾

21

10%

4.00

5.00

6.00

7.00

6.50

12.00

5.00

6.00

8.00

9.00

Jo. 14 Bow Lights

Jo. 15 Bow Lights Jo. 16 Bow Lights "Face Masthead Light

ing. or Nor. Mast Light 71/2

ing. or Nor. Stern Light 71/2



For	Height Overall Inches	Diam. Outside of Rim Inches	Clear Each	Colored Each
Class 1 Stern Lights	3%	3 14	\$.75	\$ 1.10
lass 2 and 3 Anchor	0 /0	0.10	•	
Lights	41/4	4	1.10	1.65
No. 22 Anchor Lights	5 3%	5%	3.00	5.50
No. 221/2 Anchor Lights	6%	51/4	4.00	7.00
No. 23 Anchor Lights English or Norwegian	7	7½	5.60	10.50
Anchor Lights	7½	91/4	12.00	



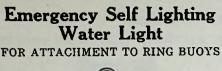




Fig. 843

Price

Each

\$5.00

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

> Weight Pounds

3

Size Overall Inches 5x8

Distress	Outfits
Diatresa	Jutilia



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

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

Price per outfit, complete	\$7.50
Flares Only-Per Dozen	4.20
Cans Only-10½ inches hi	gh-Price Each 5.00

Height does not include cover, but price does.

Axe Brackets

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



Fig. 325

Japanned Steel Polished Brass



Hooks Only Per Dozen \$1.20 2.00 **Distress** Outfits

FOR MOTOR BOATS AND SAIL BOATS MOISTURE PROOF SIGNALS AND CONTAINER 10 RED FLARE SIGNALS



Fig. 514

Many boat owners do not realize the importance c having distress signals on board ready for instant us until an emergency arises, then it is often too late. This outfit should be on every boat and the extrem

This outfit should be on every boat and the extrem low price puts it within reach of every ones pocketbool This outfit consists of ten 2 minute moisture proc

This outfit consists of ten 2 minute moisture proc red flares packed in a moisture proof container. Per Outfit Complete \$1.7

Bread Breakers



Heavy galvanized shee iron, double scamed edges well soldered, cast bronz cover and ring, thick rubbe gasket, water-tight. tw folding handles. Ever, breaker fully tested beforleaving factory.

Diameter cover, 5 inches

-			
	Fig. 155		
Capacity	Size	Weight	Pric
Lbs.	Inches	Lbs.	Eac.
25	12 x 12 x 18	13	\$5.5
40	15 x 15 x 21	15	6.0
50	15 x 15 x 24	18	6.5
60	15 x 15 x 30	19	7.0
80	24 x 24 x 24	32	8.0
100	24 x 24 x 30	40	8.5



Price Per Set

\$2.50

Extra Gaskets

Each

\$.22

Bread Breaker Caps NEW STYLE CAST BRONZE

Complete with rubber gas ket and ring for fitting ts tank, cut threads.

Outside Diam.	Inside Diam.	Weight
Cover	Opening	Each
Inches	Inches	Pounds
53/4	43/4	2



Copper Flashlight Case

WATERTIGHT-INSULATED

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

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

Price Each \$3.00 Length Inches 10 Inside

Dlameter

Inches

2 🕌

Fig. 132

Match Container



WATERTIGHT

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

Length Inches 51/4	Inside Diamete Inches 37/8

Fig. 133



Fig. 85

Price Each

\$.90

containing sailmaker's palm, needles, sail twine, marline, marline spike, and wax.

Ditty Bags

Complete, Each \$3.25

A waterproof canvas bag

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

Water Breakers

ROUND OAK



Fig. 1001

A water breaker containing at least one quart of ater for each person must be carried in every lifeboat.

Capacity Gallons	With Galvanized Floops Each \$2.90
10	3.90
15	4.40
20	5.25

Boat Bailers

GALVANIZED



Fig. 180

Made of black steel, hot galvanized after completed, handle riveted to body. Diameter, 8¼ inches.

Weight, per doz., 12 lbs.

Price each

Automatic Boat Drain CAST BRONZE—PLAIN

For use in life boats. Made of heavy cast bronze, with sponge rubber ball valve. Cast bronze cover with chain attached, threaded 113 inches, No. 14 thread.



Complete Caps Only Complete With Chain Each Each \$2.50 \$.85

Dlam. Opening Inches 11/4

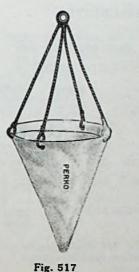
Diam. Flange Inches 35/8

\$.90

Sea Anchors and Cans APPROVED BY THE STEAMBOAT INSPECTION SERVICE

Balls Only Per Dozen

\$1.50



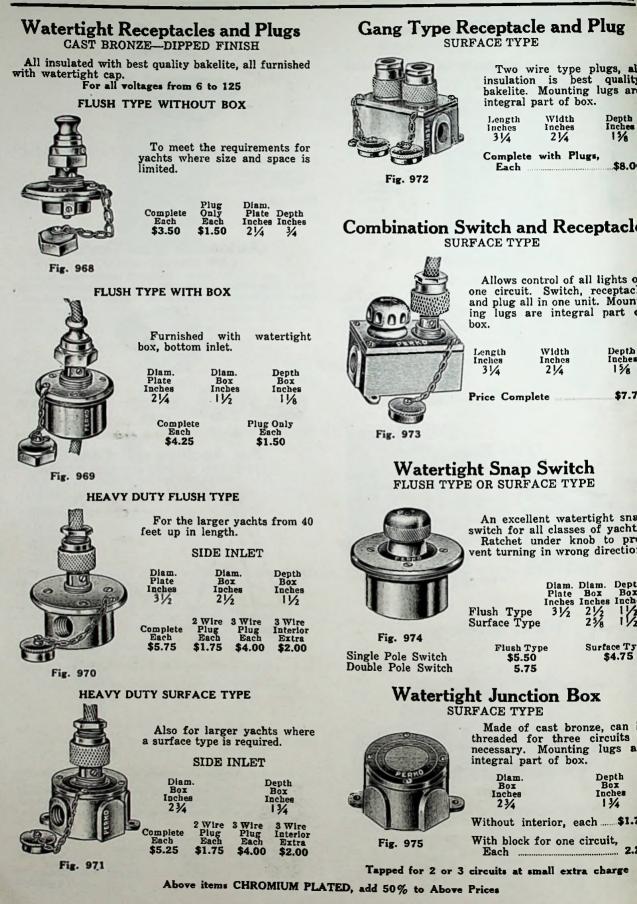


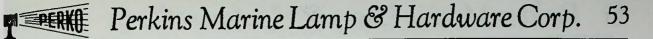
Sea anchor, Fig. 517, is made of good quality heavy weight canvas.

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

Diameter Capacity of Anchor of Can Inches Quarts 24 4	Anchor with Can Complete Each \$5.40	Anchor Only Each \$3.60	Can Only Each \$1.80
30 4	7.80	6.00	1.80







Watertight Connection

DOUBLE CONTACT

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

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

All Metal Plug





Fig. 425 Nickel Plated Each Chromium Plated Each

\$1.30

1.30

\$1.10

1 10

Polished Brass Each Socket Only Plug Only ŝ .90 .90

Watertight Connection DOUBLE CONTACT



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

olished	Nickel	Chromium
Brass	Plated	Plated
Each	Each	Each
\$1.50	\$1.75	\$2.00

Composition Interiors Only Per Set, \$.70

Flush Deck Socket WATERTIGHT

P



(nn)

Fig. 399

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

cover.

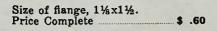
Fig. 357

Price Each\$.80

Plugs and Sockets

DOUBLE CONTACT

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





Mogul Socket PORCELAIN

FOR 3 WIRE SYSTEM

Used with our double filament bulb, Fig. 532.

Fig. 533

Each

\$1.50

Composition Connector

DOUBLE CONTACT



Fig. 749

Brass Case Connector

DOUBLE CONTACT



Metal caps and hard rubber body. Price, each\$0.60 Metal clad throughout. Price, each\$0.70

Price Each\$0.50

Bakelite Base Socket

SINGLE OR DOUBLE CONTACT



- Diameter base, 1% inches. No.
 - Height, 1 inch. Each 20 Double Contact ... 21 Single Contact40 .40

Fig. 472



Single End Socket

DOUBLE CONTACT

Fig. 747 Price Each

\$.15

Double End Socket

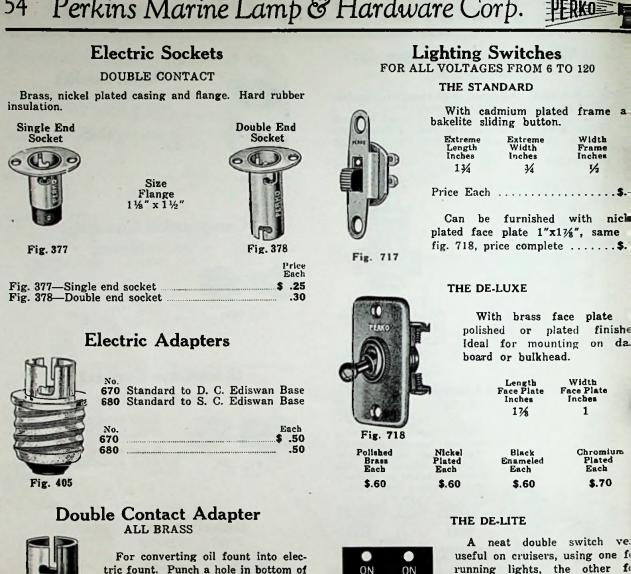


WITH ADJUSTABLE NUTS DOUBLE CONTACT

Price Each \$.35

Fig. 748







tric fount. Punch a hole in bottom of fount and screw adapter in place of oil burner.

Price per dozen

\$4.80

Double Contact Plugs

COMPOSITION OR ALL METAL



Composition Fig. 746

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

Fig. 746—Composition, each Fig. 383-All Metal, each



All Metal Fig. 383

..\$.15 .25

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

With brass face plate polished or plated finishes.

Length	Width
Face Plate	Face Plate
Inch.s	Inches
24	11/4

Fig. 719 Polished Brass

OFE

\$1.25

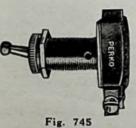
🔵 ρεκκο 📹

OFF

Black Chromium Nickel Plated Each Enameled Each \$1.25 \$1.25

Plated Each \$1.40

TOGGLE TYPE FOR THRU THE DASH MOUNTING



It is only necessary drill a 1/2" hole in day for mounting.

Composed of bakeli and brass furnished cor plete with 2 lock nuts a 6 inch wire leads. Price Each

Furnished with neck or 17 inches long. Speci length of neck wh ordering.

HEAVY DUTY-PUSH AND PULL TYPE

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

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

Knife or Battery Switches

UPRIGHT TYPE

No.

1

2

Fibre

Base

Each

\$.35

.45



PERKE

No

1

10

3 Singl

4

Fig. 70

Single Pole, Single Throw

2 Single Pole, Double Throw ...

	Each
1 point	t\$0.40
2 point	t 0.80
3 point	t 1.20
4 point	t 1.60
Please	specify finish of

plate when ordering.

0



_	
Fig. 121 Per 100	Fig. 1075 Per 100
\$1.10	\$1.30
1.10	1.30
1.20	1.45
1.20	1.45
1.40	1.70
	Per 100 \$1.10 1.20 1.20

Fig. 121





Brass Cable Straps FLAT TYPE FOR LEAD COVERED CABLE BRASS

Brass Straps

A very handy and useful article, used extensively on

all types of boats for fastening copper tubing, control wire casing, and electric cable to bulkheads, floors, etc.

Fig. 1076



Inside Measurements Inches 1 × 1

Fig. 1076 Per 100 \$3.00



Cable Outlet CAST BRONZE



Fig. 424

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

Pollshed	Nickel	Chromium
Brass	Plated	Plated
Each	Each	Each
\$.50	\$.70	\$1.00

Duplex Electric Cable DOUBLE RUBBER COVERED

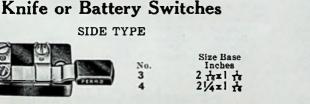
The cable we use in wiring all of our outside electric

fittings such as pole lights, etc. Stranded cable is protected by double rubber insula-tion, size is $\frac{1}{12} \times \frac{1}{12}$ inches.





Fig. 184



Size Base

Inches 2 10x11/4

35/8×1 1

Porcelain Base Each

\$.20

.32

F1g. 74	
Single Pole, Single Throw Single Pole, Double Throw	

3

SIDE TYPE

Dashboard Lamp

BRASS-NICKEL PLATED

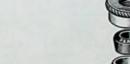
WITH SWITCH

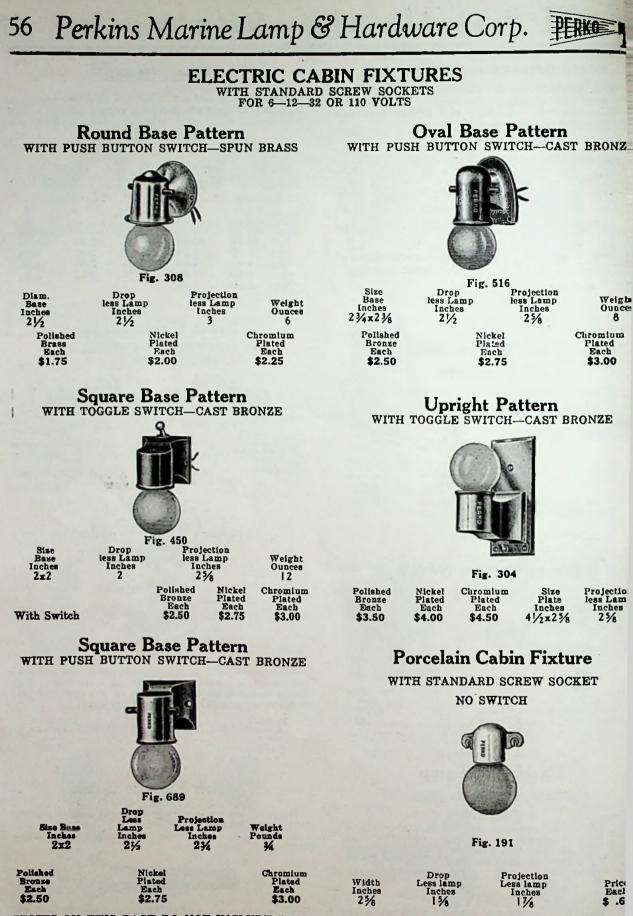
A neat lamp for use on dashboards of runabouts, or any place where a small lamp of this type can be used. Ediswan double contact socket. Siz Weight

	Base Inches	Each Oz.
	1 1/8 x 1 1/2	11/2
h		\$.90

100 foot coils

Per Coll \$5.50





PRICES ON THIS PAGE DO NOT INCLUDE BULBS. WHEN ORDERING BULBS, SPECIFY VOLTAGE A CANDLEPOWER, FROSTED OR CLEAR.

Junior Fixtures

WITH DOUBLE CONTACT SOCKET TURN SWITCH-CAST BRONZE



Fig. 605

Bronze Each	Nickel Plated Each \$2.75	Chromium Plated Each \$3.00	Size Base Inches 13/4x13/4	Drop less lamp Inches 2	less lamp Inches 2	
----------------	---	--------------------------------------	-------------------------------------	-------------------------------------	-----------------------------	--

Indirect Lighting Fixtures

CAST BRONZE WITH STANDARD SCREW SOCKET



Fig. 847

A truly handsome fixture giving the modern indirect non glare lighting effect, can also be used in the reverse position as a berth light, takes up small space yet roomey enough to accommodate a 50 Watt bulb. Size Extends Chromium

Bronze	Plated	Plated	Base	from Wall	
Each	Each	Each	Inches	Inches	
\$4.00	\$4.50	\$5.00	5x6	3	

WITH DOUBLE CONTACT SOCKET

CAST BRONZE



Fig. 848

Same type as Fig. 847 above, but of a smaller size for small boats using low voltage double contact sockets, will accommodate up to a 50 candlepower RP-11 bulb.

Polished	Nickel	Chromlum	Size	Extends	Pollshed	Nickel	Chromium	Size	Extension
Bronse	Plated	Plated	Base	from Wall	Bronze	Plated	Plated	Base	from Ceiling
Each	Each	Each	Inches	Inches	Each	Each	Each	Inches	Inches
\$3.50	\$4.00	\$4.50	41/2x4	2	\$5.00	\$5.50	\$6.00	31/2x2	25%
40.00	+	+							

PRICES ON THIS PAGE DO NOT INCLUDE BULBS. WHEN ORDERING BULBS, SPECIFY VOLT-AGE AND CANDLEPOWER, FROSTED OR CLEAR.

"Brightlite" Cabin Fixture

WROUGHT BRASS-ELECTRIC FOR BULKHEAD OR CEILING



Fig. 578

Constructed entirely of brass, with frosted glass panels. Front of fixture containing the glass panels is hinged at one end and held securely closed by neat eye hook.

Interior is immediately accessible for changing of bulbs. No screws to remove and lose. All furnished with toggle switch.

No. 1. Furnished with one double contact socket. Will accommodate up to 50 C. P. bulb.

No. 2. Furnished with two double contact sockets and 3 way switch. Will accommodate up to two 50 C. P. bulbs.

No. 3. Furnished with one medium screw socket. Will accommodate up to 50 watt A-21 bulb.

No. 4. Furnished with two medium screw sockets and 3 way switch. Will accommodate up to two 50 watt A-21 bulbs.

No. 1	Polished Brass Each \$2.75	Plated Each \$3.25	Chromium Plated Each \$3.50	Length Inches 5	Width Inches 3	Depth Inches
2	4.00	4.50	5.00	51/2	31/8	2 3/8
3	4.50	5.00	5.50	7	31/8	3
4	5.75	6.50	7.25	7	43/4	31/4

Note that in our Nos. 3 and 4 fixtures, ordinary house lighting bulbs are used, nothing special or hard to obtain.

Double Ceiling Fixture

CAST BRONZE-STANDARD SCREW SOCKETS WITH TOGGLE SWITCH



No. 3

No.

3 ۵

No 56

No. 5

6

Holophane Cabin Fixture

WROUGHT BRASS-DOUBLE CONTACT SOCKET



For any voltage from 6 to 120. Complete with holophane glass globe. and throw switch.

> Diameter base, 21% inches Drop, 4% inches Extends from wall 4% inches Diameter globe, 3 inches Weight, 8 ounces

Pollshed Nickel Chromium Brass Each Plated Each Plated Each With Throw Switch \$2.50 \$3.00 \$3.50

Holophane Cabin Fixture

WROUGHT BRASS-DOUBLE CONTACT SOCKET

For any voltage from 6 to 120. Complete with holophane glass shade, and throw switch.



W

Diameter base, 21% inches Drop, 4% inches Extends from wall 4% inches Weight, 8 ounces

	Fig. 8	3	
'ith	Throw	Switch	

Polished	Nickel	Chromium
Brass	Plated	Plated
Each	Each	Each
\$2.25	\$2.75	\$3.25

Holophane Cabin Fixtures

CAST BRONZE-DOUBLE CONTACT SOCKET FIXTURE WITH OPEN SHADE



Complete with toggle switch. Wired for voltage from 6 to 120. Base, 1% x 1% inches Drop, 3½ inches Extends from wall 4¼ inches ces

Fig. 553

Polish Bron Eac

\$3.0

leight,	9	ounces
red ze h O		Nickel Plated Each \$3.25

Chromium Plated Each \$4.00



FIXTUR	E WITH GL	OBE
Drop, 4½ Extends	from wall 34	
Polished Bronze Each \$3.25	10 ounces Nickel Plated Each \$3.50	Chromium Plated Each \$4.25

Bulbs are not included with above fixtures. When ordering bulbs, specify voltage and candle power.

Dome Lights

CAST BRONZE

With improved toggle switch and nickel plated reflector. Globe held in place by threaded collar and products of the state tected from breakage by two rubber gaskets. Nos. 1, 3 and 5 fitted with double contact socket. Nos. 2, 4 and 6 fitted with standard screw socket.

WITH DEEP HOLOPHANE GLOBE



		Fig. 454		
No. I 2	Diam. Base Inches 5 8	Depth Inches 3 41/4	Diam. Globe Inches 4 6	Weigt Lbs. 21/2 41/2
No.	Polished Bronze Each	Pla Ea	tkel ted ich	Chromiur Plated Each \$ 7.50
2	\$ 6.50 10.00	\$ 7 10	.00	11.50

WITH SHALLOW HOLOPHANE GLOBE •

199	i	7	
Diam.	Fig. 555	Diam.	
Base	Denth	Globe	Weigt
Inches	Depth Inches	Inches	Lbs.
5	1%	4	21/4
8	2 %	6	41%
Polished		kel	Chromlur
Bronze		ted	Plated Each
Each \$ 6.50		ach 7.00	\$ 7.50
10.00		.50	11.50
10.00	11	1.50	11.00

WITH SHALLOW FROSTED GLOBE

¢	PARIS -	9	
Diam. Base Inches 5 8	Fig. 460 Depth Inches 1% 2%	Diam. Globe Inches 4 6	Weigb Lbs. 2 4
Polished Bronze Each \$ 6.50 10.00	Pla En \$ 7	ckel ated 7.00 9.50	Chromius Plated Each \$ 7.50 11.50





The New "Perko" Marine Searchlights

LOW VOLTAGE-6-8, 12-16, 32, AND 110 VOLTS-HIGH POWER

BODIES-are constructed of heavy wrought brass; stands, yokes, and control mechanism are all cast brom REFLECTORS-a glass mirror reflector, which projects a highly concentrated beam of light a greater c tance than any other projector of its class.

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

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

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

SOCKETS AND BULBS-all sizes of searchlights are furnished with standard screw sockets. Bulbs f nished as standard equipment in various voltages are as follows-6-8 volts, 18 amps.; 12-16 volts, 18 amps.; 32 vol 8 amps; 120 volts, 250 watt. Can also furnish 120 volts, 400 or 500 watt bulbs for small additional cost.

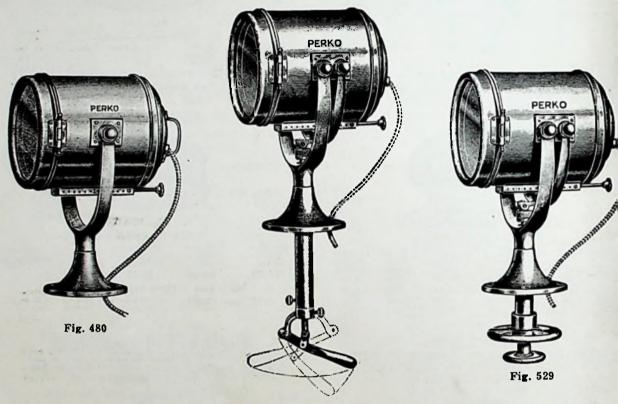


Fig. 297

Size Inches 8 10	Diameter Reflector Inches 8 10	Range up to ¾ mile up to 1 mile	Beam Candle Power 350,000 590,000	Length of Body Inches 12% 14%	Clearnnce of Glass in Door Inches 7% 9%	lieight Overall Cabin Control Inches 24 28	Height Overall Deck Type Inches 18 22	Net Weight Cabin Control 31 lbs. 36 lbs.	Diamet of Bas Inche 6% 6%
12	12	up to 1½ miles	700,000	17	11 %	30	24	48 lbs.	8½
14	14	up to 2 miles	850,000	19	13 ½	34	28	56 lbs.	8½

PRICE EACH

Size Inches 8 10 12 14	Polished Brass \$ 70.00 85.00 100.00 125.00	Fig. 480 Nickel Plated \$ 76.70 92.50 108.50 135.00	Chrom. Plated \$ 82.50 99.50 116.75 145.00	Polished Brass \$ 85.00 100.00 120.00 150.00	Fig. 297 Nickel Plated \$ 91.70 107.50 128.50 160.00	Chrom. Plated \$ 97.50 114.50 136.75 170.00	Polished Brass \$ 90.00 105.00 125.00 155.00	Fig. 529 Nickel Pinted \$ 96.70 112.50 133.50 165.00	Chro Pla \$102 119 141 175

NOTE-SPECIFY VOLTAGE AND SIZE WHEN ORDERING

"Perko" "Beam" Searchlights

The bodies of these searchlights are made of heavy brass. Control mechanism, stands and yokes are all cast 10D2e

REFLECTORS—are heavily plated with chromium and highly polished. This plating gives a very high ght efficiency and is more non-corrosive than most other plating processes in use on salt water.

FRONT LENS-is convex and mounted in brass frame, which is easily removed.

WIRING-is protected by flexible metal hose and waterproof insulation.

PILOT HOUSE CONTROL-is of the lever type, which is quick acting and easy to handle.

BULBS—are 6-8, 12-16 volt, double contact, 50 candlepower. For 6 or 12 volt 100 candlepower bulbs, add 3.00 each. For 32 volt 50 candlepower bulbs, add \$1.00 each. For 32 volt 100 candlepower bulbs, add \$2.50 each.

THESE SEARCHLIGHTS WILL THROW A POWERFUL BEAM UP TO ½ MILE DISTANCE, DEPEND-NG ON WEATHER CONDITIONS.



Dlam. Diam Heigh Size Reflector Overall Base Base Inches $3\frac{1}{2}$ $5\frac{1}{2}$ $5\frac{1}{2}$ Inches Inches Inches 21 6 6 8 24 27 10 10 Nickei Plated Polished Chromium Plated Size Brass Each In. *6 Each Each \$28.00 \$22.00 \$25.00 6 27.00 30.00 33.00 8 35.00 39.00 41.00 **8 51.00 45.00 49.00 10 67.00 70.00 62.00

Sunbeam

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

** This searchlight has mirror reflector showing a clearer beam with greater distance of projection, 100 C. P. bulb.

Height Overall

Inches

N P

\$

23

Brightbeam

Diam. Reflector

Inches 71/2

Polished

Brass Each

\$30.00

Size

Inches

8

Size In.

8

Sunbeam DECK TYPE

PERKO	Size Inches 6 8 10	Diam. Reflector Inches 6 8 10	Height Overall Inches II I4 I7	Diam. Base Inches 31/2 51/2 51/2
K	In. 5 8 10	Polished Brass Each \$20.00 25.00 34.00		Chromium Plated Each \$25.50 32.00 42.00

Fig. 305

Superbeam DECK TYPE

PERKO	Size Inches 8	Diam. Reflector Inches 71/2		I Base Inches
	Size In. 8	Polished Brass Each \$16.00	Plated Each	Chromium Plated Each \$20.00

Λ Fig. 307

> Streamline Searchlight BOUTS AND OUTBOARD MOTOR BOATS

PERKO	Diam. Body Inches 43⁄4	Height Overall Inches 7½	Siae Base Inches 21/2x5
R	Polished Brass Each \$10.00	Nickel Plated Each \$11.50	Chromium Plated Each \$12.50
Fig. 548			

NOTE-SPECIFY VOLTAGE AND SIZE WHEN ORDERING

3.00





Canvas	Covers
FOR SEAR	CHLIGHTS
To fit Figs. : Inches 8 10 12 14	297, 480, 529. Each \$4.00 4.50 5.00 6.00
To fit Figs. Inches 6 8	305, 306, 310. Each \$2.00 2.50

ickel lated Each	Chromium Plated Each	
33.00	\$37.00	

Diam. Base Inches

33/



	FOR	RUNA
		1
ALC: N	A CONTRACTOR	
12	Authorities a	100
COLUMN 2	STREET, PLAN.	APRIL 1

Star Oil Compasses

WITH SAPPHIRE JEWEL BEARINGS

The result of many years of experience in magnetic compass manufacture. An inexpensive yet guaranteed accurate instrument that will pass the most rigid U. S. inspection, unequaled for use on dories, lifeboats and motor boats.

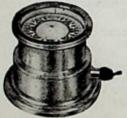
Furnished in open dial with polished bar magnet, and sapphire jewel bearing.





Diam. of Dial Inches 2	Each \$ 7.00	Size of Box Inches 45%	Weight Complete Pounds
21/2	9.00	53%	21/4
3	10.50	61/4	31/2
- 4.	16.50	71/4	41/1
5	21.50	81/2	61/2

Star Underlighted Binnacle Compass POLISHED BRASS



A combination of compass and binnacle that is new. The usual gimbal ring is eliminated and the deep dipping dial illuminated from below results in a compact and neat compass that has proven popular on various types of small vessels.

Fig. 988

Diameter Card Inches	Each	Height Inches	Diameter Base Inches
4	\$50.00	5	61/2
5 -	55.00	6	71/2
6	60.00	63/4	81/2

Star Underlighted Binnacle Compass WITH SPHERICAL DOME POLISHED BRASS

A deluxe yacht and cruiser outfit to please a most exacting clientele. The spherical dome added to the patented compensator for correction of deviation with which this compass is furnished results in a practical instrument in keeping with the present day demand for modernism.

	ig. 989			
Diam.	Without	With		Diam.
Card	Compensator	Compensator	Height	Base
Inches	Each	Each	Inches	Inches
5	\$ 90.00	\$110.00	71/2	71/2
6	100.00	120.00	81/2	81/2
Figs.	988 and 989 p	atent Nos. 1840	133 and 2	018536

"Star" Spirit Compasses

WITH CENTRAL BUOYANCY DIAL REGULAR AND UNDERLIGHTED



Fig. 987

Furnished with flat card and four magnet dial. T type of compass is specified and used exclusively the U. S. Navy. A very high grade instrument seco to none in quality and dependability.

For use on large motor boats, yachts and oce going vessels.

Diameter Card Inches 4 5 6 7 8	Regular Type Each \$22.50 25.00 28.00 31.00 38.00	Underlighted Type Each \$36.00 38.50 43.00	Mahogany Box Only Each \$4.50 5.00 6.00 7.00 8.00
7	31.00 38.00		7.00 8.00
9	48.00		9.00

Prices Above Do Not Include Box

Binnacles

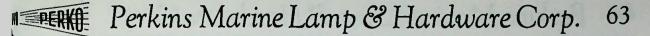
WROUGHT BRASS-TWO PIECE



Fig. 444

A well made but low priced binnacle, electric light with metal shield over bulb to eliminate glare. A point of light illuminates proper portion of compass

For Size Compass Inches 3 4 5	Height Overall Inches 6 7 8		Diameter Base Inches 5 3/8 6 1/2 7 1/2	Betweet Compass Supporti Inches 5 1/8 6 3/8 7 3/8
Compass Inches 3 4	Pollshed Brass Each \$10.00 12.00	thout Con Nickel Plated Each \$11.00 13.20	npass Chromlum Plated Each \$12.00 14.50	With Compass Add Each \$ 9.50 15.00
5	14.00	15.50	17.00	20.00



Skylight Binnacle CAST BRONZE—FOR 4 OR 5 INCH COMPASS

Body is one solid casting with cast bronze fittings. Il parts screwed together. Broken glasses can easily replaced. Hexagon skylight head, with six glasses, cluding two marked with sighting lines for getting arings. Complete with night hood electric lamp.

Cruiser Binnacle

WROUGHT BRASS-ONE PIECE Spun from heavy gauge brass, white enamel finish in-side. Equipped with or without liquid compass. An electric lamp for night running which illuminates the proper portion of the compass but will not disturb the helmsman's vision in any way.



Skylight Binnacle

Same as Fig. 530 above but spun from extra heavy rass throughout. Complete with night hood and electric .mp.



No 2

No. 2

Cruiser Binnacle WROUGHT BRASS-TWO PIECE

When closed looks exactly like Fig. 2033 above. Removable head allows easy access to compass. Furnished complete with electric fixture and lamp for illuminating compass at night. Head is held fast to base by bayonet catch which is invisible when closed.



Fig. 401

Distance

	For Size Compass Inches 21/2 or 3	Fig. 534 Height Overall Inches 8 3/4	Diameter Base Inches 71/4	Supports Inches 51/4	For Size Compass Inches 3 4 5	Height Overall Inches 6½ 7½ 8¾	Diam. Base Inches 634 9 10	Between Compass Supports Inches 5% 6% 7%	Weight Less Compass Pounds 1 1 ½ 2¾	
-T.d.	4 or 5 Polished Brass Each \$25.00 30.00	12 Nicke Plated Each \$28.5 34.0	0	7 /4 Chromium Plated Each \$32.00 37.00	For Size Compass Inches 3 4 5	Polished Brass Each \$14.50 16.00 17.50	lthout Comp Nickel Plated Each \$15.50 17.20 19.00	Chromium Plated Each \$16.50 18.50 20.50	With Compass Add Fach \$ 9.50 15.00 20.00	

PRICES ON FIGS. 530 AND 534 DO NOT INCLUDE COMPASS. FOR INFORMATION ON COMPASS REFER TO G. 487 AND FIG. 987.

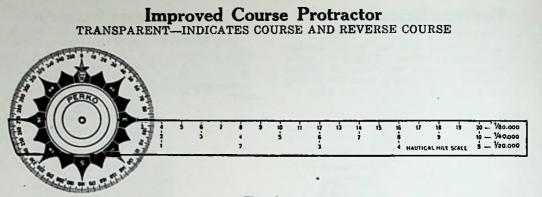


Fig. 706

We believe this to be the most practical course protractor on the market today. Note that the mileage show on the protractor arm applies to the various mileage scales used on all U. S. C. & G. S. Costal and Harbor Chart Note that the arm is extended on the short end to the degree markings to indicate simultaneously the revers course when desired.

A precision built instrument, accurate in detail and containing no unnecessary markings which usually obscu chart positions and detail.

Each \$2.50

Extreme Length Inches 231/4 Diam. Compass Card Inches 63/4



NICKEL SILVER



Fig. 693

With adjustable and reversible steel needle points and straightening device.

Length, 6 inches, each\$1.50

Compass Light ALL BRASS

ELECTRIC-6, 12 OR 32 VOLTS

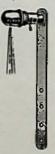


Fig. 707

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

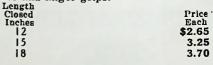
Polished Brass Each \$1.75	Nickel Pisted Each \$2.00	Chromium Plated Each \$2.25	Height Overall Inches 8	Weight Ounces 5
			~	,

Parallel Rules NATURAL EBONY FINISH



Fig. 686

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



Yacht Log Books 100 PAGES—NEAT PRINTING



Fig. 708

- No. 1 Binding: Imitation leather, pebble finish, sta board green color, gold letters, without go border. Each \$2.
- No. 2 Binding: Imitation leather, pebble finish, pil blue color, gold letters and gold border. Each
- No. 3 Binding: Genuine leather, natural light to color, dark brown lettering and indented bords Each \$7.5

For name of yacht on book, add \$1.50.

"Perko" Zinc Marine Oilers

BRASS BOTTOM

Made of heavy gauge pure zinc, spring brass bottom, machine cut thread, interchangeable spouts. 3 4 No.

8 ozs. 12 ozs. Capacity Diameter 4 in. 41/2 in. Length spout 4 in. 6 in. Wt. per gross 40 lbs. 48 lbs.

PRICE PER GROSS No. \$56.00 å 70.00 EXTRA SPOUTS 4 inch \$16.00

18.00

6 inch

Fig. 326

Signal Torch



Made of heavy gal-vanized iron. Handle riveted to body, cast iron claws for holding wick.

Diameter, 5½ inches Height, 15 inches Weight, 2% pounds

Price each \$4.00

Fig. 177



Chart Cases

Fig. 372 lade of galvanized iron or sheet copper, water-tight er, folding handle on side for carrying.

am. hes	Length Inches	Galv. Each	Copper Each
	36	\$3.60	\$7.00
	36	4.50	8.00

NOTE

lave you noticed greatly reduced rices on chromium plated items?

Gasoline Funnels

GALVANIZED-FOR OUTBOARD MOTORS AND RUNABOUTS



Fig. 589

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

Diam. Top Inches 8	Height Inches 9	Capacity Gallons 1/2	Price Each \$1.40
	-	14	•

Gasoline Funnel GALVANIZED

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

		Height Inches	Capacity Gallons	Price Each
8	7/8	13	11/2	\$1.40
10	7/8	131/2		1.60

Fig. 196

Eastern Funnel

NARROW TOP-FOR NARROW SPACES



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

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

PRICE EACH

Galvanized

\$1.40

Fig. 318

Pitch Payers



Heavy galvan-ized iron, double seamed and soldered, handle riveted to top, inside strainer riveted to body.

Weight Lbs.

136

Diam



"PERKO" BRONZE GEAR TYPE PUMPS

NON CORROSIVE BRONZE THROUGHOUT WITH TOBIN BRONZE SHAFTS AND GEARS

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

Single Lower Drive Shaft

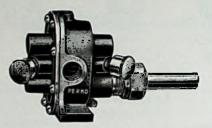


Fig. 684

Single Upper Drive Shaft

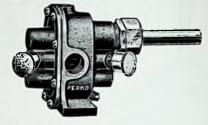


Fig. 682

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Con- nection Inches	e Size Drive Shaft Inches	Approximate Weight Each Pounds	Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pip Con- nection Inches	e Size Drive Shaft Inches	Approxi Weight I Pound
2	\$10.00	\$12.00	1⁄4	1/2	33/4	2	\$10.00	\$12.00	1⁄4	1/2	33/4
3 4	11.50 12.50	14.25 15.50	3/8 1/2	5/8 5/8	51/2 6	3 4	11.50 12.50	14.25 15.50	3/8 1/2	5/8 5/8	51/2 6
7 9	15.00 16.50	18.75 20.00	1 3/4	5/8 5/8	9 91⁄2	79	15.00 16.50	18.75 20.00	3⁄4	5/8 5/8	9 91/2

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



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

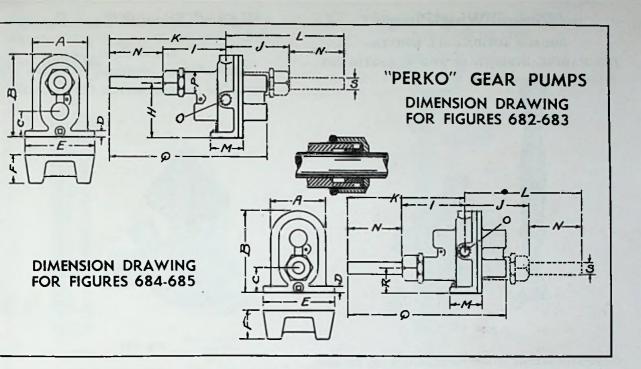
Herringbone gears operate in only one di tion which must be specified, either clocky or counter clockwise.

Double Lower Drive Shaft				1	Doubl	e Upper	Driv	e Sh	aft		
		Fig. (585					Fig.	683		
Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Con- nection Inches	Drive	Approximate Weight Each Pounds	Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pip Con- nection Inches	Drive	Approxi Weight
2	\$11.50	\$13.75	1/4	1/2	41/2	2	\$11.50	\$13.75	1/4	1/2	41/2
3 4	12.50 13.75	15.50 17.00	3/8 1/2	5/8 5/8	61/4 63/4	34	12.50 13.75	15.50 17.00	3/8 1/2	5/8 5/8	61/4
7 9	16.50 17.50	20.00 21.50	13/4	5/8 5/8	91/2 93/4	79	16.50 17.50	20.00 21.50	13/4	5/8 5/8	91/1 93:4

For special lengths of shafts add .60c each, and then .55c for every six inches or fraction thereof ber standard length.

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

Perkins Marine Lamp & Hardware Corp. 67



DIMENSION TABLE FOR "PERKO" GEAR PUMPS

Pump No	A	в	с	D	Е	F	н	I*	J*	K*	L*	м	N	Ot	Р	Q	R	S
2	23/8	31/2	$1\frac{23}{32}$	3/16	21/8	1733	23/8	25%	29%	4156	4156	1 33	$2\frac{1}{8}$	1⁄4	1	6¾	11/16	1/2
3	23/4	4	17/8	1⁄4	31⁄2	1 9 3 2	25/8	21/8	27/8	53/8	53/8	1 = 3	21/2	3⁄8	11/8	65%	11/8	5/8
4	23⁄4	4	17/8	1⁄4	35/8	13/8	25/8	31/6	31/6	5%	5 %	1%	21/2	1/2	11/8	75%	11/8	5/8
7	31/4	5¾	2%	1⁄4	4	11/2	3%	31/16	31/6	5%	5%	11/16	21/2	3⁄4	11/8	73%	1%	5⁄8
9	31/4	53%	2%	1/4	4	1%	3%	33/6	3%	51%	51%	115%	21/2	1	11/8	7%	1%	5/8

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

CAPACITY TABLE FOR "PERKO" GEAR PUMPS

1200 REVOLUTIONS PER MINUTE

1800 REVOLUTIONS PER MINUTE

_			P 1	RE	SS	UR	E			
ap	0~!!	b	20 lb.		40	40 16.		lb	80 15	
	G P M	HP	GPM	HP	GPM	HP	GPM	UP	GPM	ПР
	3.	1/6	2.62	1/6	2.25	1⁄4	1.8	1⁄4	1.45	1/3
	5.	1/6	4.25	1/4	3.7	1/8	3.2	1/2	2.8	3⁄4
	7.5	1/4	6.3	1/3	5.4	1⁄2	4.6	3⁄4	3.8	1
	13.5	1⁄3	11.5	1/2	9.9	3⁄4	8.75	1	7.7	11/2
	17.	1/2	15.5	3/4	14.1	11/4	12.7	11/4	11.2	11/2

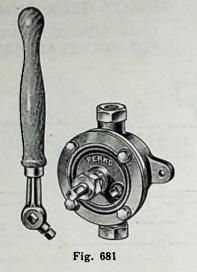
Pump No.	01	ь.	20 1	b	40	16.	60	lb.	8016	
	GPM	пр	GPM	HP	GPM	HP	СРЫ	HP	GPM	HP
2	4.5	1/4	4.2	1/4	3.85	1/3	3.45	1/2	3.1	1/2
3	7.5	1/3	6.75	1/2	6.1	3⁄4	5.6	1	5.25	1
4	11.	1/2	10.	3/4	9.	3⁄4	8.2	1	7.3	11/2
7	16.*	*1/2	15.*	1*	13.3*	*1	12.*	11/2*	10.8*	*11/2
9	20.*	*3⁄4	18.75*	1*	17.7*	*11/2	16.5*	2*	15.3*	*2

*At 1500 R.P.M. llons per minute flow of clean water— 63° F.—no pipe friction. tor recommended shown by H. P. indicated. ad in feet = 2.3 x lbs. pressure.



"Perko" Wing Pumps

DOUBLE ACTION—ALL BRONZE FOR MARINE. INDUSTRIAL AND DOMESTIC USE



Constructed entirely of cast bronze, principally for use as a marine bilge pump, but is used in large quantities in the industrial field for pumping oil and gasoline, hot liquids, juices, etc.

The interior consists of a cast bronze wing which oscillates on a bronze shaft connected to handle. The wing has lubricated square flax packing set in grooves which runs on interior of drum and as no metal parts rub together this pump will last for years without noticable wear. Packing is very easily replaced.

EFFORTLESS OPERATION—HARDWOOD HANDLE

Price No. Each 0 \$16.50 1 18.50 2 21.50	Size Pipe Connection Inches 1/2 3/4	Overall Diameter of Body Inches 5 1/8 5 3/4 6 5/8	Capacity Per Minute Gallons 5 7 9 3/4	Approx. Weight Each 111/2 14 191/2
--	---	---	---	---

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

"Perko" Special Gear Pump

ALL BRONZE WITH SPUR OR HERRINGBONE GEARS FOR STAR MARINE MOTOR CONVERSIONS

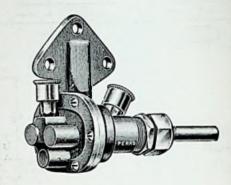


Fig. 804

This pump is designed primarily for Star and G motors, has a triangular bracket to fit the intake was manifold on the motor with water passage through bracket.

Furnished complete with grease cups, tobin bro gears and shafts, all bearings machined, all bear ends are solid, not soldered.

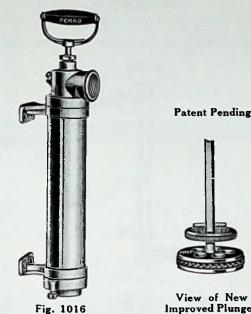
With Spur Gears Each \$10.00	With Herringbone Gears Each \$12.75	Connection Inches	Diameter Drive Shaft Inches	Weig Poun 4
Each \$10.00	Each \$12.75	Inches 3/8		E.

"PERKO" BRONZE GEAR PUMP PARTS

Pump No.	Size Pipe Con'c'n	Cover Each	Screws Each	Spur Gear Each	Herring- bone Gear Each	Body Each	Drive Shaft Each	Metal Pack Gland Each	Lock Nut Each	Pack Nut Each	Idle Gear Shaft Each
2	1/4"	\$1.75	\$.02	\$1.10	\$2.20	\$2.95	\$.85	\$.60	\$.33	\$.60	\$.55
3	3⁄8″	1.90	.02	1.25	2.85	3.00	.85	.70	.42	.65	.55
4	1/2"	2.30	.02	1.60	3.20	3.55	1.00	.70	.42	.65	.80
7	3/4"	2.65	.02	2.10	4.20	4.40	1.00	.70	.42	.65	.80
9	1″	3.55	.02	2.40	4.80	5.25	1.00	.70	.42	.65	.80

"Champion" Navy Bilge Pump BRASS CYLINDER-CAST BRONZE PARTS

IN SPERKA



View of New **Improved Plunger**

Truly a champion among bilge pumps. The improve-ent is so great that we can truthfully claim this pump ves greater capacity with less effort than any other

avy type on the market today. The plunger or "heart" of the pump is absolutely demachined brass with heavy square lubricated flav acking set in a groove. This packing is far superior in tion and durability to leather washers which have ever been fully satisfactory for salt water.

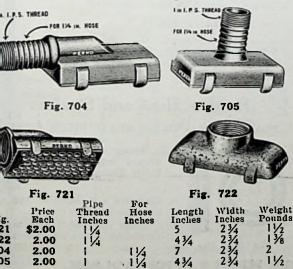
Furnished complete with brackets adjustable for starard or port mounting.

CAPACITY—20 GALLONS PER MINUTE.

Tested at 55 strokes per minute showing 11/2 quarts er stroke.

r Pipe	Pipe Thread Inches 11/2	Diameter Plunger Rod Inches 1/2
	r Pipe Thread Inches	Thread Thread Inches Inches

Bronze Navy Pump Strainers



43/4

2.00

1

11/2

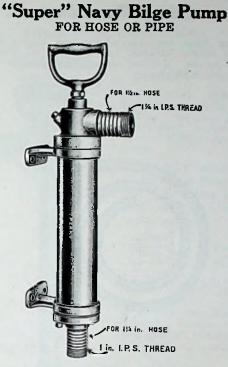


Fig. 701

This is our very popular "Champion" Pump improved by cast bronze integral fittings at inlet and outlet ends for connecting hose or pipe. Retaining of course our improved flax packed plunger and 1/2 inch plunger rod.

	Extreme		-Outlet Sizes-		
Each \$8.50	Length Inches 27	Pipe Inches	Hose Inches	Pipe Inches 11/4	Hose Inches 11/2

"Midget" Navy Bilge Pumps FOR HOSE OR PIPE

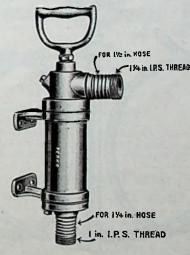
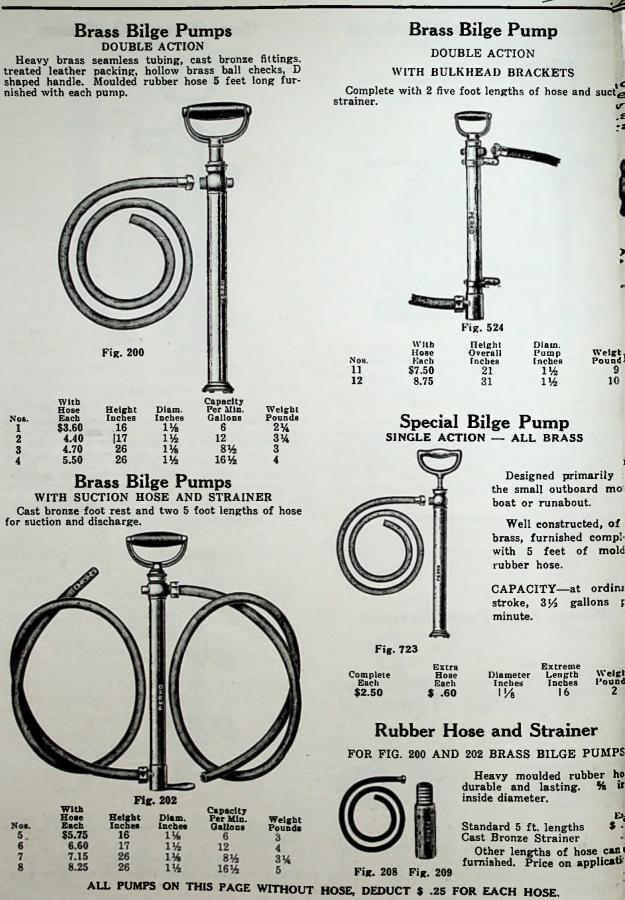


Fig. 702

Our regular pump reduced in length for boats requir-ing a large capacity pump to be installed where space is limited.

Each \$8.50	Extreme Length Inches 181/4	Diam. Cylinder Inches 23/4	Pipe	Hose	Pine	Hose Inches
		-/4		174	174	172



Trench or Bilge Pump

GALVANIZED

Aade of heavy tubing, formed from black steel and galvanized afterwards, water-tight and rustproof ms. Galvanized iron valves with oak leather clapper, od rod and handle, cone shaped oak leather plunger, per Fig. 239, long lengths are well reinforced with lvanized steel bands around body.

ALSO KNOWN AS CONTRACTOR'S PUMP

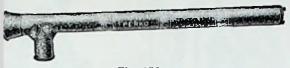


Fig. 156

ameter, inches2 $2\frac{1}{2}$ 3 $3\frac{1}{2}$ 4ice per foot\$.60\$.65\$.70\$.75\$.80Pumps shorter than 5 feet long charged as 5 foot. ngth measured overall.

Handy Bilge Pump GALVANIZED

With iron rod and handle, improved oak leather disc inger as Fig. 238, galvanized iron valve and top cap.

ខា	
2	
~AA	

Fig. 158 PRICE EACH

-	HIGH BROI	*	
	Discoutor	- 4 D	
136 in.	2 in.	246 In.	3 in.
		- /2	0.141
\$1.90	52.00		
1 90	2.00	\$2.50	\$2.75
2.15	2.25	2.50	2.75
2 20	2.40	2 70	3.10
2.60	2.70	3.00	3.50
	0.00		
2.70	2.80	3.15	3.75
2 80	2 90	9.95	4.00
3.00	3.10	3.50	4.30
	0.05	0 75	4.00
3.15	3.20	3./0	4.60
	14/2 1n. \$1.90 2.15 2.30 2.60 2.70 2.80 3.00 3.15	Diameter 1½ 1n. 2 ln. \$1.90 \$2.00 1.90 2.00 2.15 2.25 2.30 2.40 2.60 2.70 2.70 2.80 2.80 2.90 3.00 3.10	Diameter of Pump 1½ in. 2 in. 2½ in. \$1.90 \$2.00 \$2.50 1.90 2.00 \$2.50 2.15 2.25 2.50 2.30 2.40 2.70 2.60 2.70 3.00 2.70 2.80 3.15 2.80 2.90 3.25 3.00 3.10 3.50

Wizard Bilge Pump

WITH WOOD ROD AND LEATHER PLUNGER Galvanized with Galvanized Valve (I)

N.		PRI	CE E	ACH		
	Length Overall		Diama			
1	Feet	2 in.	Diamet 216 in.	er or P	31/2 in.	4 in.
	2	\$2.25	\$2.70	\$3.00		
186 M	21/2	2.35	2.70	3.00		
E hand	3	2.50	2.90	3.00	\$3.30	
R	31/2	2.65	3.00	3.10	3.30	\$3.60
	4	2.75	3.00	3.20	3.40	3.70
RI	41/2	2.85		3.30		
8	5	2.95	3.20	3.40		
	6	3.40	3.80	4.00	4.40	4.70
	Сор	per wi	ith Bro	nze V	alve	
24	Diameter				Price	
640-	Inches				Each	
6	2				\$6.00	
	21/2				6.50	
g. 344	3				7.00)

Above prices on copper pumps apply to all lengths up 5 foot inclusive. Longer lengths, price on application.

-ON ALL GALVANIZED PUMPS LISTED HEREWITH THERE IS A CHARGE OF \$2.00 FOR NOTE RATING.

Heavy Duty Bilge Pumps

SPIRAL LOCK SEAMED BODY 24 B. & S. Gauge Steel, Hot Galvanized After Forming



SOLDERED JOINTS

Galvanized cast iron bottom valve with heavy leather clapper, galvanized steel support for spout rivited to spout and body.

Especially recommended for use by Public Utilities, Contractors and Industrials where pumps are put to very severe use.

Inside Diameter Body Inches	Price Per Foot	
3	\$1.80	
4	2.25	

Length is measured overall. Pumps shorter than 5 feet charged as 5 feet long.

Fig. 724

Crank Case Pump DOUBLE ACTION—ALL BRASS

This has been sorely needed by motor boatmen, quick acting, double action pump for draining the crank case, the long flexible metal spout can be inserted in filler opening of crank case which can be drained very rapidly with no trouble; a short length of rubber hose clamped to outlet of pump will allow draining over-board or into any handy carrier. A continuous flow of oil is maintained on both up and down strokes.

Capacity per minute-2 Gallons

			PO	
Length Pump Overall Inches 171/2	Length Inlet Spout Inches 2 1/2	Fig. 146 Length Outlet Spout Inches I 3/4	Diameter Pump Inches I 1/8	Weight Pounds 21/2

 Price Each—Complete, as illustrated
 \$3.75

 Price Each—Complete except Spout
 3.00

 Price Each—Flexible Metal Spouts Only
 1.90

 Moulded Rubber Hose to fit Outlet Spout, .20 per foot
 Rubber hose not furnished as standard equipment.



Basin or Galley Pumps

CAST BRONZE, POLISHED, NICKEL AND CHROMIUM PLATED

With a finished mahogany handle which when all the way down will not pinch the hand against the upright Furnished with lock nut and two rubber washers.

These pumps have brass ball check in the plunger, and flapper valve at the bottom.

The handle is adjustable for operating from most convenient position.



Fig. 473 With High Spout Straight Base



Fig. 478 With High Spout Flange Base



With Low Spout Straight Base

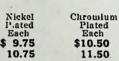
Fig. 479

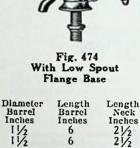
a C

TIME

Fig. 473-478 474-479







6

6

11/2

Threaded Spread For Pipe Handle Up Inches Inches Weiz Pour 14 31/33 1/2 13

New Basin Pump

WITH METAL LEVER HANDLE

A well made good looking pump with brass ball checks in plunger and at the bottom or intake. Adjustable handle for operating from most convenient position.

Basin Pump

WITH STOP COCK

Same pump as those above with cast bronze s cock. Furnished with straight or flange base, fla base furnished unless otherwise specified.

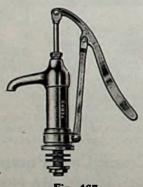




Fig. 525

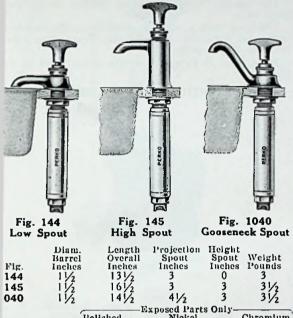
Spread Landle Up Length Threaded S For Pipe Ha Inches I Threaded Spread For Pipe Handle Up Inches Inches Length Neck ength We Pe Weight Barrel Inches Pounde Inche 131/2 14 21/2 1/2 Polished Chromiuz Plated Each Chromium Polished Bronze Plated Each Plated Each Bronze Each \$7.50 \$13.00 58 **ი**ი \$8.75 \$12.00 \$11.00

Tail Pieces for above pumps for attaching hose or lead pipe see Figs. 67 and 68.

Marvel Basin Pumps ALL BRONZE

Designed for beauty as well as simplicity, just as cractive as the water fittings in the modern home. urnished with brass ball checks in plunger and at ttom or intake.

Length of stroke is 5¼ inches. Inlet is threaded for % inch pipe. Capacity per minute, Low Speed Stroke-3 Gallons.



)	Exposed Parts O	nly
	Polished	Nickel	Chromium
	Bronze	Plated	Plated
Fig.	Each	Each	Each
144	\$6.00	\$6.50	\$7.75
145	7.50	8.25	8.75
040	7.00	7.50	9.50

Double Action Basin Pump

ALL BRONZE With double tubing and brass ball checks in plunger d bottom intake. Furnished with solid flange or

amp flange. Capacity per minute, Low Speed Stroke-31/2 Gallons.



Diam. Barrel Inches 11/8	Length Dp To Spout Inches 131/2	Projection Spout Inches 41/4	Inlet Pipe Thread Inches 3/8	Diam. Flange Inches 21/2	Weight Pounds 23/4
Fig. 373 374	Polished Bronze Each \$3.75 4.10		Nicke Plated Each \$4.10 4.50	i)	Chromium Plated Each \$5.10 5.50

Cruiser Basin Pump ALL BRONZE

With brass ball checks in plunger and bottom intake. Threaded for 1/2 inch pipe, neck is 21/4 inches long, weight, 3 pounds.



P	rojection
Height	of
to Spout	Spout
Inches	Inches
5	214

Double Action Galley Pump

Chromium Plated

Each

\$6.50

Diam. Barrel Inches

13/8

Nickel Plated Each

\$6.00

Polished

Bronze Each

\$5.50

BRASS TUBING-CAST BRONZE FITTINGS

A large capacity pump ideal for galley use, complete with bulkhead brackets and tail pieces for attaching hose or lead pipe. Brass ball checks in plunger and intake. Threaded for 34 inch pipe.



Nickel Plated Each Chromium Plated Each Polished Diam. Barrel Inches Length Overall Inches Bronze Each No. 9 11/2 \$5.50 \$6.50 \$ 9.00 21 31 10 7.00 8.00 10.50

Bulkhead Bracket

FOR BASIN PUMPS-CAST BRONZE

pumps show	n above on b	f the basin ulkhead. Re- ht fit on body	3
Pollshed	Nickel	Chromium	No. ATK
Bronze	Plated	Plated	
Each	Each	Each	
\$1.50	\$1.80	\$2.50	

rig.



"Challenge" Force Pumps

DOUBLE ACTION

Recommended as the best hand force pump for pump-ing into overhead tanks or forcing water to distant points, widely used aboard vessels as a deck pump.

points, widely used aboard vessels as a deck pump. The Steamboat Inspection Service specifications re-quire that a deck pump for fire service should have a capacity of 100 cubic inches per revolution, the No. 12 size is approved for this service. The No. 16½ pump meets Lloyds' specifications. All valves are brass on brass seats. Piston rod is brass cased operating through a brass packing gland

packing gland.

Cylinder is brass lined.

Suction lift is 25 feet, the suction pipe may extend horizontally a short distance.

WITH ONE LEVER

			Fig. 65	94			
		Diam. Cyl- inder	Lgth. Stroke	Pipe Size	*Lift and Force	Cap. Per Rev.	Approx. Wt.
No.	Each	In.	In.	In.	Feet	Gals,	Lbs.
2	\$26.75	21/2	41/2	11/2	150	.19	89
4	27.75	3	41/2	11/2	150	.28	90
8	29.50	4	41/2	2	100	.49	105
12	43.00	5	51/4	21/2	100	.89	190
16	51.50	6	51/4	21/2	100	1.28	229
161/2	53.25	6	51/4	3	100	1.28	229

WITH TWO LEVERS



			Fig. 69	95			
2		Diam. Cyl- inder	Lgth. Stroke	Pipe Size	•Lift and Force	Cap. Per Rev.	Approx. Wt.
No.	Each	In.	In.	In.	Feet	Gals.	Lbs.
8	\$35.50	4	41/2	2	125	.49	130
12	47.75	5	51/4	21/2	125	.89	215
16	56.00	6	51/4	21/2	125	1.28	260
161/2	57.75	6	51/4	3	125	1.28	260

* Lift and force figured from supply to point of delivery.

Diaphragm Suction Pumps

IRON

Unexcelled for rough and ready service such as r quired by bilge pumping on vessels, barges and dredg-

The diaphragm is the best quality rubber guarante to stand hard service. Diaphragm can be replaced removing only four nuts and lifting off top secti-these nuts are brass to prevent rusting fast to bolts

The suction valve is metal, rubber faced, eas removable.

The hand lever is wrought iron, reversible, enabling to be used vertically or horizontally from either side the back of the pump.

Hand lever is furnished unless power lever is sp ified.

WITH BOTTOM SUCTION



Fig. 696

2 \$2 3 2	1.50 6.00	Pipe Size Inches $2\frac{1}{2}$	Stroke Inches 3 3	Capacity Per Hour Gallons 1800 3500	Welg Poun 115 170 256
4 4	2.00	4	4	6000	250

WITH SIDE SUCTION



Fig. 697

No. 2 3

Each \$23.50 28.00 46.00	Suction Pipe Size Inches 21/2 3 4	Stroke Inches 3 3 4	Capacity Per Hour Gallons 1800 3500 6000	Wels Poun 127 178 266
RUBBER	R DIAPH	IRAGMS	5 ONLY	
No. 2			Each \$1.75	
3			2.00	
4			2.50	

Electric Sump Pump ALL BRONZE CONSTRUCTION

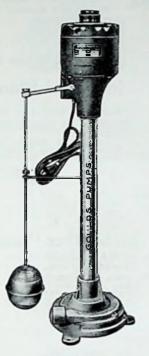


Fig. 698

A self contained vertical type centrifugal pump of all ronze construction. All the user has to do is connect re discharge to some waste point, plug in the electric ord and the unit will operate automatically.

The pump, vertical tubing, float, etc., are all bronze, ne pump shaft is stainless steel. No chance of rust or prrosion during idle periods.

The pump casing contains suction opening and disnarge nozzle, a large area strainer and supporting set.

The motor is designed specifically for use with this ump and is ¼ H.P. single phase A. C., 60-cycle, 110 olt, 1,750 R.P.M., with 8 feet rubber covered cord and lug.

The float is a large size made of copper with rod and tops for adjusting to various liquid levels in sump.

Rating-1,900 G.P.H. at 5 foot head. 1,500 G.P.H. at 10 foot head. 900 G.P.H. at 15 foot head.

Each	Height Overall Inches	Size Discharge Inches	Weight Pounds	Minimum Pit Diam. Inches
\$39.50	38	1	55	18

Pitcher Spout Pumps



Fig. 699

A moderate priced pump with open top. The inside of the cylinder is polished to lessen wear on plunger leathers. The lever can be adjusted to operate in the most convenient position.

Has a suction lift of 25 feet. The suction pipe may extend a short horizontal distance.

No. 2	Each \$2.20	Diam. Cylinder Inches 3	Suction Pipe Inches 11/4	Capacity Per Stroke Gallons .12	Approx. Weight Pounds 23
3	2.45	31/2	11/4	.17	26
4	4.00	4	11/2:	.22	30

Power Rotary Pumps

ALL IRON OR IRON BRONZE LINED

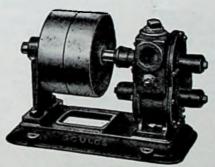
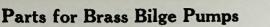


Fig. 700

Fitted with tight and loose pulleys which makes them especially adaptable for line shaft drive. Capacities given are at 100 R.P.M.—100 foot head, but pump will give satisfactory service at speeds up to 300 R.P.M.

Furnished in all iron, iron with bronze case and cams or all bronze.

No. 1 2 3	Pipe Size Inches i 1/2 1 1/2 2	Size Pulleys Inches 8x21/2 8x21/2 8x21/2	Gallons Per Min. 100 R.P.M. 10 121/2 14	Discharge Head Feet 100 100 100	Approx. Weight Pounds 66 73 78
No. 1 2 3	\$	All Iron Each 20.00 22.50 24.50	With Broi Case and C Each \$53.50 58.50 68.50	ams))	All Bronze Each \$59.00 63.50 73.50



Flange and cup washers are leather, especially treated for use in salt water. Split washer is wrought brass. Ball is hollow and made of wrought brass.

No. 1 fits numbers 1, 3, 5 and 7 bilge pumps. Page No. 2 fits numbers 2, 4, 6 and 8 bilge pumps.

	Flange Washer { No. 1 Fig. 203 { No. 2	Each \$.20 .25
	Cup Washer { No. 1 Fig. 204 { No. 2	\$.20 .25
0	Split Washer { No. 1 Fig. 205 { No. 2	\$.05 .07
0	Hollow Ball { No. 1 Fig. 206 { No. 2	\$.30 .40
	Valve Fitting For Plunger { No. 1 Fig. 456 { No. 2	\$.50 .60
	Packing Nut { No. 1 Fig. 457 { No. 2	\$.60 .80

Bottom Valves FOR BRASS BILGE PUMPS—CAST BRONZE





Fig. 549 For Fig. 200 Single Hose Pump

Fig. 550 For Fig. 202 Double Hose Pump

Furnished complete with hollow brass ball and strainer.

For Pump		For Pump		
Size No.	Each	Size No.	Each	
0	\$.90	5	\$1.30	
1	1.00	6	1.60	
2	1.30	7	1.30	
3	1.00	8	1.60	
4	1.30			

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

Weighted Clapper Valves FOR NAVY BILGE PUMPS AND BASIN PUMPS





Fig. 147

Fig. 148

Each

.80

Fig. 147—Valve for Navy Bilge Pumps Fig. 148—Valve for Basin Pumps



Pump Valve

Galvanized iron with oak leat clapper, galvanized iron weighte both sides of leather riveted gether and screwed to casting.

Fig. 237 Diameter, inches Wgt. per doz., lbs. Price per doz.

Improved Plunger

Malleable iron stem threaded to ciron wheel to support oak leather ciplunger.



m wheel (o support oak	leather -
inger.		
	Weight	
Diam.	Per Dozen	Price
Inches	Lbs.	Per Doz
11/2	21/2	\$3.0
2	3	3.5
21/2	4 1/2	4.0
2 /2	6	4.51

Fig. 238



Le	ather	Plun	gers
OAK	LEATH	ER	

		I TEATIER		
	Riveted	together, strong	and	durable
	For Diam. Pump Inches 2	Weight Per Dozeu Lbs. 2		Price Per Doz \$2.6f
1	21/2	2 1/2		3.3
1	3	3		4.0
	31/2	3 1/2		4.8
	4	4		5.6
89	4 1/2	4 1/2		8.0

Wood Pump Handles

Fig. 230

Turned from soft wood, smo finish, 9 inches long. Diam. of hole, in. ⁷/₈ 1 Price per doz. \$1.44 \$1

Wood Pump Rods

PERKO

Pointed on one end. Diam., inches $\frac{7}{2}$ 1 Lengths, ft. 2 to 6 6 to Price per ft. \$.08 \$.1

Fig. 231 NOTE—% inch only furnished in 6 inch multip! 1 % inch only furnished in 12 inch multiples.

Plunger for Navy Bilge Pumps

ALL BRASS

This style plunger assembly used all "Perko" navy type bilge pumps. cast bronze handle with "man size" gr The brass vertical rod is ½ inch dia eter. The plunger itself consists of bronze casting with ¼ inch self lut cated flax packing set in a groove. T packing is far superior to leather s with ordinary use will give fine rest for years, yet it is very easy to repls

For cylinder—2% inches inside dis eter. Each, complete



Ferkins Marine Lamp & Hardware Corp. 77

Flexible Couplings



Fig. 687

Die cast under tremendous pressure, a heavy leather sc, 5/16" thick with two inserts on each side furshed complete with set screws. 5/8 and larger have syway and set screws.

ío.	Price Each	Bore Inches	Length Inches	Outside Diameter Inches	Outside Diameter Hub Inches
					4
1	\$1.00	1/2 and 1/2	1 7/8	1 7/8	1
2	1.50	1/8 to 3/4	1 7/8	21/8	11/2

No extra charge for combination of size bores. Be sure to specify size bore, both ends, when orwing.

V Type Pulleys

DIE CAST WHITE BRASS



		Lig.	000	
.	Price Each	Outside Diameter Inches	Bores Inches	Running Diameter Inches
	\$1.00	3	3/8 to 3/4	2 10
	1.50	4	1/2 to 3/4	31/2
1	2.00	5	1/2 to 3/4	4 3/4

Be sure to specify size bore when ordering.

٩٥ 1

23

Brass Grease Cups FOR PERKO GEAR PUMPS



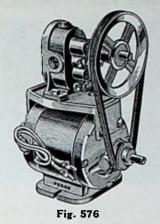
Fig. 961

Drawn from heavy gauge sheet brass. This cup is light weight yet practically indestructible.

No. 1 2 3	Each \$.30 .35 .45	Height Inches I Ts I 3/8 2 Tr	Inside Diam. Inches 1/2 3/4 11/4	Pipe Thread Inches 1/8 1/8	Capacit: Ouncea
3	.45	2 3	11/4	1/8	*3

Motor Driven Gear Pump

WITH 12 OR 32 VOLT MOTOR % INCH PUMP-1/6 H.P. MOTOR



Designed primarily for bilge pumping, fire fighting, washing down decks and top sides, for all general purposes.

Pump—All bronze gear type with ¾ inch pipe connection.

Motor—A specially built drip-proof type treated to withstand dampness. Its normal current draw is about 7 amperes for 32 volt type and 18 amperes for 12 volt type.

Capacity—Motor drives pump at 580 R.P.M. through a V belt. Pumps about 350 gallons per hour at 0 lbs. pressure. Reasonable pressures can be obtained for intermittant service.

No.	Each	Voltage of Motor	Size of Base Inches	Height Overall Inches
1	\$80.00	12	53/4x43/1	14
2	75.00	32	53/4x43/4	14

Rubber Hose and Couplings

FOR NAVY BILGE PUMPS



Fig. 812

An extra heavy rubber hose in sizes necessary to fit our navy type bilge pumps and strainers. Couplings are cast bronze.

Inside Outside		Couplings Only		
Diam. Inches	Diam. Inches	Per Foot \$.28	Pipe Size	Each \$.54
11/4	1 2/8	.40	11/4	.90
11/2	21/8	.48	11/2	1.20

Hose Clamps GALVANIZED—HEAVY



For Inside Diameter Hose Inches I 1 1/4 1 1/2

Per	
Dosen	
\$1.00	
2.00	
2.25	
4,20	



Corner Lavatory WHITE VITREOUS CHINA

With chromium plated low spout pump, Fig. 479



Fig. 830

With integral back and round basin with overflow, fitted with chromium plated waste plug, chainstay, chain and stopper. Size of outlet 1¼ inches outside diameter. Inlet to pump ½ inch inside diameter.

No. 1	Complete with Pump Each \$29,50	Complete Except Pump Each \$19.00	Size of Sides Inches 2x 2	Diam. of Basin Inches	Height Back Inches 214	
	\$43.30	\$13.00	12812	10	472	
2	34.50	24.00	14x14	11	$\frac{21/2}{21/2}$	

Furnished with chromium plated compression faucet if desired, add \$3.50 to price of lavatory without pump.

Flat Back Lavatory

With Chromium Plated low spout compression faucet



Fig. 831



Ideal where space is limited. A one piece back wfolding basin. Smooth white vitreous enameled all ov The quick acting pump and all other metal parts z brass, chromium plated. Basin is held in closed positi by a spring catch. Inlet and outlet fittings are thread for ¾ inch pipe.

Complete assembly weighs 42 pounds.

n. Dept n Bask S Inche 4½

Flat Back Lavatory

WHITE VITREOUS CHINA

With Chromium Plated high spout pump, Fig. 473



Fig. 832

With integral back and round basin. Complete w chromium plated waste plug, chainstay, chain, & stopper. Size of outlet 1¼ inch outside diameter, in to pump ½ inch inside diameter.

to. 3	Complete with Faucet Each \$19.50	Complete Except Faucet Each \$16.00	Size Inches 12x12	Diam, of Basin Inches 10	Height Back Inches 21/2	No. 4	Complete with Pump Each \$28.00	Complete Except Pump Each \$18.50	Size Inches I 4x I 4	Diam. of Basin Inches I l	Heig Back Inche 21/1
-	410.00		12212	10	21/2	4	\$28.00	\$18.50	14x14	11	27

For detailed information on various types of basin and galley pumps see page 72-73.

Cast Iron Lavatory

PORCELAIN ENAMELED-WHITE THE "BYRD"

ith Chromium Plated gooseneck spout pump, Fig. 1040



Fig. 335

White enameled iron lavatory without overflow.

Furnished complete with waste plug, chain stay, nain and rubber stopper, also screws and washers for counting.

Complete Except Pump Each	Complete with Pump Each	Size Inches	Diam, of Basin Inches	Height Back Inches
\$9.00	\$17.50	12x12	101/2	2

Pressed Steel Lavatory PORCELAIN ENAMELED-WHITE WITH BRACKETS FOR MOUNTING

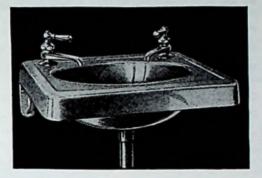


Fig. 336

Pressed in one piece out of 18 gauge ingot iron, finished in 3 coats of porcelain enamel, an exclusive process. The underside is also enameled so that its attractiveness is not lessened when fully exposed.

Each \$7.00	Outside Measurements Inches 14x161/2	Oval Size Basin Inches 91/2x123/4	Inside Depth Inches 43/4	Weight Pounds
\$7.00	14x161/2	91/2x12/4	4 3/4	11

Price includes brackets, Tailpiece and Plug.

Price does not include Faucets-can be used with Pumps shown on pages -----.

Galley Sinks

CAST IRON-PORCELAIN ENAMELED INSIDE



Fig. 833

With flat rim and 1 inch flange, complete with chronium plated brass plug type strainer and rubber topper. Connections for 1½ inch lead pipe, 2 inch outet in sink.

No.	Width Overall Inches	Length Overall Inches	Depth Inside Inches	Price Each
1	12	12	6	\$ 6.00
2	12	18	6	7.00
3	14	20	6	8.00
4	16	24	6	10.30

Galley Sink

PRESSED STEEL—PORCELAIN ENAMELED WHITE



With flat rim and chromium plated combination sink drain and stopper in one unit, 1¼ inch tail piece.

•		Size Inside	Size Outside	Depth	Wt.
No.	Each	Inches	Inches	Inches	Lbs.
1	\$4.75	10 x12	111/2×131/2	43/1	3
2	4.80	101/2×16	123/4x18	43/4	4
3	5.75	11/2x171/4	14 x20	41/2	5
4	7.25	14 x211/2	161/4x24	41/2	7

No. 2 size can be furnished in old ivory color at no extra charge.

80 Perkins Marine Lamp & Hardware Corp.

"PERKO" MARINE CLOSETS

PERKO

FOR ABOVE OR BELOW WATERLINE WHITE VITREOUS CHINA BOWLS—ALL BRONZE PUMPS AND FITTINGS BIRCH SEATS AND COVERS—MAHOGANY OR WHITE FINISH

BOWL is of rim flushing type and of latest design to eliminate loose pipe connections where supply pipe connected to it.

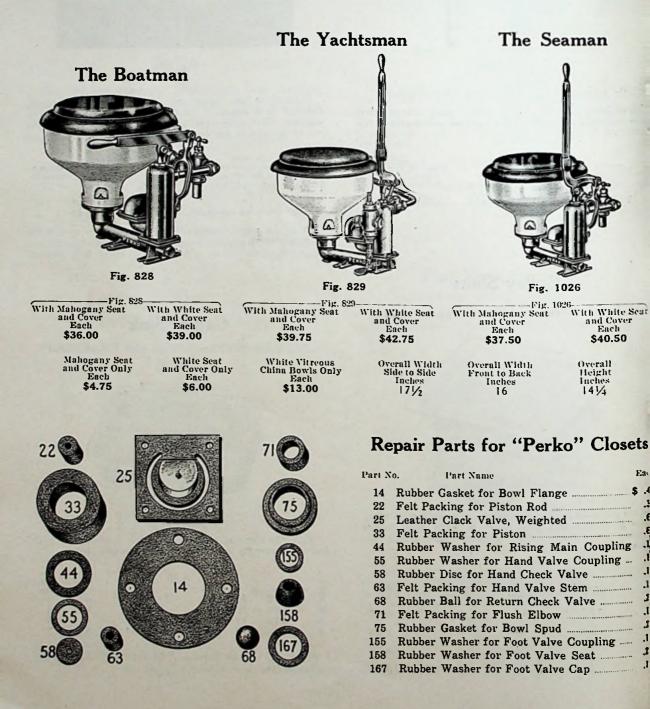
PUMP for supply and discharge is 2½ inch with felt packed piston. Length of stroke 3½ inches.

VALVES, waste valve contains leather clack washers. A combination supply and check valve.

WASTE ARM has ¾ inch pipe size clean out opening ample to allow cleaning out of foreign matter or quidraining when hauling out.

OUTLET is full size 11/2 inch opening with 2 inch pipe size coupling nut.

INLET is full size ¾ inch opening with 1 inch pipe size coupling nut.



No. 1 2

C

Outlet Connections CAST BRONZE

Used as outlet fittings for engines, pumps, lavatories, ater closets, etc. Threaded to fit standard pipe. Comte with large flange lock nut.

TAMA BULLET	Size Pipe Inches	Price Each	Length under Flange Inches	Weight Each	
	1/4	\$.65	1%	1 oz.	
C PARTY II	3/8	.75	2 3/8	3 oz.	
	1/2 3/1	.90	2 %	4 oz.	
	3/1	1.00	21/2	8	
	1	1.25	21/2	12	
ALL PRINTERS	11/4	1.75	3	1½ lbs.	
	11/2	2.50	3%	21/4	
	2	3.00	31/2	21/2	
Fig. 322	21/2	5.00	31/2	31/4	

Inlet Connections CAST BRONZE

A good, dependable connection, easy to install. Fits sh with outside of hull. Complete with large flange k nut and hose coupling.

neso	Size Pipe Inches	Without Strainer Each		For Plank- ing Inches	Weight
	1/4	\$1.15	\$1.40	7/8	2 oz.
	3/8	1.25	1.50	1 1 1%	4 oz.
	1/2	1.40	1.70	1 %	7 oz.
1	3/1	1.65	2.00	1 1 1/8	10
2 16 .	1	2.00	2.45	1 3/4	1 lb.
3-05-000	11/4	2.75	3.25	1 3/4	2
1 1 1	11/2	3.75	4.35	21/4	2%
	2	5.00	5.65	21/2	3 3/4

Fig. 64

Fig. 332

Fig. 65

Water Outlet CAST BRONZE

For use on boats with water outlet on side of hull. Large flange protects hull from stain. Hood prevents spray entering boat. Stand-ard pipe thread will fit standard lead pipe connections.

No. 1 2	Size Pipe Inches 34 1	Diam. Flange Inches 23/4 3		fpe ies 4	Weight 12 oz. 1 lb.
No. 1 2	Polishe Bronze Each \$2.00 2.50	Pl E \$	ckel ated ach 2.50 3.00	ľ	romium Plated Each 52.75 3.25

Speedboat Strainers CAST BRONZE

ONE PIECE

Designed	to prev	vent clo	ogging.
Will admit	full sup	oply of	water
at all spee	ds.		
Entire	straine	r incl	uding

threaded neck is one solid casting.

lipe ches 1/2	Price Each \$1.25 1.50	Length Pipe Inches 24 27	Size Strainer Inches 21/2 x 3 1/2 3 x 4	Welght Each 11 oz. 14 oz.	
1/4 1/2	2.00 2.50 3.00	3 3 3 %	3 x4 3 % x4 ½ 4 ¼ x6 ¼	1¼ lbs. 1% lbs. 2½ lbs.	

Scoop Strainers CAST BRONZE



Can be used with inlet connec-tion, Fig. 64. No. 1 will fit up to ½ inch. No. 2 will fit up to 1 inch. No. 3 will fit up to 1¼ inches.

Fig. 66

Dimensions	Weight Each
$3\frac{1}{2}\times2\frac{1}{2}$	4 oz.
5 x 3 1/4	7 oz.
61/4 x 4 1/4	1 Њ.
	$ \begin{array}{r} \text{Inches} \\ 3\frac{1}{2}\times2\frac{1}{2} \\ 5\times3\frac{1}{4} \end{array} $

Round Strainers

PLAIN CAST BRONZE

I DAIN V	TOT D	101.01		
	Diam. Inches 214	Price Each S.30	Depth Inches	Weight Each 2 oz.
CHURCHER	3	.35	5%	4 oz.
Cool Cool	31/2	.45	3/4	5 oz.
a contraction of the	4	.50	3/4	6 oz.
	5	.75	1	12 oz.
Fig. 86	6	1.00	11/4	1 lb.
-	8	2.00	1%	2 lbs.
	10	4 00	1 96	3 lbs

Bronze Sea Cocks WITH DRAIN PLUGS



Fig. 835

Size Inches 3/4

1

11/2

Size Inches 3/4 11/2

Fig. 835 Each

\$ 5.35

6.35

12.20

17.70



Fig. 834 Without Hull Connection Deduct Each With Strainer Add Each Fig. 834 Each \$ 5.70 \$.85 1.10 \$.35 .45 7.00 2.20 12.95 .60 18.45 .65 2.70

Angle Sea Cocks CAST BRONZE WITHOUT THROUGH HULL CONNECTIONS

Without

Strainer Each \$3.60

6.60



Fig. 836 Weight Each Pounds 4

Heavy cast bronze handle.

Tail piece for lead pipe or hose connection inch for inlet, 11/2 inch for outlet.

With
Strainer
Each
\$3.95
7.20



Round Portlights

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



Fig. 317

Round Frames for Portlight Glas

CAST BRONZE



Fig. 71

Diam. Opening	Galv.	Plain Bronze	Pol. Bronze	Diam. Glass in Clear	Thickness of Glass		iside Jam.	Outside Diam.	Plain Bronze Each	Pollshed Bronze Each	Nickel Plated Each	Chro Pla E
Inches	Each	Each	Each	Inches	Inches		31/8	53/4	\$.55	\$1.00	\$1.40	\$2
3	\$2.75	\$3.00	\$5.00	3	1/4		4 3%	61/4	.60	1.10	1.50	1
4	3.00	3.25	6.00	4	1/4		4 3/8 4 7/8 5 1/4 5 3/4	63/4	.65	1.25	1.75	2
5	3.75	4.50	7.25	5	3/8		sí/	71/4	.70	1.50	2.10	2
6	4.50	5.25	8.00	6	3/8	1	53/.	8	1.00	1.85	2.45	
7	6.25	7.00	10.00	7	1/2		61/4	81/2	1.30	2.25	2.85	
8	7.75	8.50	12.50	8	1/3		71/4	93/4	1.65	2.75	3.45	
9	10.25	11.50	16.50	8	1/2		a 1 /	111/4	2.00	3.25	4.00	
10	12.50	14.00	20.00	8 3/8	1/2		81/4		2.00	3.75	4.75	
12	19.00	21.00	30.00	101/4	íź		91/4	121/4			6.00	-
All siz		cessed for		1.4	12	1 1	01/4	131/4	3.00	5.00	0.00	

All sizes are recessed for screens. For screens see Fig. 434. 9 and 10 inch have Two Fastenings 12 inch have Three Fastenings

MORE-AIR PORTLIGHTS

INSIDE PATTERN-FOR WOOD HULLS CAST BRONZE-PLAIN AND POLISHED COMPLETE WITH OUTSIDE FINISHING RING GLASS AREA IS SAME DIAMETER AS OPENING

ALL SIZES ARE RECESSED FOR SCREENS FOR SCREENS SEE FIG. 434

Fig. 157

Showing Screen in Place



				For Thickne	ss of Wood-			
Opening Inches	Plain Each	Folisbed Each	Plain Each	nch Pollshed Each		Pollshed Each	Plain Each	Polished Each
4	\$4.50	\$6.00	\$5.25	\$6.75	\$6.00	\$7.50	\$6.75	\$8.25
5	5.25	7.25	6.00	8.00	6.75	8.75	7.50	9.50
6	6.50	8.75	7.25	9.50	8.25	10.50	9.50	11.75
7	8.25	11.00	9.50	12.25	10.75	13.50	12.00	14.75
8	10.75	13.75	12.00	15.00	13.75	16.75	15.75	18.75
9	14.00	17.75	15.50	19.25	17.75	21.50	20.00	23.75
10	17.50	23.00	20.25	25.75	23.50	29.00	27.00	32.50
12	23.50	33.00	26.75	36.25	31.00	40.50	35.75	45.25
For 1	inch wood,	use 1½ inch p	rice. For 2					Las Per
Witho	ut outside f	inishing ring,	deduct from	above prices	the following	g:		1
Plain	4 Inch \$.45	5 Inch \$.55	6 Inch \$.65	7 Inch \$.80	8 Inch \$1.00	9 Inch \$1.50	J0 IEch \$2.06	12 Incb \$2.50
Polished	.60	.75	.85	1.10	1.35	2.00	2.75	3.25

Above items desired CHROMIUM PLATED, add 50% to Polished Bronze Prices

Perkins Marine Lamp & Hardware Corp. 83

Oval Portlights INSIDE PATTERN-WITH DEEP COLLAR CAST BRONZE



Fig. 907

OMPLETE WITH OUTSIDE FINISHING RING

	PLAIN BRONZE	
Size	For Thickne	
Opening	1½ Inch	2 Inch
Inches	Each	Each
4 x 7	\$10.00	\$11.00
5 x 9	12.50	14.00
6¾x12	18.00	21.00
	POLISHED BRONZE	3
Size	For Thickne	ss of Wood-
Opening	1½ Inch	2 Inch

Opening	155 Inch	2 Inch
Inches	Each	Each
4 x 7	\$13.00	\$14.00
5 x 9	16.00	17.50
6 ³ / ₄ x12	23.00	26.00

WITHOUT OUTSIDE FINISHING RING DEDUCT

	FROM ABOVE	
Size	Plain	Polished
4 x 7	\$.50	\$.75
5 x 9	.75	1.25
63/4x12	1.00	1.50

Galvanized Inside Portlights

CAST IRON-WITH FINISHING RING

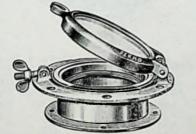


Fig. 265

	F	or Thickness of Wo	od
ning	1% Inch	2 Inch	2½ Inch
ches	Each	Each	Each
5	\$4.50	\$4.65	\$4.80
- 6	5.50	5.75	5.90
7	7.25	7.55	7.75
8	9.25	9.65	9.90

VITHOUT OUTSIDE FINISHING RING DEDUCT **FROM ABOVE**

5 Inch Size	6 Inch Size	7 Inch Size	8 Inch Size
Each	Each	Each	Each
\$.50	\$.50	\$.75	\$.75

Lightweight Portlights CAST BRONZE GLASS AREA IS SAME DIAMETER AS OPENING



These are made primarily for small cabin cruisers and cabin sailboats where space and weight are important factors.

Diam. Opening Inches	Plain Bronze Each	Each	Chrom. Plated Each	Outside Diam. Inches	Thickness of Glass Inches	Weight Pounds
4	\$2.50	\$4.00	\$ 6.00	7	1/4	31/4
5	3.05	4.80	7.20	8	1/4	31/2
6	4.15	6.10	9.15	91/4	1/4	4
7	5.40	7.75	11.60	103/8	1/4	5
8	6.60	9.00	13.00	111/4	1/4	7
			-			

All sizes are recessed for screens. For screens see Fig. 434.

Marine Cabin Windows CAST BRONZE WATERTIGHT

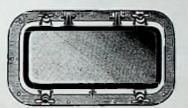


Fig. 796

These cabin windows are made with 4 toggle fasten-ings, which when tightened make them absolutely water tight. They are fitted with push-in type screens which can be left in position when window is closed.

an be left in position v	vnen window i	s closeu.	
Size Glass	Plain	Polished	
in Clear	Bronze	Bronze	
Inches	Each	Each	
5x12	\$16.00	\$22.00	
7x14	20.00	27.00	
8x21	37.50	49.50	
10x21	48.00	61.00	
Extra fe	or Finishing R	ling	
5x12	\$1.50	\$ 2.25	
7x14	1.75	2.50	
8x21	6.50	9.50	
10x21	8.00	12.00	
I	Dimensions		
Dim. of Opening			
InchesWidth	Outside	Dim. Len	
		Outoido o	

Inc	hes	Outside	Dim.	Length
With	With- Width	Dim. of	Outside	of
Screen	out Flange	Flange	of Spigot	Spigot
in Place	Screen Inches	Inches	Inches	Inches
5x12	6x13 11/4	8¾x15¾	61/4x131/4	2
7x14	8x15 11/4	103/4x173/4	81/4x151/4	2
8x21	9x22 13/8	111/2×241/4	85/8x211/2	21/4
10x21	11x23 13/8	131/2x241/4	10 ⁵ / ₈ x21 ¹ / ₂	21/4

Thickness of Glass ¼ inch.

Above can be supplied with longer spigot. Prices on application.

8 x 21 and 10 x 21 sizes have 2 toggle fastenings.

Unless otherwise specified, we always send above windows in Plain Brass finish, without finishing rings.

Above items desired CHROMIUM PLATED, add 50% to Polished Bronze Prices

PERKOE
TIM

Air	Scool	os for	· Port	lights	
GALV	ANIZEI	OR PO	LISHEL) BRASS	
WI	TH OR	WITHOU	UT SCR	EENS	
	Open- ing of	Galvar	nized	-Pollshed	
633	Port- light	Without	With Screen	Without Screen	With Screen
504	Inches	Bach	Each	Each	Each
1000	3	\$1.50	\$2.50	\$2.50	\$3.50
1. S. C.	4	1.80	2.80	2.90	3.90
	5	2.10	3.10	3.30	4.30
1 2	6	2.40	3.65	3.70	4.95
a state a	7	2,70	3.95	4.10	5.35
	8	3.00	4.25	4.50	5.75
	9	3.30	4.55	4.90	6.15
	10	3.60	4.85	5.30	6.55
Fig. 153	ii ii	3.90	5.40	5.75	7.25
115. 100	12	4.30	5.80	6.25	7.75

Screens are soldered into scoops.

Oval Portlight Screens BRASS FRAME—COPPER MESH

Opening of Portlight Inches 4 x 7 5 x 9 63/4x12	Price Each \$1.25 1.50 2.50
0,44.18	2.00

Fig. 909

Shallow Portlight Screens

SPUN BRASS FRAME—COPPER MESH FOR RECESSED PORTLIGHTS, FIG. 157, 317, 795

	Size Port Light Inches 4 5	Price Each \$1.00 1.10	Size Port Light Inches 10 12	Price Each \$2.10 2.35
ð G	6	1.30	14	2.50
	7	1.50	16	3.00
	8	1.70	18	3.50
	9	1.90	20	3.75
Fig. 434		ct size o o above si		Add 🛧

Beaded Portlight Screens

SPUN BRASS FRAME—COPPER MESH

Frame tapered for variation in size of opening in portlight, wire enclosed bead around edge.

8	Size Port Light Inches	Price Each	Size Port Light Inches	Price Each
Cast Spaller	3	\$1.25	10	\$3.75
	4	1.50	11	4.00
	5	1.75	12	4.25
FIL	6	2.00	14	5.50
Contraction of the second	7	2.25	16	6.50
Fig. 154	8	2.60	18	7.50
	9	3.25	20	8 50

NOTE—Can be furnished with galvanized frame in all sizes. Price on application.

NOTE-Above Scoops and Screens are made to order and return of same will not be accepted.

Please give exact diameter of opening in port light.

Above items desired CHROMIUM PLATED, add 40% to Polished Brass Prices

Wing Nuts for Portlights

CAST BRASS



For Diam. Bolt Inches 1/4 5 1 6 1/4 7 8 7 8 7	Plain Brass Each \$.10 .10 .10 .20	Polished Brass Each \$.20 .20 .20 35	For Diam. Bolt Inches 1/2 9 10 5/8	Plain Brass Each \$.25 .30 .30	Polis Brz Eac \$
18	.20	.35			

Rubber for Portlights



Fig. 461

	Size		Per
1/4	inch	square	
10	inch	square	
3/8	inch	square	······································

Deck Lights

CAST BRONZE-FOR WOOD DECKS



Fig. 838

Size of Clear Glass Inches 3 % 4 1/8	Plain Each \$2.75 3.00	Pol. Each \$3.75 4.00 5.00	Thickness of Glass Inches ¾ ¾ 14	Diam. of Frame Inches 5¼ 6¼ 7¼
5	3.75	5.00	1/2	
Ğ	4.50	5.75	1/2	8
7	6.50	8.00	3/4	10
ŝ	8.25	10.25	3/4	11

Portlight Glasses

We can furnish all sizes and thicknesses of Portlight Glasses to order

PRICE ON APPLICATION

s

"Perko" Alcohol Burner

CAST BRONZE-NICKEL FINISH



The burner that is used in Perko Alcohol Stoves, ich have proven very successful and are used on idreds of boats throughout the country.

'his burner furnishes intense cooking heat and is ctically noiseless in operation, safe and dependable. good grade of denatured alcohol should always be d.

'he slotted burner is more desirable than other types the flame covers a larger area.

nplete with wire brush filter and fittings for	
installing	\$6.00
re brush filters only, each	.80
dle Valves with handle only	1.30

Fuel Tank for Alcohol Stoves

COPPER-1 GALLON CAPACITY



Fig. 980

Iade of heavy weight sheet copper, highly polished. sings include shutoff valve, 5 feet of copper tubing tubing connections.

Complete ith Fittings Each \$5.00	Tank Only No Fittings Each \$4.00	Diameter Inches 51/2	Length Inches 111/4



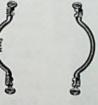


Fig. 507

pair of these around the pot or pan on the stove will yent a very annoying and sometimes disastrous det-ent to full boating enjoyment. Adjustable to fit tever size utensil the stove will hold.

pair

Liverpool Heads

Of heavy gauge metal, all parts riveted, top and bot-tom double seamed. Fits over standard stove pipe.

	Size	Galv.	Brass
- COPPERING	Inches	Each	Each
to Data I a	3	\$ 5.50	\$ 7.00
THE BRIDE IN	31/2	5.75	7.25
	4	6.00	7.50
10	41/2	6.60	8.60
	5	7.20	9.30
	51/2	8.60	10.20
Contraction of the second	6	8.90	12.00
	7	10.00	15.00
1 新服業 1	8	15.00	18.00
(1) 1	10	18.00	25.00
Fig. 347			

Water Deck Irons

GALVANIZED CAST IRON



Fig. 430

Size of Stove Pipe	Price	Outside Diam. of Neck	Diam. Flange	Weight
Inches	Each	Inches	Inches	Pounda
21/2	\$1.50	23/4	63/4	17/8
3	1.75	3 15	71/2	31/2
31/2	2.00	3 🕌	8 3/8	4
4	2.25	4 3/8	91/4	53/8
41/2	2.50	4 🗄	10	61/2
5	2.75	53/8	101/2	7
51/2	3.50	5 18	11	9
6	4.00	6 15	111/4	95/8
7	5.00	73/8	13	11
8	7.00	8 7	145/8	161/4

Tail Pieces

CAST BRONZE-FOR SEACOCKS

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





Fig. 67		Fig. 78		
Straight Tail Piece		90 Degree Tail Piec		
Size Inches 3/4	Price Each Fig. 07 \$.65 .75	Price Each Fig. 78 \$1.00 1.40	Weight Each 5 oz. 6 oz.	
11/4	1.25	1.75	8 oz.	
11/2	1.25	2.00	1 lb.	
2	2.00	2.75	11/2 lbs.	

\$2.50



"Perko" Alcohol Stoves

GRAVITY TYPE-IMPROVED

FURNISHED COMPLETE WITH 1 GALLON COP-PER TANK, 5 FEET COPPER TUBING AND ALL FITTINGS FOR IMMEDIATE INSTALLATION AND USE.

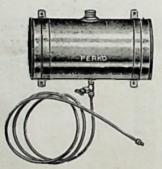
AL30 FURNISHED, IF DESIRED, WITH CAST BRONZE POT HOLDERS AS ILLUSTRATED (PAT. PENDING), ADJUSTABLE FOR ANY SIZE POT.

Constructed of heavy gauge sheet steel, double seamed and riveted at all joints, heavy wire bead around all edges.

This stove uses high grade denatured alcohol which is a safe, dependable fuel and can be obtained anywhere at small cost.

The improved burners give a clear blue flame not disturbed by vibration or rough seas, and will burn for about 10 hours on one gallon of alcohol. A sliding tray is furnished which is firmly held in place, yet easily removed.

Standard finish is a baked neutral gray enamel, alcohol resisting, which will harmonize with the finish of most galleys.



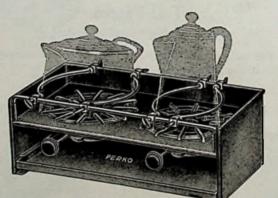


Fig. 714

treme Wt. Complete idth With Tank ches Pounds 21/4 24

Complete with fuel tank, tubing and fittings \$18.00 Stove only, without tank, tubing or fittings 16.00 Pot Holders---per pair--for one Burner 2.50 • Width shown is extreme of body, not including valve handle.

"Perko" Gravity Alcohol Stov

THREE BURNER



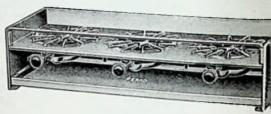


Fig. 990

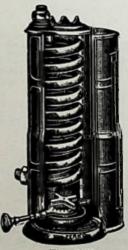
Extreme Length Inches 31	Bxtreme Height Inches 7	Extreme Width Inches 121/4	Capa of Ta Gall-
-----------------------------------	----------------------------------	-------------------------------------	------------------------

Complete with copper fuel tank, tubing and fittings \$ Stove only, without tank, tubing or fittings

Width shown is extreme of body not including handle.

"Perko" Alcohol Water Heate

PRESSED STEEL JACKET GRAY VITREOUS ENAMEL FINISH



Heavily constructe marine use. A pr steel jacket fitted substantial double co coils and baffle which distributes the directly on the coils.

Equipped with Per-

Suitable for use wi gallon tank.

Overall Height Inches 25	Dlam. Inches 8	Pir në i

Fig. 557

Price Complete with Copper Alcohol Tank and Fittings Perkins Marine Lamp & Hardware Corp. 87

"PERKO" IMPROVED PRESSURE ALCOHOL STOVES

ONE, TWO AND THREE BURNER TYPES, WITH PRESSURE GAUGE

Our new 1938 pressure stoves have been vastly improved and we now firmly believe them to be the finest and st dependable alcohol stoves obtainable today.

FUEL TANKS are of heavier gauge lead coated sheet steel with two interior baffle and reinforcing plates, bulge of.

AIR PRESSURE GAUGE is installed in the tank. It is very accurate, easy to read and shows the maximum rating pressure to use for best results.

FILLER PLUG, improved, guaranteed non leakable.

NEEDLE VALVES, improved for finer flame adjustment. Bakelite ferrules on valve stem to prevent burnt gers.

CONNECTIONS from tank to burners are of the flared type, non leakable.

BURNERS are cast bronze, carefully made. Grates are cast iron hot galvanized.

FINISH, a new improved finish of neutral gray alcohol resisting enamel.

FUEL CONSUMPTION, one gallon of alcohol with one pound of air pressure operates two burners at the same ne for twelve hours continuous burning.

FUEL, a good grade of "burning alcohol" should always be used, easily obtainable.

TRAY is removable and has sheet asbestos ¼ inch thick attached to bottom plus considerable air space to otect fuel tank from heat.

HEAT, with ordinary operating flame, a quart of water is brought to boiling point in three minutes.

VENTILATION holes in back and sides of body to assist in keeping fuel tank cool.

One Burner

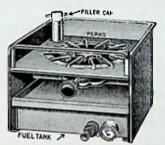


Fig. 1013

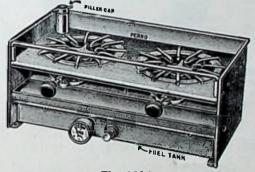


Extreme Length

Inches

113/4

•Extreme Extreme Width Height Inches Inches 121/4 81/2



Two Burner

	Extreme	Fig. 1014 •Extreme	Extreme	Capacity
Each	Length	Width	Height	of Tank
omplete	Inches	Inches	Inches	Gallons
\$25.00	20	121/4	81/2	11/2

Three Burner

Co

Capacity of Tank Gallons

3/4

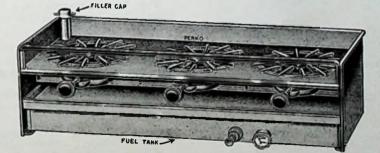


Fig. 1015

Each Complete	Extreme Length Inches	*Extreme Width Inches	Extreme Height Inches	Capacity of Tank Gallons	
634 00	31	121/4	81/2	2	

* Width shown is extreme of body, not including valve handle. Operating and cleaning instructions furnished with each stove.

THE ABOVE STOVES HAVE BEEN THOROUGHLY INSPECTED AND PASSED FOR INSURANCE PURPOSES THE "BUREAU FOR THE PREVENTION OF EXPLOSION AND FIRE ON MOTOR BOATS" REPRESENTING GHT OF THE LARGEST MARINE INSURANCE ORGANIZATIONS.



OVENS

FOR PERKO ALCOHOL STOVES

Bakes and roasts over any kind of cooking burner (alcohol, gas, gasoline, or oil), consuming but onequarter the fuel required to heat ordinary range oven. Bakes biscuits, pies, muffins, cakes, custards, puddings, beans, macaroni and cheese, potatocs, etc., thoroughly and well, roasts meats to a turn.

The Gem

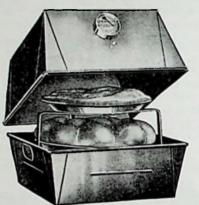


Fig. 1104

Gem Oven is built of high-grade material and consists of asbestos lined Hood with Heat Indicator, Base with Octagon Shelf insulated with asbestos. Wire Stand and Tripod.

Each \$3.50	Height Inches 10	Size Bottom Inches 91/2x91/2	Size Middle Inches 12x12	Weight Pounds 8
----------------	------------------------	---------------------------------------	-----------------------------------	-----------------------

The Stanley

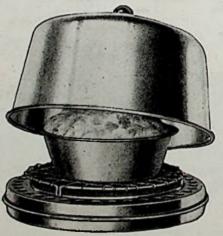


Fig. 1103

Stanley Oven consists of aluminumized steel base with heat deflector lined with heavy asbestos, tinned wire stand and polished aluminum hood.

Each \$2.50	Height Inches 61/4	Diameter Inches 105/8	Weight Pounds 6

Operating Directions Furnished with Each Oven

Hot Air Cabin Heater

CAST IRON PLATE—CAST ALUMINUM BC 6-12-32 AND 110 VOLTS



Fig. 595

Now you can use your galley stove to heat your

Works equally well on gas, alcohol, kerosenc, coa any other type of stove.

The TRADE WIND Hot Air Heater takes the from the stove and distributes it to all corners of cabin. This blast of hot air will heat the average c in a few minutes and maintain a comfortable temp ture as long as required.

Just place the heater on the stove over the bur connect electric fan wires to battery, light the s and in a few minutes the cabin will be as comfort as you want it.

Temperature of air can be regulated by height flame on stove.

This heater consists of a heating chamber, si electric fan, switch for fan and handle for carry

HEATS INSTANTLY-ECONOMICAL TO OPERA

Ampere draw from battery is very slight.

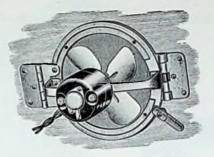
Volts	Each	Amperes	Diameter Inches	Height Inches	Weig? Pound
6	\$16.00	1.5	81/2	7	9½
12	16.00	.75	81⁄2	71/4	9345
32	16.00	.28	81/2	73/4	10]4
110	17.75	(~:08	81/2	8	11

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

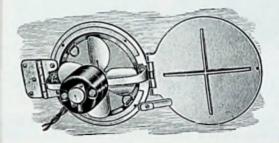
Perkins Marine Lamp & Hardware Corp. 89

Fan Type Ventilator

CAST ALUMINUM FRAME AND SHUTTER 6-12-32 AND 110 VOLTS WATERTIGHT WHEN SHUTTER IS CLOSED



Inside View with Shutter Closed



Inside View with Shutter Open and Screen in Place Fig. 1100

For ventilation of galleys, kitchens, toilet rooms, etc.

Fan is four blade type driven by inclosed motor unted on cast aluminum frame. Fan frame and atter are hinged for access to screen or closing of atter. Both are locked in place by lever as illustrated.

An all bronze insect screen furnished if desired.

A finishing ring for outside of opening furnished if sired.

When installing cut a hole exactly 6¼ inches in meter. Shutter should be mounted first, and fan me then mounted so that it fits over the shutter en both are closed.

Dapacity of fan is approximately 385 cubic feet per nute.

olts -12-32	Without Shutter Each \$10.00	With Shutter Each \$13.50	Aluminum Finishing Ring Each \$1.50	Bronze Insect Screen Each \$1.50
----------------	--	------------------------------------	--	--

L10 volt A. C. or D. C., add \$3.00 each.

Price of ventilator shown does not include finishing g or screen.

Specify Voltage When Ordering.

Safety Electric Fans

STREAMLINED FLEXIBLE RUBBER BLADES

6-12-32 VOLTS



Fig. 244

Invaluable for circulating air in small cabins, etc., where space is limited. The flexible rubber blades eliminate possibility of accidents but furnish maximum air delivery.

Furnished with bracket and integral turn switch, attractively finished in light gun metal enamel.

6 Volt Each \$3.95	12 Volt Each \$5.95	32 Volt Ench \$7.45	Diam. Fan Inches 6	Depth Overall Inches 41/4	Weight Pounds l
--------------------------	----------------------------------	---------------------------	-----------------------------	------------------------------------	-----------------------

Specify voltage when ordering.

Electric Fans

MARINE TYPE-6-12-32-110 VOLTS

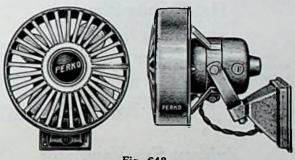


Fig. 648

An ideal fan for small cabins. The motor is of sturdy semi-enclosed construction with bronze bearings. The fan is adjustable to any suitable angle, and has a cast aluminum safety guard around the blades.

The air delivery is approximately 300 cubic feet per minute at a velocity of 400 feet per minute.

The power consumption is approximately 25 watts.

Standard finish is gray lacquer.

Each \$13.00	Пelght Overall Inches 8	Diam. Guard Inches 7	Diam. Blades Inches 6	Size Base Inches 2 ³ / ₄ x2 ³ / ₄	Weight Pounds 6
-----------------	----------------------------------	-------------------------------	--------------------------------	--	-----------------------



"Perko" Marine Exhaust Fans

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

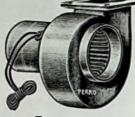


Fig. 778

For removing dangerous gasoline fumes from the bilge and engine room, exhausting excess heat and cooking odors from the galley. Getting rid of foul air or odors from cargo holds and bilges.

An absolute necessity to the motor boat because their use decreases the hazard of fires and explosions from gasoline fumes.

Exhaust fan consists of heavy duty fully enclosed spark proof motor driving a sirocco type exhaust fan.

No. 1 2	Size Intake Inches 3 4	Size Outlet Inches 21/4 4	t 8 7	imensions Overall Inches 1/2x6x6 1/2x8x8	Capaci Cubic F Per Min 90 186	eet Fl ute In 31/2	ange ches x3 ¹ / ₂ x4 ¹ / ₂
Volta 6 12 32 110	No. Eac \$10. 10. 13.	h 50 50 50	No. 2 Each \$26.00 26.00 26.00 29.00	Ami No. 1 3.25 1.70 .75 .25	No. 2 7. 4. 1.5 .45	No. 1 19.6 20.8 20.0 27.0	No. 2 42.0 48.0 49.0 50.0

The 110 volt fan has a universal motor, for AC and DC current.

A caution plate is furnished with every fan.

Heavy Duty Blowers FOR CONTINUOUS OPERATION 4 INCH INLET AND OUTLET

No. 3—With 110 volt A. C. standard open frame motor. 1/20th H. P., 1750 R. P. M., 186 cubic feet capacity. Each \$45.00

No. 4—With 110 volt A. C. standard open frame motor. ¼ H. P., 3450 R. P. M., 385 cubic feet capacity. Each \$58.00

Exhaust Fan Ventilator

WITH SWIVEL DECK PLATE-CAST BRONZE

a	
Fig. 634	

Can be turned in any direction, made in two heights, furnished with cover for deck plate when vent is removed. Side of deck flange can be cut away for installing against side of deck house.

Fig. 634	No. 1 2	Diam. Bottom Opening 2 2 2	Extreme Height Inches 61/8 8	Size of Mouth Inches 21/4 x 4 1/2 21/4 x 4 1/2
Polished Bronze Each \$8.00		Nickel Plated Each \$8.75		Chromium Plated Each \$9.50

"Perko" Exhaust Fan and Ventilators

WITH ROUND OR OVAL MOUTH VENTILAT AND NO. 1 EXHAUST FAN, 3 INCH INTAK

Round Mouth Oval Mouth

Fig. 780 has a spun brass or copper ventilator inch bottom opening, 5 inch mouth, 7 inches high (all.

Fig. 781 has a cast bronze ventilator 2 inch bo opening, 2¼x4½ inch mouth, 6½ inches high overs

Both ventilators have cast bronze swivel deck pl

Don't forget to mention the voltage.

For information on Exhaust Fan see Fig. 778.

Turbine Ventilator

GALVANIZED IRON AND COPPER



For removing gasoline fumes from engine room bilge, cooking odors from the galley, ventilation of cabins, etc.

The moving breeze whirls the head and the resu vacuum causes a powerful upward lift to the air b Absolutely quiet in operation, durable and rainp

Diam.	Galv.	Copper
Body Inches	Iron Each	Each
	\$ 8.50	\$13.00
45	8.50	13.00
6	8.50	13.00
7	8.50	14.00
8	10.00	15.00
10	11.50	18.00
12	14.00	23.00

Ship and Yacht Ventilators

SEAMLESS STEEL-16 GAUGE HOT DIPPED GALVANIZED



Fig. 290

Made of 16 gauge sheet steel and hot galvanized after abrication. Joints are welded smooth before galvanizbg and have no visible seams after galvanizing.

Furnished with brass rim around mouth and with or vithout bottom bands or deck flanges.

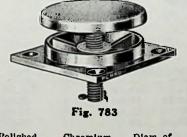
Hoods with deck flange have thumb screws in band to asten to flange, deck flange is grooved.

Diam.	Hood Only	Hood Only			
Bottom	Without	With	Hood With	Diam.	Height
Dpening	Band	Band	Galvanized	Mouth	Overall
luches	Each	Each	Deck Flange	Inches	Inches
10	\$44.00	\$47.00	\$ 59.00	20	26
12	52.00	55.00	69.00	24	30
14	60.00	63.00	79.00	28	36
16	66.00	69.00	87.00	32	42
18	70.00	73.00	93.00	36	48
20	80.00	84.00	107.00	40	52
24	90.00	94.00	120.00	48	60

We can furnish above with galvanized and bronze wivel deck plates as Fig. 419. Price on application.

Ice Box Ventilators

CAST BRONZE—POLISHED



No. I 2 3

Polished	Chromium	Diam. of	Size
Bronze	Plated	Opening	Plate
Each	Each	Inches	Inches
\$2.00	\$3.00	15/8	21/2x21/2
2.25	3.25	21/2	31/4×31/4
3.25	4.25	3	41/8×41/8
4.00	5.25	33/8	47/8×47/8

Oval Mouth Ventilators

CAST BRONZE

Of high grade castings, finely finished, green enameled interior.

The screw type is furnished complete with watertight cover and key for use when vent is removed.

The swivel type is adjustable and can be fastened in any position by three thumb screws. A brass friction cover is also furnished for use when vent is removed.



Fig. 509

Plate Opening Inches 3 4	Pol. Bronze Each \$12.00 15.00	Nickel Plated Each \$14.00 17.00	Chrom. Plated Each \$16.00 19.00	Height Above Deck Inches 8½ 85/8	Size Mouth Inches 6 ¹ /4 x 4 6 ¹ / ₂ x 4 ³ / ₄	
		OUTITIT	00177073			

SWIVEL TYPE



Fig. 515

Diam.	Pol.	Nickel	Chrom.	Above	Size	
Throat	Bronze	Piated	Plated	Deck	Mouth	
Inches	Each	Each	Each	Inches	Inches	
3	\$13.00	\$15.00	\$17.00	91/8	61/4 x 4	
4	16.00	18.00	20.00	95/8	61/2 x 4 3/4	

Swivel Ventilator

ROUND MOUTH-CAST BRONZE

Made of heavy cast bronze, swivel deck plate, thumb screw for fastening in position. Cast cover to take place of vent when removed. Set screw to prevent loss of thumb screw. Vent painted green on inside. Diam. bottom opening, 3¼ in.



Diam. bottom opening, 3¼ in Diameter mouth, 5% inches Height overall, 9 inches Diameter base, 6¼ inches Weight each, 11 pounds

PRICE EAC	H
Polished	\$13.50
Nickel Plated	15.50
Chromium Plated .	17.50

Fig. 198

Seamed Hood Ventilator WITH BRONZE SCREW DECK PLATE

Constructed of heavy sheet steel or brass. Steel ventilators are completely formed and then hot galvanized.

4	Deck Plate Opening Inches	Opening of Mouth Inches	Height Inches
PERAD	2	4	5
	2½	5	6
	3	6	7
The second	3½	7	10
	4	8	11
	4½	9	12
	5	10	14
	6	12	15
	8	16	21
Fig. 151	12	24	30

Deck Plate Opening Inches	Galv. Each	Polished Brass Each	Deck Plate Opening Inches	Galv. Each	Pollshed Brass Each
2	\$ 6.00	\$ 7.75	5	\$13.25	\$15.50
21/2	6.25	8.00	6	18.00	21.00
3	6.50	8.25	8	28.00	32.00
31/2	7.25	9.25	12	65.00	74.00
4	8.25	10.25			
41/2	11.00	13.25			

Riveted Hood Ventilator WITH BRONZE SCREW DECK PLATE

Constructed of heavy gauge sheet steel, hot g= ized or brass. Riveted at the joints. Brass rim a mouth on galvanized vents, 4½ inch and smaller—

Æ	Deck Plate Opening Inches	Diam. Mouth Inches	H
	3	6	
0	3 1/2	Ť	
1. 18 0	4	8	
	4 1/2	9	
	5	10	
C	6	12	
Church All	8	10 12 16	
Fig. 369	12	24	

Deck Plate Opening Inches	Galv. Each	Polished Brass Each	Deck Plate Opening Inches	Galy. Each	Polish Bras Eacl
3	\$10.00	\$12.00	5	\$19.00	\$22.
31/2	11.50	13.75	6	24.00	27.
4	13.00	15.50	8	35.00	42.
41/2	15.50	17.50	12	77.00	86.0

Seamed Hood Ventilator

WITH BRONZE SWIVEL DECK PLATE

Heavy sheet steel or brass. Steel vents are hot galvanized after forming. Furnished with spun brass cover for deck plate when vent is removed, at small additional charge.

Riveted Hood Ventilator

WITH BRONZE SWIVEL DECK PLATE

Made of heavy gauge sheet steel, hot galvanized brass. All joints riveted. Brass rim around mouth galvanized vents, 4½ inch and smaller. Brass cover deck plate at small additional charge.

14970	Deck Plate Size Inches	Dlam. Mouth Inches	Height Overall Inches	2	Deck Plate Size Inches	Diam. Mouth Inches	Hel Over Inc
	3	6	71/2		3	6	1
	4	8	10		4	8	1
	5	10	121/2	Breek E Line	5	10	
CASE DI	6	12	15	A CAR	6	12	1
N	8	16	20		8	16	
	9	18	221/2		9	18	
	10	20	25	C MARS COLLE	10	20	2
	12	24	30		12	24	3
Fig. 575				Fig. 368			

Deck Plate Size Inches 3 4 5 6	Galv. Each \$ 7.75 11.00 14.50 20.00	Polished Brass Each \$ 9.50 12.50 16.75 23.00	Deck Plate Size Inches 9 10 12	Galv. Each \$26.50 33.00 47.00 64.00	Polished Brass Each \$30.00 42.00 56.00 74.00	Deck Plate Size Inches 3 4 5 6	Galv. Each \$11.00 15.75 20.50 26.00	Polished Brass Each \$13.50 18.00 23.00 29.50	Deck Plate Size Inches 8 9 10 12	Galv. Each \$35.00 42.00 56.00 75.00	Poliske Brass Eact \$41.0 51.0 65.0 85.0
---	---	---	--	---	---	---	---	---	---	---	--

THE SIZES SHOWN ON THE ABOVE VENTILATORS ARE STANDARD. SPECIAL DIAMETERS ALLENGTHS CAN BE FURNISHED, MADE TO ORDER. SPECIAL PLATED OR PAINTED FINISHES SMALL ADDITIONAL CHARGE.

Above items desired NICKEL PLATED, add 20% to Polished Brass Price Above items desired CHROMIUM PLATED, add 40% to Polished Brass Price

Spun Ventilators

Spun from heavy gauge sheet brass or copper. Comte with cast bronze screw deck plate, cover and key.



Fig. 152

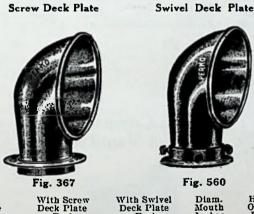
Deck				
Plate	Polished	Pollshed	Diameter	Height
Slze	Brass	Copper	Mouth	Overall
nches	Each	Each	Inches	Inches
2	\$ 6.50	\$ 7.75	- 4	6
21/2 3	7.00	8.25	5	7
3	7.50	8.50	6	8
31/2	8.25	9.25	7	9
4	8.75	10.00	8	101/2
5	16.50	18.75	10	14

Nickel Plated, add 20% to above prices. Chromium Plated, add 40% to above prices.

Hammered Copper Ventilators

WITH SCREW OR SWIVEL DECK PLATE

Heavy gauge sheet copper, hammered to shape by nd, hammer marks remaining in surfice. With cover d key for screw deck plate.



455 3

Fig. 199



Fig. 560

es	With Screw Deck Plate Each	With Swivel Deck Plate Each	Diam. Mouth Inches	Height Overall Inches
	\$17.50	\$20.50	6	8
	23.50	27.50	8	11
	39.00	43.00	10	13
	44.00	48.00	12	15
	68.00	70.00	16	20

Larger Sizes-Price on Application

Cast Bronze Ventilator ROUND MOUTH-SCREW DECK PLATE

Diam. bottom opening, 3 inches Diameter mouth, 6 inches Height overall, 8½ inches Diameter deck flange, 4% in. Weight, 5 pounds



Cast Bronze Hood Ventilator

WITH SCREW DECK PLATE



Fig. 421

A ventilator that will last longer than the boat. Highly polished on outside, painted green on inside. With cover and key for screw deck plate.

Deck Plate Size Inche	Diam. Mouth	Height Overali Inches	Net Weight Lbs.
3	6	73/8	41/2
4	8	7 3/8 9 3/8	81/2

Size	Polished Bronze	Nickel Plated	Chromium Plated
Inches	Each	Each	Each
3	\$12.00	\$14.00	\$16.00
4	15.00	17.00	19.00

Seamless Steel Ventilators

HOT DIPPED GALVANIZED WITH CAST BRONZE DECK PLATES





Screw Deck Plate Fig. 510

Swivel Deck Plate Fig. 513

These are our latest improvement in hood type venti-lators, made of heavy gauge sheet steel and hot gal-vanized after fabrication. The body is smooth and free of seams, has a brass rim around the mouth and makes a sturdy and good looking ventilator.

Deck Plate Opening Inches	With Screw Deck Plate Each	With Swivel Deck Plate Each	Mouth	Height Overall Inches	Gauge Before Galvanizing
3	\$12.00	\$14.00	6	8	24
4	15.50	18.00	8	11	24
5	19.50	22.00	10	13	24
6	29.50	32.50	12	15	24
8	46.50	48.00	16	20	20



Streamline Ventilator FOR CRUISERS CAST BRONZE



Designed for mounting against side of deck house or cabin. Takes up very little space. Practical and pleasing to the eye. Will fit over pipe up to 2 inches.

Size of	Extreme	Extreme	Extreme	Weight
Mouth	Height	Length	Width	Each
Inches	Inches	Inches	Inches	Pounds
4x13/8	53/4	63/4	23/8	1 3/8
Polished		Nickel	Chromium	
Bronze		Plated	Plated	
Per Pair		Per Pair	Per Pair	
\$7.00		\$8.00	\$9.00	

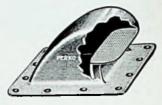
A pair consists of one right hand and one left hand.

Cruiser Ventilator

STREAMLINE-CAST BRONZE



Fig. 908



Cut away view showing screen and water guard

An extremely neat ventilator for cruiser deckcabin roofs.

An integral water guard inside mouth prevents = or rain from entering ventilator. A bronze screen manently installed to keep insects out of cabin.

Polished Bronze Each \$7.00	Nickel Plated Each \$7.50	Chromium Plated Each \$8.00	Size Base Inches 7x7	Height Overall Inches 31/2	Wa Po 4
---	---	---	-------------------------------	-------------------------------------	---------------

Engine Compartment Outlet Ventilator



Fig. 329

For use on hulls of runabouts or cruisers. Mad cast bronze, highly polished, interior painted in g enamel.

Inches 2%x5	th	Height Inches 6¾	Diameter Opening Inches 21/2	Diameter Flange Inches 4	Wels Ound 19
d r	Nickel Plated Per Pair \$6.00	Chrome Plated Per Pair \$7.00	Pollshed Bronze Each \$1.75	Nickel Plated Each \$2.00	Chromius Plated Each \$2,50

Space Saver Ventilator

577

CAST BRONZE

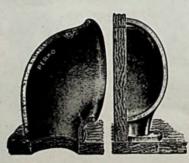


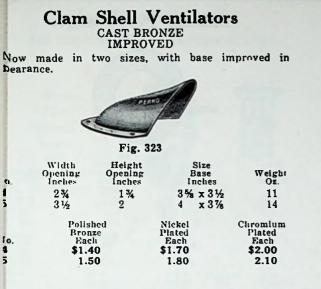
Fig. 782

Designed especially for mounting against outside of deck house or cabin, takes up very little space, can be used to advantage in connection with exhaust fan fig. 778.

Inside Diameter at Base Inches 2¹/₂

Plain Bronse Per Pair \$4.50

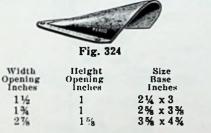




Streamline Ventilator

CAST BRONZE CLAM SHELL TYPE

A new design of runabout ventilator that will match aer streamline fittings on the deck. Made in three es, small size can be used as shield for water outlet hulls of cruisers.



0

Þ

R

123

٦,

0

Polished Bronze Each \$1.20	Nickel Plated Each \$1.40	Chromium Plated Each \$1.70
•		• - · -
1.30	1.50	1.80
1.40	1.70	2.00

Streamline Ventilator

CAST BRONZE

FOR RUNABOUTS

Cast in one piece, painted green on inside, made in) sizes.



Automatic Boat Drainer

BRASS TUBING—CAST BRONZE FITTINGS BALL TYPE—STREAMLINE

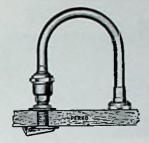


Fig. 397

The most dependable and safest automatic boat drainer on the market. 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.

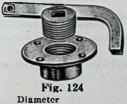
Heavy bronze strainer in inlet end.

Starts draining at 7 miles per hour.

No.	Each	Height Inside Hull Inches	Diam. Tubing Inches	For Thickness Hull Inches	Weight Pounds
2	\$ 7.50 10.00	151/2	3/4 1 1/8	up to 11/2 up to 21/4	4

Garboard Drain Plug CAST BRONZE—PLAIN

A few of these installed in garboard allows quick drainage of boat when hauled out, by removing heavy plug. Complete with wrench for removing plug, tapered thread, 1-in. pipe size. Absolutely water-tight.



Complete With Wrench Each \$1.60

Weight Oz.

4

6

12

Depth Inches

Weight Ounces 10

Self Locking Gas Tank Cap CAST BRONZE

Flange

Inches

23/4



A half turn will open or lock cap in an instant. Locking device is indicated at A. Interior of neck below flange is threaded for 1½ inch pipe.

\$2.00 \$2.50 \$3.00 11/2 31/8 11/2	Polished Bronze Per Set \$2.00	Nickel Plated Per Set \$2.50	Chromium Plated Per Set \$3.00	Diam. Opening Inches 11/2	Diam. Flange Inches 31/8	Height Closed Inches
-------------------------------------	--	---------------------------------------	---	------------------------------------	-----------------------------------	----------------------------

For Pipe Inches 2 21/2 3 31/2

3 31/2

Tu

Maxim Silencers WET TYPE-MODEL M3 CAST IRON

Fig. 334

For Exhaust Pipe Inches 11/2 2	Eacb \$ 12.75 15.50	Diameter Inches 43/4 61/4	Length Overall Inches 93/4 11	Weight Pounds 834 15
21/2	21.00	7 <u>13</u>	123/8	30
3	26.00	9 <u>5</u>	131/2	40
31/2	35.00	1 1	143/4	60
4	39.00	123⁄8	153/4	80
5	104.00	14	23	145
6	149.00	14 1 5	271/2	170

Removable Flanges on both ends to connect standard pipe or tubing.

Use same size Silencer as diameter of Exhaust Pipe.

Made in one solid casting-cannot leak. Can be installed anywhere, close to engine or in stern of boat.

Used with equal success on Diesel as well as gasoline engines.

The Model M3 silencer is designed for marine engines where water is injected into the exhaust line, and when properly installed will give practically complete elimination of the exhaust noise without imposing noticeable back pressure.

All sizes are faced and drilled for standard pipe flanges. All sizes are fitted with tapped openings over the inlet and under the outlet for a water connection and water drain respectively.

Designed to take all the cooling water discharge from the engine making unnecessary any other water discharge through the hull. Can be installed practically anywhere in the exhaust line that is convenient, either near the engine or near the stern, however a two foot tail pipe at the silencer outlet will give best results.

Maxim silencers are available for dry exhausts of gasoline and Diesel engines. Give bore, number of cylinders, R. P. M. and exhaust size.



Exhaust Pipe Flanges

VERK(

	Fig	. 214	
For Plpe 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Inside Diameter Inches 23/8 27/8 31/2 4	Outside Diameter Inches 41/8 51/4 61/4 61/4	Weigh Each 13 o 1 lh 11/2 11/2
Size 2 21/2 3 31/2	Plain Bronze Each \$1.00 1.50 1.50 1.50	Polished Bronze Each \$1.75 1.75 2.25 2.25	Chrc: Pla Es \$2. 2. 2. 2. 2.

Exhaust Tube Flanges CAST BRONZE



Fig. 738	
for Inside Outside	11.
bing Diam. Diam.	Wei, Es
ches Inches Inches	C.8.
$\begin{array}{c} \text{ches} & \text{Inches} & \text{Inches} \\ 2 & 2\frac{1}{16} & 4 \\ \end{array}$	
$2\frac{1}{2}$ $2\frac{1}{16}$ $4\frac{3}{8}$	14
3 3 🕂 5	
$3\frac{1}{2}$ $3\frac{1}{10}$ $5\frac{1}{2}$ 4 $4\frac{1}{10}$ 6	1/2
$4 4\frac{1}{10} 6$	1/2
Plain Polished	Chroz
Bronze Bronze	Plat
Size Each Each	Esc
2 \$.90 \$1.65	\$2.1
	2.2
2 ¹ / ₂ 1.00 1.75 3 1.00 1.75	2.2
31/2 1.40 2.15	2.7
4 1.45 2.20	2.8

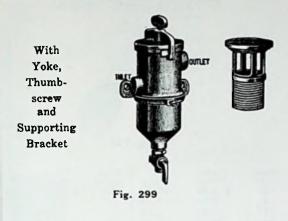
Check Valves

CAST BRONZE A simple but exceptionally dependable check va Threaded to fit standard pipe.

C		Plung	er	Sprit
S.				(LTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
E		Fig. (68	Fig. 6
Fig. Size Pipe Inches 3/4 1 1/4 11/2	. 273 Complete Each \$2.50 3.00 3.50 4.00	Plunger Only Each \$.60 .70 .80 .90	Springs Only Each \$.12 .15 .17 .20	Lens Orivi Inct 24 3 3 3

Gasolene Strainer

PLAIN BRONZE-WOVEN COPPER SCREEN



ze o. . 1/2	Price Each \$5.00 7.00 9.00	Lengtb Overall Inches 51/2 61/4 71/4	Diam. Inches 2 3/8 3 1/8 3 7/8	Tapped For Pipe Inches 1/4 or 3/8 3/8 or 1/2 1/2 or 3/4	Weight Each Pound 3 5 7	
-------------------	---	---	--	---	--	--

lover easily removed and the strainer removed for aning without disturbing pipe connections. Pet cock bottom drains the settling chamber. Side bracket supts the strainer, relieving the fuel pipes of all weight.

Intake Water Strainers

CAST BRONZE



Fig. 493

. durable water strainer, to be located between the t connection and the water pump on the engine.

double core of bronze screen cloth prevents sand dirt from entering the pump and water jacket.

. special heat resisting boro silicate glass cylinder kes it possible to observe conditions at all times.

lay be taken apart readily for cleaning.

Each \$ 9.00	For	Extreme	Extreme
	Pipe Size	Height	Width
	Inches	Inches	Inches
15.00	1 or 11/4	51/4 71/2	35/8

pecify size pipe when ordering.

5.

Engine Aligners

CAST IRON-PAINTED



Fig. 1029

These wedge type engine aligners allow vertical and horizontal engine adjustment quickly and with slight effort.

Consists of two main parts, a lower wedge which bolts to the engine bed by elongated bolt holes for horizontal adjustment and the upper wedge which slides between the lower wedge and the mounting lug of the engine.

The engine is held down by a bolt which passes through a slot in the upper wedge into a threaded part of the lower wedge.

To adjust height of engine the hold down bolt is loosened and the upper wedge is slid on the lower wedge by turning the adjusting screw with a socket wrench. Provision is made for locking adjusting screw in desired position.

No. 1 Aligner is for engines up to about 700 pounds.

No. 2 Aligner is for engines over 700 pounds.

No. 1 2		Each \$3.00 3.80	For Bolts Inches 3/8 1/2	Lengti Overal Inches 6 ¹ / ₈ 8 ¹ / ₂	l Bolts	Width Inches 11/4 2	Weight I'ounds 2 3
	No. 1 2		Height To Middle Adjustmens Inches 1 3/4 2 3/8	t	Total Vertical Adjustment Inches 1/2 3/4	Ho Adj	Total rizontal ustment Inches 1/2 3/4

Gy-A-Liner Engine Aligners

CAST IRON-PAINTED

Patent Applied For

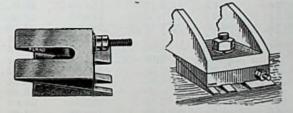


Fig. 1097

Proper alignment of engine eliminates whipping of propeller shaft, excessive heating of stuffing boxes and other bearings.

No training, experience, or unusual mechanical ability is called for to install or adjust the Gy-A-Liner. Nothing tricky or delicate.

Consists of two cast iron wedges adjusted by a galvanized bolt to various heights as required.

Suitable for all light and medium weight engines.

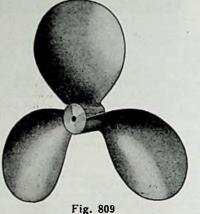
Each \$.85	Size Inches $2\frac{1}{2} \times 2\frac{1}{2}$	Engine Bolt Inches 1/2	Height of Adjustment Inches	Weight Each Pounds 3/4	
	Inches	Inches			



9

Columbian Propellers

MANGANESE BRONZE AND MONEL METAL AILSA CRAIG TYPE FOR GENERAL ALL AROUND USE, THE MOST POPULAR OF ALL COLUMBIAN PROPELLERS



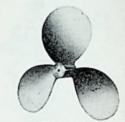
Diam.	-Mangano	se Bronze-	Monel	Metal
Inches	Blade	Boring	Blade	Boring
8	\$ 7.30	\$ 1.70	\$ 11.70	\$ 2.75
9	8.30	1.70	13.58	2.75
10	8.80	1.70	14.00	2.75
ii	9.20	1.80	14.75	3.00
12	9.95	2,05	15.95	3.50
13	10.85	2.15	17.40	3.50
14	12.70	2.30	20.40	4.00
15	14.05	2.65	22.50	4.25
16	16.05	2.65	25.75	4.25
17	18.00	3.00	28.80	5.00
18	19.20	3.00	30.75	5.00
19	23.40	3.30	37.45	5.50
20	27.60	3.30	44.25	5.50
21	33.00	3.70	52.80	5.50
22	38.40	3.70		6.00
23	42.60		61.45	6.00
24		4.20	68.50	6.75
25	46.80	4.20	75.00	6.75
	51.00	4.80	82.00	8.00
26	55.20	4.80	89.00	8.00
27	61.80	5.50	99.00	9.00
28	67.00	5.50	107.00	9.00
30	74.40	6.10 -	120.00	10.00
32	84.00	7.00	135.00	11.50
33	90.00	8.40	145.00	13.50
34	94.80	8.40	152.00	14.00
35	100.20	9.60	160.00	15.50
36	104.40	9.60	168.00	15.50
38	124.80	11.30	200.00	18.00
40	160.80	12.85	258.00	20.50
42	172.80	16.20	277.00	26.00
44	201.60	17.70	322.00	29.00
46	240.00	19.20	384.00	31.00
48	282.00	24.00	452.00	40.00
50	306.00	31.00	490.00	50.00
	000.00	51.00	490.00	50.00

High Speed Type STYLE S. S.

Fig. 810

Popular in certain sections of the country for high speed boats.

PRICES SAME AS AILSA CRAIG TYPE ABOVE



Columbian Propellers PEERLESS QUALITY AILSA CRAIG TYPE

Fig. 739

Diam.	Three		Dlam.	Three
Inches	Blade	Boring	Inches	Blade
8	\$ 4.87	\$1.70	25	\$ 34.00
9	5.53	1.70	26	36.80
10	5.87	1.70	27	41.20
11	6.13	1.80	28	44.67
12	6.63	2.05	30	49.60
13	7.23	2.15	32	56.00
14	8.47	2.30	33	60.00
15	9.37	2.65	34	63.20
16	10.70	2.65	35	66.80
17	12.00	3.00	36	69.60
18	12.80	3.00	38	83.20
19	15.60	3.30	40	107.20
20	18.40	3.30	42	115.20
21	22.00	3.70	44	134.40
22	25.60	3.70	46	160.00
23	28.40	4.20	48	188.00
24	31.20	4.20	50	204.00

Speed Boat Rudders

CAST MANGANESE BRONZE

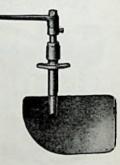


Fig. 813

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

No.	Size of Rudder Inches	Diam. of Stock, Ins.	Total length of Stock, Inches	Length of Tiller, Ins.	Suitable for Boats	Price Complete	Extra for longer stocks, per inch	
1	9x14	1	12	12	16 ft. to		0 19	e
2	10x16	1	12	12	22 ft. long 20 ft. to 26 ft. long 26 ft. to	\$20.90	3.14	e.,
•	11-10		10		26 ft. long	22.60	.12	
3	11x18	1%	12	14	26 ft. to 35 ft. long	25.40	.15	1
4	12x20	11/4	12	16	30 ft. to	20.40		
				1.25	40 ft. long	31.90	.20	1

Perkins Marine Lamp & Hardware Corp. 99

Hyspeed Rudder and Stock

「雪明

CAST MANGANESE BRONZE

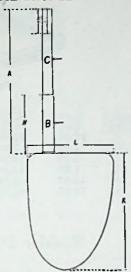
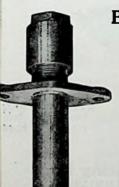


Fig. 818

nstructed in perfectly balanced proportion. Designed r express cruisers, runabouts, speedboats and all ats not carrying a skag.

DIMENSIONS, INCHES

0.	A	B	C	I	K	L	N	Price Each
L	16	1	18	3	12	9	9	10.25
2	18	1 1/8		3	14	101/2	91/2	12.80
3	18	11/4	110 110	4	16	12	10	14.50
1	24	1 3%	1%	4	18	131/2	101/2	20.25
5	24	11/2	11/2	4	20	15	11	28.00
3	30	1 3/4	1 3/4	4	22	161/2	111/2	41.00
7	36	210	2	อีอีอี	24	18	12	56.00
3	40	21/4	2	ā	26	20	121/2	70.00



Fig

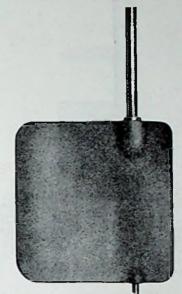
Bronze Rudder Ports

WITH STUFFING BOX

	For Diam. Stock Inches	Price Each
	3/4	\$4.50
	3/4 7/8	5.00
	1	5.50
	11/8	6.00
	11/4	7.50
	1%	8.00
a la contra la contra la	1½	9.00
>	Fig. 814	

Bronze Rudder Collars

	For Diam. Stock Inches	Price Each
-	1	\$1.00
	1 1/8	1.00
HEF	11/4	1.25
. 815	1%	1.50 1.80
	1 72	1.00

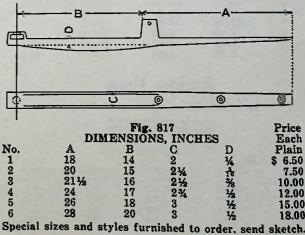


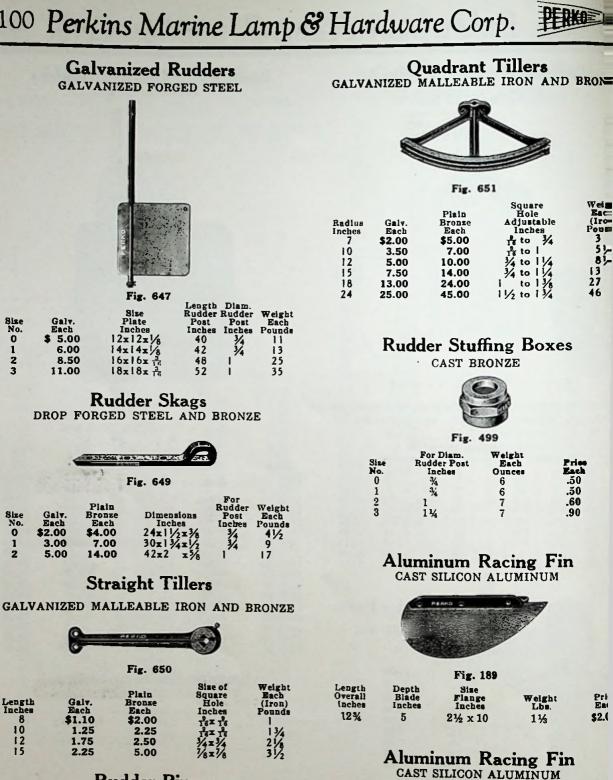
Launch and Cruiser Rudders CAST MANGANESE BRONZE

Fig. 816

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Blade Size Inches	Blade Thickness Inches	Diam. of Stock Inches	Total Length of Stock, Ins.	Longer Stocks Per Inch	Price Each
13 x 13 $\frac{14}{4}$ $\frac{7}{6}$ 12.1211.0014 x 14 $\frac{14}{4}$ $\frac{7}{6}$ 12.1212.0015 x 15 $\frac{14}{4}$ 112.1214.0016 x 16 $\frac{14}{4}$ 112.1216.0018 x 16 $\frac{14}{4}$ 112.1217.0018 x 18 $\frac{14}{4}$ 112.1217.0020 x 18 $\frac{14}{4}$ 1 $\frac{14}{4}$ 18.2021.0020 x 20 $\frac{14}{4}$ 1 $\frac{14}{4}$ 18.2024.0022 x 18 $\frac{14}{4}$ 1 $\frac{14}{4}$ 18.2032.0022 x 20 $\frac{3}{6}$ 1 $\frac{14}{4}$ 18.2033.0024 x 20 $\frac{3}{6}$ 1 $\frac{14}{4}$ 18.2033.0024 x 22 $\frac{3}{6}$ 1 $\frac{14}{4}$ 18.2033.0024 x 24 $\frac{3}{6}$ 1 $\frac{14}{4}$ 18.2034.5024 x 26 $\frac{3}{6}$ 1 $\frac{14}{4}$ 18.2034.5024 x 26 $\frac{3}{6}$ 1 $\frac{14}{4}$ 18.2034.5024 x 26 $\frac{3}{6}$ 1 $\frac{14}{4}$ 22.2450.0026 x 26 $\frac{3}{6}$ 1 $\frac{14}{4}$ 22.2450.00	12 x 12	1/4	3/4	12	\$.12	
14 x 14 $\frac{14}{4}$ $\frac{7}{8}$ 12.1212.0015 x 15 $\frac{14}{4}$ 112.1214.0016 x 16 $\frac{14}{4}$ 112.1216.0018 x 16 $\frac{14}{4}$ 112.1217.0018 x 16 $\frac{14}{4}$ 112.1219.0020 x 18 $\frac{14}{4}$ 1 $\frac{14}{4}$ 18.2021.0020 x 20 $\frac{14}{4}$ $\frac{14}{4}$ 18.2024.0022 x 18 $\frac{14}{4}$ 1418.2032.0022 x 20 $\frac{3}{4}$ $\frac{14}{4}$ 18.2033.0024 x 20 $\frac{3}{4}$ $\frac{14}{4}$ 18.2033.0024 x 22 $\frac{3}{4}$ $\frac{14}{4}$ 18.2033.0024 x 24 $\frac{3}{4}$ $\frac{14}{4}$ 18.2034.5024 x 26 $\frac{3}{4}$ $\frac{14}{4}$ 22.2450.0026 x 26 $\frac{3}{6}$ $\frac{14}{2}$ 22.2450.00	13 x 13	1/1	7/8	12	.12	11.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	14 x 14	1/4	7/8	12	.12	12.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	15 x 15	1/4	1	12	.12	14.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	16 x 16	1/4	1	12	.12	16.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	18 x 16	1/4	1	12	.12	17.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	18 x 18	1/4		12	.12	19.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	20 x 18	1/4	14	18	.20	21.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	20 x 20	1/4	11/4	18	.20	24.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	22 x 18	1/4	14	18	.20	24.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	22 x 20	3/8	11/4	18	.20	32.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	22 x 22	3,8	11/4	18	.20	33.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	24 x 20	3%8	1 1/4	18	.20	33.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	24 x 22	3/8	14	18	.20	33.50
24 x 26 3/8 1½ 22 .24 50.00 26 x 26 3/8 1½ 22 .24 50.00	24 x 24	3%8	11/4	18	.20	34.50
26 x 26 3/8 11/2 22 .24 50.00		₹8	11/2	22	.24	50.00
	26 x 26	3%8	1½	22	.24	50.00

Rudder Shoes or Skags CAST MANGANESE BRONZE





Rudder Pipes

GALVANIZED STEEL AND BRASS A CONTRACTOR OF THE OWNER

		Fig. 652		
Size No. O	Galv. Each \$1.00	Brass Each \$2.25	Length Inches 12	Weight Each Pounds 1 3/8
1	1.00	2.25	12	13/8
2	1.50	3.50	15	2 0
3	1.75	4.50	18	21/2



Depth Blade Inches 51/4

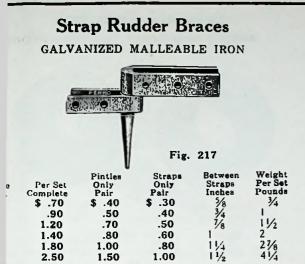
Fig. 190 Size Flange Inches 2x9

Weight Ounces 14

Price Each \$2,00

Perkins Marine Lamp & Hardware Corp. 101 I PERKI

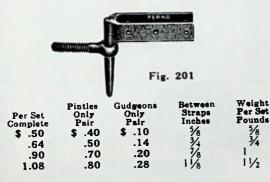
bottom.



Set consists of two Pintles and two Straps.

Screw Rudder Braces

GALVANIZED MALLEABLE IRON



•

DESIC

Pri Per

\$

Sliding Rudder Fittings



For use on dinghys and small sail boats. Rudder can be quickly and easily attached or removed. The rudder slides on a cast bronze track which has a stop at the

Complete Per Set \$3.25	Track Only Each \$1.65	Between Straps Inches 7/8	Width Track Inches	Length Track Inches 18
-------------------------------	--	------------------------------------	--------------------------	---------------------------------



Fig. 1070



Plate Rudder Braces

GALVANIZED MALLEABLE IRON



Fig. 743

SIGNED	FOR	SQUARE	STERN B	OATS
Price Per Set	Plates Only Per Pair	Pintles Only Per Pair	Opening Between Straps Inches	Est. Wt. Per Set in Lbs. 3/4
.80 1.00	\$.40 .50	\$.40 .50	5/8	174
1.30	.60	.70	3/4 1/8	13/8
1.50	.70	.80		21/8

Set consists of Two Plates and Two Pintles

Plate Gudgeon

Plate Gudgeon

Fig. 1072

Betwee Straps Inches 1/2 3/8 3/4

No.

1



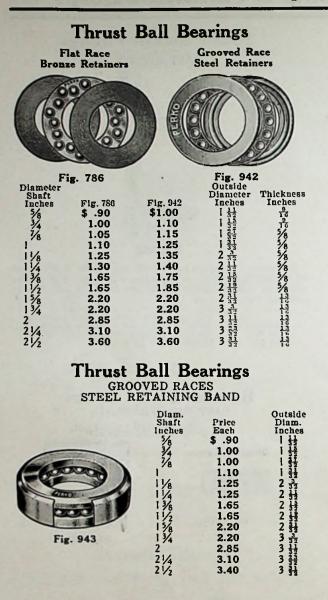
Fig. 1073

Screw Gudgeon

donutin 1000 Fig. 1074

Fig. en 1071 s Pintles s Each \$.30 .35	Fig. 1070 Strap Gudgeon Each \$.25 .30	Fig. 1072 Plate Gudgeon Each \$.25 .30	Fig. 1073 Plate Gudgeon Each \$.25 .30	Fig. 1074 Screw Gudgeon Each \$.10 .10
.40	.35	.35	.35	.15
	.30	.30	.30	.10

102 Perkins Marine Lamp & Hardware Corp.



Intermediate Bearings BABBITTED



Fig. 941

Diameter Shaft	Price Each	Length Overall	Length Bearing
Inches	\$3.35	Inches 71/4	Inches 31/2
11/8	3.60	81/4	33/4
11/4	4.00	81/4	33/4
13/8	4.25	81/4	337
11/2	4.50	91/4	41/4
13/4	5.00	91/4	41/2
2	. 5.55	101/2	5

Above prices do not include grease cup.

Safety Shaft Collars

CAST SEMI STEEL-MACHINED

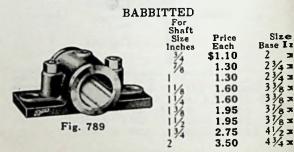




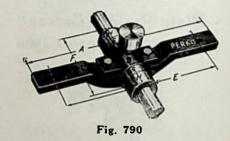
PERKO

Split Type Fig. 788 Solid Type Fig. 787 Shaft Split Type Price Each Solid Type Price Each Size Inches \$0.65 \$0.45 3/4 .70 .45 7⁄8 .75 .55 1 .85 11/8 11/4 13/8 11/2 13/4 2 .60 .95 .70 1.00 .75 1.10 .80 1.00 1.30 1.50 1.10

Flat Bearings

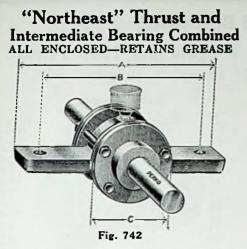


Rear Bearings



Prices apply to rear bearing only. Collars thrust bearings shown on cut are not included.

Shaft Size	Price	A	Е	F
Inches	Each	Inches	Inches	Inch
7/8	\$ 3.85	71/8	6	5%
1	4.68	131/5	103/4	2 1
11/8	4.68	131/2	103/4	5 1
11/4	5.50	15	12	67
13/8	5.50	15	12	61
11/2	6.60	161/2	131/2	77
13/4	7.70	20	161/2	71
2	11.00	20	161/2	8%



No more dry or burnt out thrust bearings due to lack of grease.

A heavy housing containing two sets of thrust bear-ings for forward and reverse. Dirt cannot get in, grease cannot get out.

For Size Shaft	Price	А	в	С
Inches	Each	Inches	Inches	Inches
5/8	\$7.70	10 1/2	91%	31/4
3/4	8.80	10 1/2	91/8	31/4
7/8	10.00	101/2	91/4	31/4
1	11.00	11	91/2	31/2
1 1/8	12.10	111/4	9	31/2
11/4	13.20	111/4	9	4 🗛
1%	15.40	111/4	9	4 1
11/2	17.60	1114	9	4 1
1 34	19.80	12	10	4 1/2
2	22.00	12	10	41/2

Universal Joints DROP FORGED STEEL

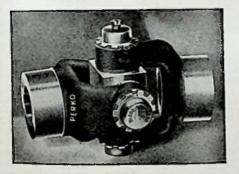


Fig. 791

An extremely rugged joint designed principally for marine use, turns in a small circle and is lubricated through a simple opening, the use of these joints will reduce vibration and lengthen the life of the boat and motor motor.

Size No. 1 2	Price Single Joint Each \$10.40 14.00	Price Double Joint Each \$18.80 25.30	Maximum Shaft Diameter Inches i 3/8 1/2	Diameter Swing Inches 4 3/8 5 1/8	Length Single Joint Inches 7 1/2 7 1/2
3	17.80	30.40	178	5 3/4	$8\frac{1}{2}$
4	21.80	37.25	178	61/8	$8\frac{1}{2}$
5	32.80	60.00	218	6 3/4	$10\frac{1}{2}$
6	65.00	119.00	234	8 1/8	$14\frac{1}{2}$

"Northeast" High Speed Radial and Thrust Bearing Combined NO MORE SCORED SHAFTS



Fig. 1090

Here is a radial and thrust bearing that will increase R. P. M. due to use of ball bearings throughout. Takes care of the thrust both forward and backward along with the radial load. Requires no attention. Will stand high speed up to 8,500 R. P. M. Will not throw grease. Just fill with gear grease up to bottom plug in housing.

Shaft can not be scored as it is enclosed by an internal housing which turns with the shaft on high speed ball bearings.

		Width	Width
For Size		Årms	Center to Center
Shaft		Overall	of Holes
Inches	Each	Inches	Inches
3/4	\$11.00	10	8
7/8	12.00	11	9
I	13.20	11	9
11/8	16.25	11	9
11/4	17.20	11	9
13/8	19.50	11	10
11/2	21.10	11	10
13/4	24.00	11	91/2
2	27.00	12	10
21/4	28.50	12	10
21/2	32.80	12	10



Fig. 327

No.	Price Each	Size Shaft Inches	Diam. Flange Inches	Length Overall Inches
1	\$3.50	3/4-7/8-1	4	31/2
2	4.25	3/4 to 11/2	41/2	41/8
3	5.25	$1\frac{1}{8}$ to $1\frac{1}{2}$	5	43/3
-14	8.00	l to 2	6	61/2

For divided sizes such as 1 x 1¹%, etc., add \$.50 each. For special boring, not listed, add \$1.00 each. For ¹/₂ coupling add \$.25 to half of above prices. No bolts furnished.

SIZE OF KEYWAY IN SHAFT COUPLINGS Sise Keyway Inches I'A I'A I'A I'A I'A I'A I'A I'A I'A Size Shaft

GOODRICH CUTLESS BEARINGS

Stock Sizes-Table of Dimensions, Weights and 1938 Prices

SIZES SHOWN HERE ARE IN STOCK FOR IMMEDIATE SHIPMENT

AShaft	B Outside	Standard	E Rubber	D Metal	Shipping		Sp'l L'gt
Diam		Length Inches 3		Wall	Shipping Weight Lbs.	Price Each	Sp'l L'gt Price Pe Lin, In
Jum. Inches 3/4 7/8 7/8	$\frac{11}{4}$ $\frac{11}{4}$ $\frac{11}{4}$ $\frac{11}{4}$ $\frac{11}{2}$ $\frac{11}{2}$ $\frac{11}{2}$ $\frac{11}{2}$	3	1/8	18	3/4 3/4	\$ 6.20	\$2.27
78 7/8	11/2	31/2 31/2	1/8 1	/8 /8	3/4 3/4	7.20 7.20	2.27
1	1/2	4	1/8	1/8	1	8.30	2.38
	1 3/8	4	16	/8	1/4 1/2 1/4 1/2	8.30 8.30	2.3 8 2.3 8
11/8	1 5/8 1 3/4		1/8	1/8	11/4	9.80	2.44
1/8	13/4	41/2 41/2 41/2	16	1/8	1 1/2	9.80 9.80	2.4 4 2.4 4
10101011111111111111111111111111111111	13/4	5	16	18	1 3/4 1 1/2 1 3/4 1 3/4 1 3/4 2 1/4 2 1/2	11.20	2.50
1/4	2	5 5 5	1/4	1/8	13/4	11.20	2.50 2.50
13/8	17/8	51/2	IG Va	/8 //8	1 3/4	11.20 12.40	2.50
1%	21/8 17/8 21/8 23/8	5 1/2 5 1/2 5 1/2 6	1/4	1/8	21/4	12.40	2.66
11/2	2	5 Y2 6	2/8 1/2	/8	21/2	12.40 14.30	2.66 2.78
1/2	2 3/8	6	Ĩ	1/8	2 2 1/2 2 1/2 2 1/4	14.30	2.78
1 5/8	25/8	61/2 61/2	/8	8	21/4	16.70 16.70	3.0 2 3.0 2
1%	2 3/8	7	70 10	1/8	3 2 3/4 3 1/4 3 1/4	18.90	3.16
1 1/4	25/8	7 71/2		1/8	31/4	18.90	3.16 3.26
11/8	2 3/8 2 1/8 2 3/8 2 3/8 2 5/8 2 5/8 2 5/8 2 5/8	71/2	/4 ∰	78 1/8	4	20.80 20.80	3.26
2 2	25/8	8	10	1/8	31/2	21.80	\$3.30
21/8	2 18	8 81/2	1/8 1/8	/8	31/2 41/2 41/2 43/4 41/2	21.80 23.50	3.30 3.30
21/8	31/8	81/2 81/2	3/8	1/8	4 3/4	23.50	3.30
21/4	2 18 31/8	9 9 9 9 9 9	32	8	41/2	25.40 25.40	3.36 3.36
21/4	33/8	9		1/8	5 6	25.40	3.36
21/2	31/8	91/2 10	3/8	1/8	6 5	27.30	3.38 3.44
21/2	33%	10		78 1/8	6	28.20 28.20	3.44
2/8 22/4 22/4 22/4 22/4 22/2 22/2 22/2 2	3 2 3 2 1 4 5 3 3 3 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	101/2	1/4	In characteristic and the second s	53/4	30.80	3.50 3.56
23/4	33/4	ii	10 3/4	/8	53⁄4 6	33.40 33.40	3.56
27/8	33/4	111/2	16	1/8	63/4	34.70	3.62
3	4	12	1/4 3/2	1/8	8 81/2	36.80 36.80	3.66 3.66
31/8	41/4	121/2	I	1/8	81/2	39.60	3.72
31/4	41/4	13	14	/8	95/4 10	42.60 42.60	3.86 3.86
33/8	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	131/2	10	1/8	1034	46.00	4.02
31/2	41/4	14		1/8	10	49.10	4.14
35%	41/2	141/2	78 10	78 1/8	111/2 123/2 101/2 173/4	49.10 53.60	4.36
33/4	41/2	15	1/4	1/8	101/2	59.50	4.68 4.68
3 3/4	51/4 51/4	15 15 15 15 ¹ / ₂		18 3	18	59.50 59.50	4.68
3 1/8	51/4	151/2	1/2	18	20	63.60	4.84 5.04
4	51/4		18 	10	28	68.40 68.40	
	51/4	161/2	3/8	$\frac{1}{3}$	31	68.40 71.60 74.40 77.80	5.12
43/8	53/	171/2		10	291/2	74.40	5.12
41/2	51/2	18	18	16 3 16	331/4	82.00	5.36
45/8	61/4	18	14	18	35	82.00	5.36
43/4	61/8	19	11	14	433/4	82.00 82.00 89.40 96.30	5.94
5 8	61/8	191/2	716	18	43	101.20	6.10
10476/1/200770 14444444555555555555555555555555555555	51/4 55/2 55/2 55/2 55/2 66/2 66/2 66/2 66/2	16 16½ 17 17½ 18 18 18½ 19½ 20 21 21½ 22 22½ 22½ 22½ 22½ 22½	古が、ひとうすいとうちょうというないと		291/2 31 291/2 331/2 35 39 433/4 43 45 501/4 801/4 75 65 70 623/4 70	106.60 106.60	5.04 5.12 5.22 5.36 5.68 5.94 6.10 6.28 6.28 6.28 6.64 6.80 6.95 7.04 7.18 7.64
53/4	7	21	Ţ	H.	801/4	118.30	6.64
51/2	7	22 22	Ye V2	1/8	75	124.00 129.20	6.95
53/	7	221/2	11	14	70	134.50	7.04
6	71/2	24	1/8	12	623/4	134.50 140.20 156.00	7.64
			12	14	10	120.00	States and



Fig. 1021

Stern Bearings with goodrich cutless bearings cast bronze

With Oval Flange

Fig. 381

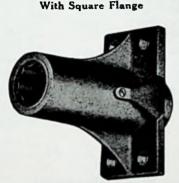


Fig. 382

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.

The flanges correspond in sizes with the usual bronze and babbitted bearings of this type. The Goodrich Cutless Bearing can be easily removed from the main casting by taking out the set screws holding same.

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.

Sise		Size	Length
Shaft Inches	Each	Flange Inches	Bearing Inches
1	\$13.70	$5 \times 2\frac{1}{2}$	4
11/8	16.40	51/2x23/4	41/2
14	18.90	6 x3	5
1%	21.40	61/2x31/4	51/2
11/2	27.00	$7 \pm 3\frac{1}{2}$	6
11/4	35.80	8 x4	7
2	43.70	91/4x45/8	8
21/4	55.60	101/2=51/4	.9
2/3	64.80	11/2=53/4	10
23/4	79.00	123/4x63/8	11
2	93.00	[4 x7	12

Holes in flange will be drilled at no additional charge when requested. Give size and spacing wanted.

Rubber Engine Mountings

PREPARED FOR MARINE ENGINE INSTALLATIONS-LACQUERED



Fig. 455

Provides an elastic mounting for moving machinery of all kinds.

Made of 3 metallic members securely bonded to 2 resilient rubber elements arranged in such a manner that the loads are carried in a combination of shear and compression, the central inverted metal "U" carries the load and the extended metal flanges on either side are bolted to the engine bed, thus the rubber connector strips absorb and stop vibration created by the engine, eliminating vibrational noises, and increasing the mechanical efficiency of the engine.

The adhesion of the rubber to the metal is over 250 pounds per square inch.

Furnished in various lengths for various installations.

The rubber is coated with a long life elastic lacquer making it impervious to the effects of bilge water, oil, grease and dampness.

Furnished with or without a steel plate riveted to the flanges, the steel plate permits the fastening of the mounting to the engine before installing so that engine can be properly lined up.

If plate is not used the rubber will stretch and lose its compression quality before the mounting is bolted to the bed.

The only time the plate is not necessary is when the type of installation will allow the mounting to be bolted to the bed before the weight of the engine is put on it, this of course should not be done when installing an engine in a boat, as proper "lining up" would be extremely difficult.

Extreme width of mounting, 4% inches.

WITH RETAINING PLATE

Length Inches	6	8	10	12
Price Each	\$3.60	\$4.50	\$5.30	\$6.00

WITHOUT RETAINING PLATE NOT LACQUERED

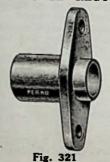
Length Inches 4	6	10	12
Price Each \$1.70	\$2.40	\$3.75	\$4.25



Size

Shaft Inches	Each	Flange Inches	Bearing	Fastening Inches	y Weight Pounds
3/4	\$1.75	41/8x13/4	23/8	3/8	11/4
7/8	2.00	41/4x11/8	21/8	10	11/2
1	2.25	41/2x21/4	3	7	13/4
11/8	2.75	51/8x23/8	31/4	1/2	21/4
11/4	3.25	6 x25/8	33/8	1/2	3
13/8	4.00	61/4x3	33/8	1/2	31/4
11/2	4.50	61/2x3	3 1	1/2	31/5
13/4	6.50	7 x33/4	33/4	5/8	53/4

Stern Bearings CAST BRONZE-REGULAR



Size Shaft Inches 3/4 7/8 1 11/8	Each \$1.00 1.25 1.50 1.75	Size Flange Inches 41/6x13/4 41/4x17/6 41/2x21/4 51/6x23/6	Length Bearing Inches 2 3/8 2 7/8 3	Drilled for Fastenin, Inches 3/8 1 1 1 1 1 1	g Weight Pounds 13 oz. 1 lb. 1 ¹ /4
14	2.00	6 x25/8	33/8	1/2	2/2
11/2	2.50 3.25	61/4x3 61/1x3	3%	1/2	21/4
11/2	4.00	7 = 33/4	31/4	1/2 5/8	33/

Stuffing Boxes and Stern Bearing THREADED FOR PIPE





-	10xbbbd	
U		

Fig.	712
	10

Size	Stuffing	Stern	Size	$\begin{array}{c} \text{Drilled}\\ \text{for}\\ \text{for Pipe ing}\\ \text{inches Inches}\\ \frac{3}{4} \\ \frac{3}{4} \\ \frac{1}{7} \\ \frac{1}$
Shaft	Box	Bearing	Fiange	
Inches	Each	Each	Inches	
3/4	\$2.50	\$1.75	4 x21/8	
7/8	2.75	2.00	43/4 x27/6	
1	3.00	2.25	43/4 x27/6	
1/8	3.50	2.50	53/4 x3	
11/4	4.00	2.75	6 x3	
13/8	5.00	3.50	6/2 x3 3/6	
11/2	5.50	4.25	63/4 x3 3/6	

Stuffing Boxes





Fig. 631

				Drilled		
Size Shaft Inches 3/4 7/8	Plain Each \$3.50 4.00 4.50	Babbitted Each \$4.75 5.50 6.25	Inches 4 ¹ / ₂ x2 ¹ / ₂ 5 ¹ / ₈ x2 ³ / ₄ 5 ³ / ₄ x3	for Fasten- ing Inches 3/8 3/8 1/2 1/2	Bearing	Wels= Pout= 21/2 31/4
11/8	5.00	6.75	6¾x3¼	1/2	5	4 3/4
1 1/4 1 3/8 1 1/2 1 5/8	6.00 7.00 8.50 10.00	7.75 8.75 10.75 13.25	7 x3½ 75%8x3¾ 8½8x4 85%8x4	5/8 5/8 3/4 3/4	5 1/2 6 6 1/2 7	61/3 8 91/2 101/2
3/4 7/8 2	11.50 13.00 14.50	15.00 17.00 19.00	91/8×4 93/4×41/4 101/8×41/2	3/4 3/4	7 1/2 8 8 1/2	111/2 13 141/2

Length of Bearing does not include Packing Nut.

Stern Bearings CAST BRONZE-HEAVY

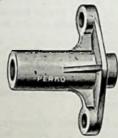


Fig. 632

~				Drilled for		
Size			Size	Fasten		Weig
Shaft	Plain	Babbitted		ing	Bearing Inches	Poun
	Each	Each	Inches	Inches		
3/4	\$2.50	\$3.75	41/2x21/2	3/8	31/2	14
1/8	2.75	4.25	51/8=23/4	1. 78	4	21/
1	3.00	4.75	53/423	00 1/2	41/2	234
11/8	3.25	5.00	63/8x31/4	1/2	5	33/1
11/4	3.75	5.50	7 x31/2	00 5/8	51/2	4%
13/8	4.50	6.25	75/8x33/4	5/4	6	61/1
11/2	5.50	7.75	81/814	3/	61/2	71/
1 5/8	6.75	10.00	85/ 4	12	7 *	81/
. 78	0.15	10.00	85/8x4	F. 74		
13/4	8.00	11.50	91/8x4	1. 3/4	71/2	9
17/8	9.25	13.25	93/4=41/4	3/4	8	10%
2	10.75	15.25	101/8×41/2	3/4	81/2	1134

Extra Heavy Stuffing Box RECTANGULAR FLANGE—CAST BRONZE

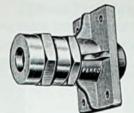


Fig. 819

For Diam. Shaft	Plain	Babbitted	Size of Flange	Length Bearing
Inches	Each	Each	Inches	Inches
1	\$ 5.25	\$ 7.00	5 x3	41/8
11/8	5.75	7.50	51/2×31/4	41/8
11/4	6.75	8.50	53/4x35/8	45/8
13/8	8.00	9.75	6 x4	51/8
11/2	10.00	12.25	$6 \times 4\frac{1}{2}$	55/8
13/4	12.50	16.00	61/2×41/2	7
2	16.00	20.50	73/4x5	71/8
21/4	22.00	28.00	81/4x51/2	8
21/2	32.00	40.00	9 x61/2	81/2

Extra Heavy Stern Bearing

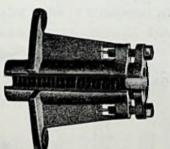
RECTANGULAR	FLANGE-	-CAST BI	RONZE
	For Diam.		
C INAL	Shaft	Plain	Babbitted
	Inches	Each	Each
7 100	1	\$ 3.50	\$ 5.25
	11/8	4.00	5.75
	11/4	4.50	6.25
	13/8	5.50	7.25
- ARHO	11/2	6.50	8.75
	13/4	9.00	12.50
	2	11.75	16.25
P. Alter	21/4	16.50	22.50
the second second	21/2	24.00	32.00

Fig. 906

Size of Flange and Bearing same as Fig. 819 above.

Flax Packed Stuffing Box and Stern Bearing

WITH RECTANGULAR OR OVAL FLANGE



RECTANGULAR FLANGE—Fig. 811 OVAL FLANGE—Fig. 821

Shaft	Size	Length	
Size	Flange	Bearing	Price
Inches	Inches	Inches	Each
1	514 x2%	51/4	\$ 6.25
1%	6 x3	5%	7.00
14	6% x3 1	614	7.75
1%	714 x3%	6%	8.75
11/2	8 x4	734	11.00
1%	9 1/4 x 4 5/8	9	16.00
2	10 ½ x5 ¼	918	20.00
21/2	12 x6	111%	26.00
21/2	13 14 x6 %	124	35.00

Self Aligning Stuffing Box

CAST BRONZE-RECTANGULAR FLANGE



Fig. 734

Rubber mounted motors are in common use, so why not a good, strong, practical rubber mounted stuffing box.

Our self-aligning shaft log Fig. 671 is very popular, but this stuffing box does the trick where a wood log is used.

A cast bronze base and stuffing box joined by heavy rubber hose and extra strong hose clamps.

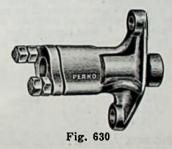
No.	Price Each	For Size Shaft Inches	Size Flange Inches	Length From Flange to End of Box Inches
1	\$7.00	34-76-1	5x34	6%
2	11.00	1%-1%	6x4¼	7%
3	13.00	$1\frac{3}{8}-1\frac{1}{2}$	7x41/2	834
4	36.00	1 3/4 - 2	8x6	151/2

No. 4 size has Stuffing Gland like Fig. 630 instead of Nut, and four hose clamps.

Can be made one inch shorter if desired by cutting off that much hose.

Improved Stuffing Box

EXTRA HEAVY—CAST BRONZE



A decided improvement over the regular type of stuffing box, extremely strong and heavily constructed, no nuts to bind on shaft or turn off, used with right or left hand engines, packing gland is kept in proper adjustment by two heavy tightening nuts and two lock nuts.

			I	Drilled for	
Size		7	Slze	Fasten-	Length
Shaft Inches	Plain Each	Babbitted Each	Flange	lng Inches	Bearing
1	\$4.50	\$6.25	53/4x3	1/2	5
11/8	5.00	6.75	63/8x31/4	1/2	51/2
11/4	6.00	7.75	7 x31/2	5/8	6
13/8	7.00	8.75	75/8=33/4	3/8	61/2
11/2	8.50	10.75	81/8×4	1/4	7
13/4	11.50	15.00	91/8x4	14	8
2	14.50	19.00	101/8=41/2	3/4	9



Fig. 627

Without doubt a shaft log superior to any other as yet on the market, made entirely of high grade cast bronze, stuffing box is adjustable to any angle in a 360° radius and is supported by two adjustable lugs to keep it from turning with the shaft should binding or freezing ever occur. Furnished complete with grease cup and rubber gasket for installing.

No.	Price Each \$13.75	Size Shaft Inches	Length Base Inches 16	Width Base Inches 31/3	Weight Pounds 14
_		741 781		272	
2	20.00	1/8, 1/4	22	41/4	19
3	29.50	13/8, 1/2	26	5	30
4	38.00	13/4, 2	28	51/2	57

Specify Shaft Size When Ordering

Self Aligning Shaft Log CAST BRONZE



Fig. 671

A shaft log designed for high speed motors, the stuffing box and shaft are cushioned in rubber which will eliminate excessive wear of both and reduce vibration to a minimum. A cast bronze base and stuffing box joined by heavy rubber hose and extra strong hose clamps.

No. 1 2	Price Each \$ 8.00 14.00	For Size Shaft Inches 3/4-7/8-1 11/8-11/4	Size Base Inches 11x31/2 17x41/4	Length Overall Inches [8 2314	Degrees of Weigh Pitch Pound 14 6 11 12	
3	20.00	1 1/8-11/2	19x5	231/2 28	11 12	

STUFFING BOX AND EXTRA RUBBER HOSE FOR SELF ALIGNING SHAFT LOG AND STUFFING BOX



No. 4 size has stuffing gland like Fig. 627 instead of nut.

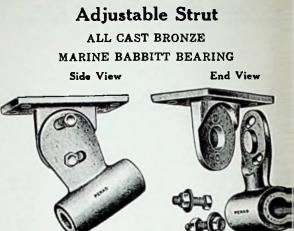


Fig. 628

Adjustable to any practical angle of the propell shaft, held fast at necessary angle by three heabronze bolts, bearing is of a special marine babbi the highest grade obtainable. Length of drop is figur from bottom of keel to center of shaft.

Size Shaft Inches 34, 78, 1, 178		Width Flange Inches 3		Length Flange Inches 51/2		Length Rearis, Inches 41/8	
1)	4. 13/8	. 11/2		31/2	61/2		41/2
Leng				Shaft I	nches		
Drop In.	34	7/8	Size	2 Shart 1 11/8	11/4	1%	15
5	\$8.00	\$8.00	\$8.00				
6	8.25	8.25	8.25	\$11.25	\$11.25	\$13.00	
6 7	8.35	8.35	8.35	11.50	11.50	13.25	
8	8.50	8.50	8.50	11.75	11.75	13.75	13.7
ğ	9.00	9.00	9.00	12.00	12.00	14.10	14.1
ιó	9.50	9.50	9.50	12.30	12.30	14.35	14.3
ii	10.00	10.00	10.00	12.30	12.75	14.65	
12	10.00	10.00	10.00	13.25	13.25	15.00	

Specify Size Shaft and Length of Drop, When Orderi:

Adjustable Strut

WITH GOODRICH RUBBER BEARING

CAST BRONZE-EXTRA HEAVY

Size Shaft Inches 3/4 7/8 1 1/8 1/4 1/4 1/6 1/2	Width Flange Inches 3 3 3 3 2 3 2 3 2 3 2 2 3 2 2	Length Flange Inches 51/2 51/2 51/2 61/2 61/2	Length Bearing Inches 3 3 4 4 4 2 5 5 5 2 2 6	Tra
Lgth.		6 1	Obe de Te abe	Fig. 1019

Dro	p		Siz	e Shaft I	nches		135
In.	*	7/8	1	114	11/4	1%	
- 5	\$18.50	\$19.25	\$22.00	\$24.00	\$28.70	\$30.20	1001
6	18.80	19.55	22.30	24.30	29.00	30.50	
7							
-	19.10		22.60	24.60	29.30		
8	19.40	20.15	22.90	24.90	29.60	31.10	
9	19.70	20.45	23.20	25.20	29.90	31.40	
10	20.30		23.80	25.80	30.20		33.
iĭ	20.30	21.03	43.00	23.00		32.00	
					30.50		
12					31.25	32.75	
S	pecify S	ize Shaf	t and L	ength of	Drop V	when ore	iering

"Perko" Reverse Gear Controls

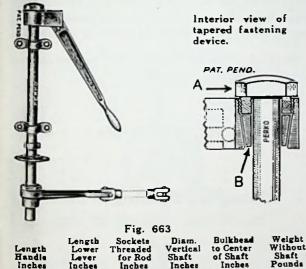
HEAVY CAST BRONZE—POLISHED FOR 1 INCH OR 1½ INCH SHAFT

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 scating 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.



18	10	3/4	11/8	2	151/4
Fittings c	omplete-	except sh	aft		\$20.00
l inch bro	onze shaft-	-per foo	t	*****	2.00
11/8 inch	bronze sha	ft-per f	oot	******	2.50

Do not fail to specify size of shaft when ordering

Reverse Gear Controls

SPECIAL CAST BRONZE

A good substantial handle which will not bend under side leverage, special hard government bronze. Handle is removable and a flush plate is furnished to fit opening in deck flange.

Furnished with two sockets threaded for $\frac{3}{4}$ inch rod. Deck flange is $5 \times 2\frac{3}{4}$ inches. Length of throw is $8\frac{1}{4}$ inches.

Polished	Chromlum	Length	Length
Bronze	Plated	Handle	Lever
Each	Each	Inches	Inches
\$13.50	\$16.25	25	8

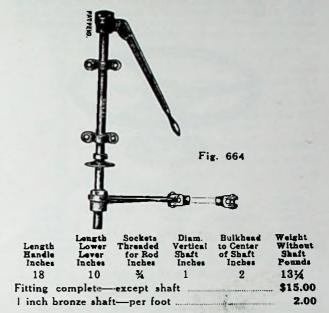
Fig. 720

"Perko" Reverse Gear Controls

HEAVY CAST BRONZE—POLISHED FOR 1 INCH SHAFT

Same tapered bushing device as Fig. 663 in upper and lower levers, no machining of shaft necessary.

Control handle is hinged so that it hangs in vertical position out of way when not in use.



Columbian Clutch Control

CAST BRONZE—POLISHED



Fig. 822

Furnished as shown with choice of bulkhead bracket or shelf plate and without shaft. All fittings for 1 inch shaft. Length of handle 8 inches. Price per set_________\$12.00

Above items, (Except Fig. 720) desired CHROMIUM PLATED, add 40% to Polished Bronze Price



Racing Outboard Steerer

WITH REMOTE THROTTLE CONTROL AND CUTOUT

Genuine Husted hard rubber wheel with one-piece steel core. Base, drum and control fittings are of silicon alumnium (salt water resisting), strong and sturdy, but light in weight. A strong bronze friction arrangement in base prevents control from accidental turning while wheel is in operation. A spring terminal is provided for motor shut-off. Steerer is furnished complete with 10 feet of Bowden wire and fittings.

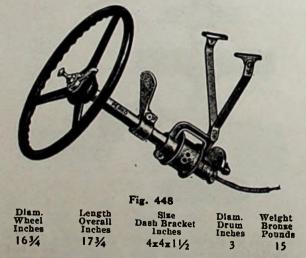


Diam. Wheel Inches 163/4	Diam. Base Inches 71/8	Fig. 447 Height Overall Inches $6\frac{1}{2}$	Weight Pounds 8½	Price Each \$14.00
-----------------------------------	---------------------------------	---	------------------------	--------------------------

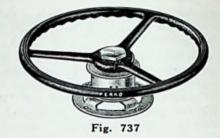
Runabout Steerer

IMPROVED DASH TYPE WITH THROTTLE AND CHOKE CONTROLS

Genuine Husted hard rubber wheel with one-piece steel core. An adjustable dash bracket which can be fitted on either side of dash board at any angle desired. Adjustable collar allows dash bracket to be placed wherever needed on steerer shaft. A supporting bracket for lower end of steerer can be attached to most suitable place in the boat. Throttle control on wheel complete with 10 feet control casing and wire. Choke control in center of wheel with 14 feet of control casing and wire concealed in hollow shaft. This steerer furnished of all bronze or all aluminum construction, except drum, which is aluminum in either case. Furnished complete with bowden wire.



Polished Bronze—without Choke Control \$20.00 Polished Bronze—with Choke Control 22.00 Exposed Parts, Nickel Plated, add \$1.00 each. Exposed Parts, Chromium Plated, add \$2.00 each. Improved Racing Steerer HARD RUBBER STEEL CORED WHEEL WITHOUT CONTROLS



The main features of this steerer are, strength combined with lightness of weight, hard rubber steel cored wheel and salt water resisting aluminum castings, larger diameter drum, allowing faster steering action, and reduction of overall height to a minumum

Designed principally for use in the popular class A B and C outboard motor boats.

Diameter Wheel Inches	Height Overail Inches	Diam. Base Inches	Diam. Drum Inches	Price Each
16¾	5	71/4	4	\$11.00

Mahogany Steering Wheels

INLAID RIM-CAST BRONZE HUB



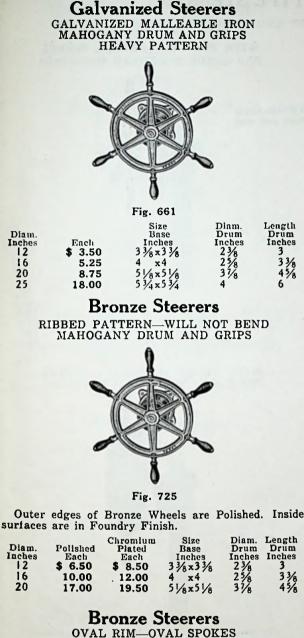
Fig. 657

Diam. Overall Inches 20	Each \$25.00	For Diam, Shaft Inches ½ or 1	Thickness of Hub Inches 21/8	Size Keyway Inches 1/4
24	30.00	1	21/8	12
28	36.00	1	21/8	1/4
30	42.00	1	21/8	1-21-21-21-21-21-21-21-21-21-21-21-21-21
32 34	48.00	11/8	21/8	ĨĒ
	51.00	11/8	21/4	Te
36	66.60	11/4	21/2	3/8
42	81.50	11/2	21/2	2/8
48	92.50	13/8	21/2	3/8

All above wheels are measured from end to end of grips.

Above wheels with drum and stand furnished promptly to order.

0.0



Diam.

Inches

16

20 25

Diam.

Inches

16

20

MAHOGANY DRUM AND GRIPS



		Fig. 6	60		
Diam. Inches I 2 16 20	Polished Bronze Each \$ 6.50 10.00 17.00	Chromium Plated Each \$ 8.50 12.00 19.50	Size Base Inches 3 3/8 x 3 3/8 4 x 4 5 1/8 x 5 1/8	Diam. Drum Inches 23/8 25/8 37/8	Length Drum Inches 3 3 3/8 4 5/8

Bronze Worm Geared Steerer

Worm type gears enclosed in cast bronze case produce powerful action remarkably smooth in operation and insures easy steering, 1¼ turns of the wheel obtains 45 degree angle of rudder.

Worm type gears auto-matically "lock" the rudder in desired position until wheel is turned to change course.

Wheel is of heavy cast bronze, highly polished, with hardwood handles.

Wheel shaft is 1 inch diameter bronze rod and all fittings are for 1 inch diam. rod.

Fig. 820

Complete except shafting, with 16 inch bronze

wheel	\$35.00
Complete except shafting, with 20 inch bronze wheel	37.25
With 24 inch bronze wheel	41.25
Worm Steerer only, without wheel, shafting or other fittings	16.00
16 inch bronze wheel only	10.00
20 inch bronze wheel only	12.00
24 inch bronze wheel only	16.00
Lower lever with clevis	4.75
Bulkhead bracket only	2.25
Floor plate only	2.25



Lever Only Each

\$3.00

Complete Each \$4.75

> Q Fig. 1009

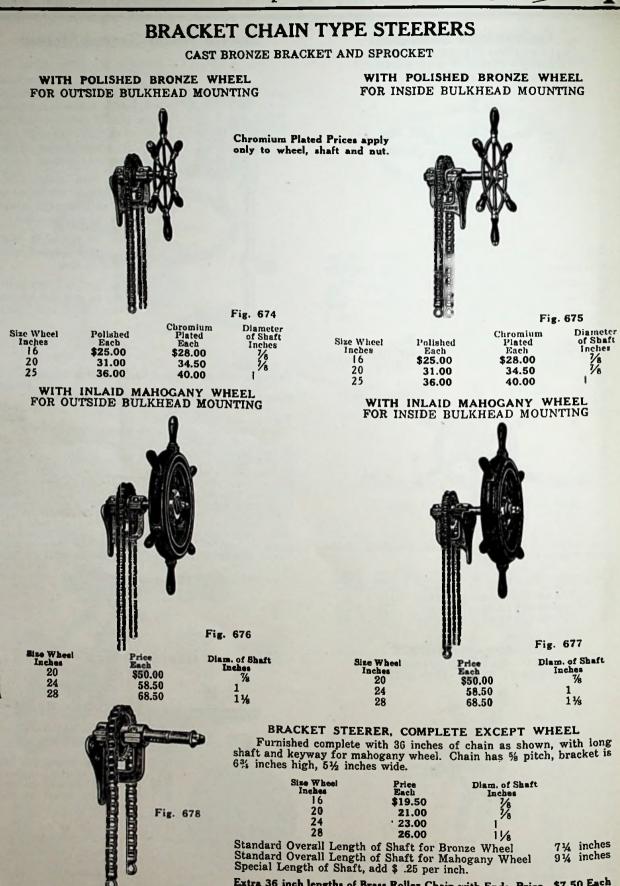
Clevis Only Each Length Overall Inches 101/4 \$1.75

Folding Stool CAST BRONZE

SUPPORTS

An ideal fitting for the average cruiser, appreciated by boat owners who have spent hours at the wheel.

m. at Offset es Inches 4 3 6



 Bronze Steering Wheels ROUND SPOKES—ROUND RIM TEAKWOOD HANDLES



Fig. 197

Diam. Inches 20 24 28	Polished Each \$12.00 16.00 22.00	Chromium Plated Each \$16.00 21.00 28.00	For Diam. Shaft Inches I I I I/4	Length Hub Inches 21/8 21/8 21/2	Keyway Inches 1/4 1/4 5 16
-----------------------------------	---	---	--	---	---

Bronze Steering Wheels POLISHED—HEAVY TYPE USED ON FIG. 674 CHAIN TYPE STEERER



Fig. 976

Diam. Inches 16 20 25	Pollshed Each \$ 7.50 8.50 11.50	Chromium Plated Each \$ 9.50 10.75 15.00	For Diam. Shaft Inches 7/8 7/8 1	Length Hub Inches ¹⁵ 1 1 1/4	Keyway Inches 1/4 1/4 1/4	
-----------------------------------	--	---	---	---	---------------------------------------	--

Galvanized Steering Wheels WITH WOOD HANDLES, BRONZE TIPS



ig.	977	
ıg.	977	

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	25 28 30	18.00 21.00 24.00	6 6 8	Sbaft Inches 13 14 1 1 1 8 1 1/8 1 1/4 13/4	$2\frac{7}{8}$ $2\frac{15}{16}$ $3\frac{3}{16}$	16 21
--	----------------	-------------------------	-------------	---	---	----------

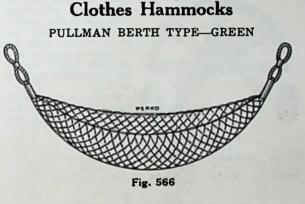
Hubs for Wood Steering Wheels

CAST BRONZE

Fig. 1018

Pollshed Bronze Each \$ 5.00	Nickel Plated Each \$ 6.00	Chromium Plated Each \$ 6.80	Number of Spokes 6
		* * * * * *	6
		16.50	8
	Bronze	Bronze Plated Each Each \$ 5.00 \$ 6.00 7.00 8.00	Bronze Plated Plated Each Each Each \$ 5.00 \$ 6.00 \$ 6.80 7.00 8.00 9.00

State Size of Bore and Keyway when ordering.



The same type as used in Pullman sleeping cars. These have many uses in a boat. Length overall, 66 inches. \$1.95 Price Each

Plates for Hanging Berths



Top of plate is beveled to fit curve of ceiling. Fur-nished in pairs for right and left hand mounting. Hole ½ inch diameter.

Polished	Nickel	Chrom.	Length	Width
Bronze	Plated	Plated	Overall	Overall Thickness
Per Pair	Per Pair	Per Pair	Inches	Inches Inches
\$1.30	\$1.70	\$2.00	$2\frac{1}{2}$	17/8 1/4



Spark and Throttle Controls FRICTION TYPE FOR CONTROL ROD CAST BRONZE

All control connections are inside bulkhead, out of sight after installation. Control rod sockets are tapped for ¼ or to inch rod. Shafts for connecting rods are long enough for mounting on bulkhead 2 inches thick.

Poliabed Nickel Chromium Size Weight Bronze Plated Plated Frame Each Each Each Each Inches Pounds	\$4.75 Sockets	\$6.00	\$7.00	61/2x31/4	11/4
Fig. 053	Polished Bronze Each	Nickel Plated Each	Plated Each	Frame Inches	Each Pounds

specified.

Spark and Throttle Controls

FRICTION TYPE-FOR BOWDEN WIRE

Same construction as Fig. 653 above except connec-



tions which are de-signed for a bowden wire and casing installation. Equipment in-cludes special clips for connecting bowden wire and two swivel clamps for supporting bowden casing.

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

Polished
Bronze Each
\$6.00
+0.00

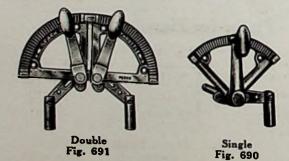
Nickel Plated Each \$7.25



Size	Weight
Frame Inches	Each Pounds
61/2x31/4	11/2

Spark and Throttle Controls

RATCHET TYPE-FOR CONTROL ROD CAST BRONZE



Rod connections are inside bulkhead out of sight. Can be mounted on bulkhead up to 1% inches thick. Rod sockets are for fs inch rod. Furnished for ¼ inch rod to order.

Fig. 690 691	Polished Bronze Each \$2.75 5.50	Nickel Plated Each \$3.25 6.75	Chromium Plated Each \$4.00 7.75	Size Frame Inches 41/4x31/8 6 x3
--------------------	--	--	--	--

Spark and Throttle Control FOR ½ OR 5/16 CONTROL ROD CAST BRONZE-RATCHET TYPE



A strong ratchet holds handles in position desired. furnished complete with control rod sockets threaded for ¼ or 5/16 inch rod.

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Length Plate Inches	Width Plate Inches
\$5.50	\$6.00	\$7.00	6	21/2
BE SURE TO	SPECIFY	SIZE OF R	OD WHEN	ORDERING

Throttle Controls FOR CONTROL WIRE AND CASING CAST BRONZE-RATCHET TYPE



Fig. 715

A strong and very practical control for all types of boats. an improved ratchet device that is almost noise less, yet the handle cannot be shifted out of place by vibration. Furnished with finishing plate for outside of bulkhead, all bolts and swivel fittings for control wire and casing.

Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Length Plate Inches	Width Plate Inches 2 3/8
\$4.00	\$5.00	\$5.50	\$6.50	6	2%

Throttle Controls

FOR ½ OR 5/16 CONTROL ROD CAST BRONZE-RATCHET TYPE



Fig. 716

Handle cannot be shifted by vibration due to improved ratchet device that is practically noiseless.

Furnished with control rod socket threaded for 4 or 5/16 inch rod, finishing plate for outside bull head and all necessary bolts.

Plain	Polished	Nickel	Chromium	Length	Width
Bronze	Bronze	Plated	Plated	Plate	Plate
Each	Each	Each	Each	Inches	Inches
\$4.00	\$5.00	\$5.50	\$6.50	6	23/8
BE SURE	TO SPEC	IEV SIZE	OF BOD WH	EN ORDE	RING



Sturdily constructed of cast bronze especially de-signed for the racing driver's convenience. A long handle giving full leverage. Arrangement of side plate allows installation on gunwale while at the same time, it does not project above deck enough to cause injury in case of upsetting. Furnished complete with necessary bowden wire fittings.

Size Floor Plate	Width	Height		Either
Inches	Overall	Overall	Weight	Style
	Inches	Inches	Ounces	Each
3x13/4	33/4	53/4	14	\$1.75
Deter la				

Prices do not include Bowden Wire or Casing.

Front Bulkhead Controls

FOR SPARK AND THROTTLE For use with Control Wire and Casing. Fig. 409 Polished Nickel Plated Chromium Bronze Each Plated Each \$3.50 Each \$5.20 Single \$2.50 3.50 Double 4.50 6.30

Spark and Throttle Controls CAST BRONZE



Side Bracket



Fig. 905 Position can be changed by loosening one screw. The toothed arc holds control in desired position. Control rod sockets are tapped for ¹⁴ or ⁴ inch rod.

	are capped			
_		Polished Bronze	Nickel Plated	Chromium Plated
Fig.		Each	Each	Each
904	Complete Single	\$2.50	\$3.25	\$4.00
904	Complete Double	3.75	4.75	5.75
905	Complete Single	3.25	4.00	4.75
905	Complete Double	4.50	5.50	6.50
905	Brackets Only	1.00	1.50	2.00

Improved Throttle Control FOR CONTROL WIRE STRAIGHT PUSH AND PULL—ALL BRASS



Fig. 244

An improved control giving smoother action to control wire, helps eliminate kinks in wire by direct push and pull of handle. All brass except handle which is $1\frac{1}{2}$ inch bakelite knob. Length of pull is $2\frac{1}{2}$ inches.

Polished Each \$2.50	Chromium Plated Each \$4.00	Overall Length Inches 6	Overall Width Inches	Overall Height Inches 25/8	Weight Ounces
34. 30	\$4.00	0	172	478	14

Dashboard Choke Controls

ALL BRASS CONTROL HANDLE



WITH STEEL CASING AND WIRE 7 Ft. 10 Ft. Lengths Lengths Per Set Per Set \$2.20 \$2.50 15 Ft. 5 Ft. Lengths Per Set Lengths Per Set \$3.00 \$2.00 WITH BRASS CASING AND WIRE 7 Ft. 10 Ft. Lengths Lengths Per Set Per Set 15 Ft 5 Ft. Lengths Per Set Lengths Per Set \$4.50 \$2.50 \$2.90 \$3.50 WITH BRONZE CASING AND WIRE 7 Ft. Lengths Per Set 15 Ft. Lengths Per Set \$5.50 10 Ft. Lengths Per Set 5 Ft. Lengths Per Set \$4.20 \$2.85 \$3.40 With nickel plated handle, add \$.25 per set. With chromium plated handle, add \$.60 per set.

Bowden Wire and Casing

A high grade remote control wire, flexible and strong. Casing is ¼ inch outside diameter.

Fig. 353 Steel wire and casing furnished in lengths up to feet each, brass and bronze up to 60 feet each.	10 0
Steel wire with casing	Foot
Brass wire with casing	.20
Phosphor bronze wire with casing	.27



Fig. 692 Control wire and casing can be easily attached. For use on a dash or bulkhead up to 2 inches thick. Polished Nickel Chromium Brass Plated Plated Each Each Each Chromium Plated Each \$1.50 \$1.75 \$2.10

Size of Slot

Inches

1/8×1/4

Lx 1/4

Size of Slot Inches

+€x¾ 1/4×¾

Control Rod Sockets STANDARD TYPE-BRASS

Tapped for Rod Inches Price Each .20 .25 Fig. 328

Control Rod Sockets

HEAVY TYPE-CAST BRONZE



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

Fig. 298

Control Wire Sockets

BRASS



Complete with brass cotter pin and brass set screw. Price Each \$.25

Fig. 679

i fittititit

Price Does Not Include **Control Wire**

Ball joints are very desirable

when installing spark and throttle controls carburetor or choke

.\$.20

Bowden Casing Clamp CAST BRONZE-SWIVEL TYPE



Fig. 352 Will hold control casing firmly while swivel featur allows smooth sliding of control wire in casing at an angle; size base, 21/4x1 inch. Price Each-Plain Bronze ...\$.5

Control Cranks PLAIN CAST BRONZE

Furnished for single or double controls as desired Cranks are solid castings with 90 degree angle. Con trol rod sockets are tapped for 1/4 inch or for inch roc

Upright Type

id to T

1-105

PERKO



Side Type

	SIDE	OR UPRIG	HT TYPE
Rod hes	Single Complete Each \$1.10	Double Complete Each \$1.75	Cranks Only Each \$.35
	1 25	0.05	40



Sounding Leads



Fig. 940

Furnished in all weights up to 50 pounds. \$.2 PRICE PER POUND -----



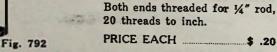
Lead Lines ITALIAN HEMP

Made of the finest Italian hemp an marked every fathom by the latest a proved method.

Length		E
10 fathoms	\$	4
		6
		7
	1	C
JU rathoms	-	

Fig. 597

Prices above do not include lead.



Elbow Ball Joints

BRONZE

control, etc.

Adjustable Ball Joints



BRONZE

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

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

PRICE EACH\$.35

Fig. 793



Diam. Shaft

Inches 3/4 7/8

Dlam. Shaft Inches 3/4 7/8

Ł

I

Diam. Rubber

Inches

11/2

Diam. Roller Inches

11

11/2

Helght

Inches

2 21/4

HARD WOOD ROLLER

Height

Inches

2

21/8

Length Inches

27 28

30

36

Length Inches 27

28 31

Price

\$5.00

6.00

7.00

8.00

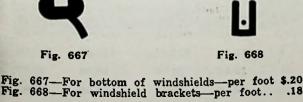
Price

\$3.00

3.50

4.00

Rubber Insulation for Windshields



Air-tone Marine Horns powerful tone of an air whistle chromium plated

Fig. 808

These matched tone electric horns are the most powerful motor driven horns on the market, used and sold only in pairs, they give a volume of sound equal to an air whistle.

Made of noncorrosive metal, heavily chromium plated, motor and vibrator are fully enclosed and watertight.

Furnished complete with push button and marine relay which eliminates all loss of operating current regardless of how far horns are placed from battery.

Largest diameter, 6 inches; length overall, 13% inches.

Price per	pair, 6	volt .		\$27.00
Price per	pair, 12	2 volt	*****	31.00
Price per	pair, 32	2 volt		34.00

Remote Control Relays

FOR SEARCHLIGHTS, HORNS, ETC.



Fig. 105

The installation of a relay in the line from the battery to the unit will make searchlights develop more light, will make fans and other small motors run faster, horns develop more power and it will in many cases make the radio play better.

The lower the voltage of the battery system the more necessary is one of these devices.

Line losses are great when long line runs are made on a six or twelve volt system and a relay can be relied upon to eliminate much of this loss.

Instructions for installing are furnished with each relay.

Each \$1.25	lleight Inches 1 5/8	Width Inches 31/4	Weight Ounces 6

Specify voltage when ordering.

Speed-Way Marine Horns

POLISHED BRASS AND CHROMIUM PLATED

These horns produce a high powered commanding note, the long narrow projectors being responsible for the long distance tone carrying qualities and reducing back pressure of tone to a minimum.

Constructed of brass and other corrosion resisting material.

Furnished complete with marine type relay and push button. Very attractive in appearance.

Junior Single

6-12 AND 32 VOLTS



Fig. 110

Volts	Polished Brass Each	Chromium Plated Each	Length Overall Inches	Width Inches
6	\$10.00	\$12.50	19	41/2
12	12.00	14.50	19	41/z
32	13.50	16.00	19	41/2

Junior Twins and Senior Twins

6-12 AND 32 VOLTS

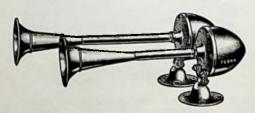
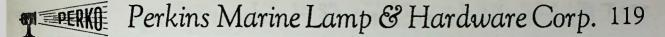


Fig. 111

Туре	Length Overall Inches	Width Each Horn Inches
Junior	19	41/2
Senior	231/2	51/8

Junior			Sei	nior
Volts	Polished Brass Per Pair	Chromium Plated Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
6	\$19.50	\$22.50	\$22.50	\$25.00
12	23.50	26.50	26.50	29.00
32	26.50	29.50	29.50	32.00



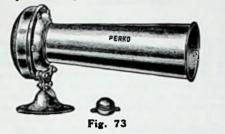
ELECTRIC MARINE HORNS

WATERTIGHT-SPLASH PROOF-6, 12 OR 32 VOLTS

These horns are of the highest quality of materials and are especially designed for marine use. A loud, penetrating tone quality superior to any other horn on the market. The "mile-away" and "clear-way" models were developed especially for the U. S. Navy and Coast Guard requirements and are the only American-made horns that pass these requirements. The tone quality of these horns is governed by the remarkable simplicity of construction and the quality of the diaphragm which is of chrome vanadium spring steel.

Clear-Way Horn

All brass, highly polished or chromium plated, furnished complete with push button and cast deck bracket.

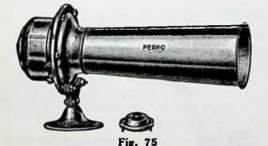


			~G`	Volt-
Length	Height	Diam.	Polished	Chromium
Overall	Overall	Base	Brass	Plated
Inches	Inches	Inches	Each	Each
13	71/4	37/8	\$12.50	\$15.00
• -		/0	00.00	
For 12	volt equi	pment add	\$2.00.	

For 32 volt equipment add \$3.50.

Mile-Away Horn

All brass, highly polished or chromium plated. Fursished complete, with push button and cast deck bracket.



Length Overall Inches 153/4	Height Overall Inches 8½	Diam. Base Inches 3%	Polished Brass Each \$20.00	Volt Chromium Plated Each \$22.50
For 12	volt equip	ment add	\$2.00.	

For 32 volt equipment add \$3.50.

"Perko" Full Tone Whistle

Made of solid brass, nickel plated. Blown by mouth or can be attached to compressed air tank or steam pipe by removing mouthpiece. Standard pipe thread, ½ inch.



	F	ig. 164	
Polished Brass Each	Nickel Plated Fach	Chromium Plated Each	Size Inches
\$2.00	\$2.20	\$3.00	11/8×63/4

Junior Siren

ELECTRIC HIGH SPEED MOTOR

All exposed parts made of brass. Other parts cadmium plated. A powerful and distinctive tone that can be heard under worst atmospheric conditions for a distance of over 1,000 yards. Furnished complete with deck bracket, push button and 10 feet of cable.



Fig. 192

Length	Height	Diam.	Polished	Chromium
Overall	Overall	Base	Brass	Plated
Inches	Inches	Inches	Each	Each
71/2	5 3/4	37/8	\$15.50	\$18.00

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

Senior Siren

ELECTRIC HIGH SPEED MOTOR

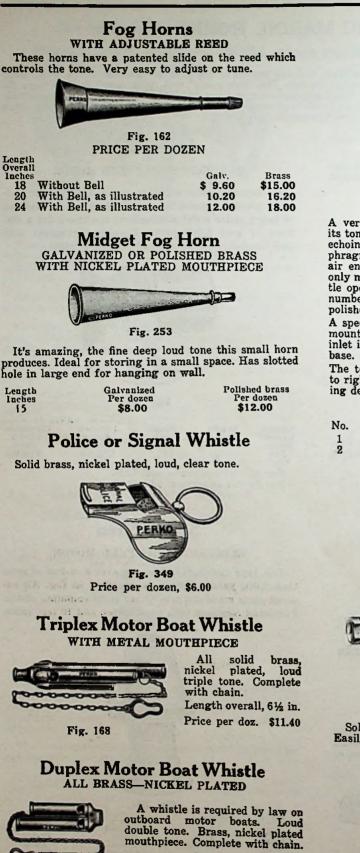
This type distributes its sound over a radius of more than 1,000 yards. Extremely practical in fog. All exposed parts made of brass. Other parts cadmium plated. Furnished complete with push button and 10 foot cable.



Fig. 193

		6 Volt		
Height	DL	Polished	Chromium	
Overall Inches	Diam. Inches	Brass Each	Plated Each	
111/2	67/8	\$15.00	\$17.50	
Then 10 m	lt aquinment	- 11 69 00		

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



Length overall, 3½ inches

Fig. 167

Price per dozen

\$9.00

Air Whistles



Fig. 825

A very powerful whistle operated by compressed air, its tone is clear cut and sharply defined, has remarkable echoing and fog penetrating qualities. Contains a diaphragm of non-corrosive metal which vibrates when the air enters into the pipe. Nothing to wear out as the only mobile part is the diaphragm. The number 1 whistle operates on a minimum of 10 lbs. pressure and the number 2 on 20 lbs. pressure. The sound projector is polished, and the balance is finished bronze.

A special feature of this whistle is the bronze base for mounting, which contains the pipe connection and air inlet in its vertical post, through the under part of the base.

The tone is easily regulated by turning the projector to right or left, a brass key is furnished for the fastening device which holds projector in position.

No. 1 2	Price Each \$10.00 17.50	Diameter of Disc Inches 3	Diameter Base Inches	Length Overall Inches 5%	For Size Pipe Inches
Z	17.50	4	31/2	8¾	78

Whistle Valves FOR AIR WHISTLES CAST BRONZE-PLAIN



A very fine fool-proof air whistle valve made of cast bronze with stainless steel valve spring.

Guaranteed for air pressure up to 200 lbs.

Pipe Size Inches 3/8

Each \$3.50

Fig. 463

Two Tone Signal Horns

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





31.00

28.00

32

Diam. Inches 8 10

26.75

6

8

Wall

6 8

tu sc

PERKO

Reg	ular Do	eck Pla	ates	
		CAST	BRON	ŻE
Crista Lon MICC		Complete	with ke	y.
Fig. 526				
Polished Finish Complete Each	Chromium Plated Complete Each \$ 1 30	Polished Covers Only Each \$.40	Keys Only Each \$.10	Diameter Plate Inches 21/2
.90 1.25 1.75	1.40 1.80 2.35	.45 .65 .90	.15 .20 .20	3 10 3 5/8 4 1/2
2.25 2.60 2.75	3.30 3.50	1.30 1.40	.30 .35	4 ⁷ / ₈ 5 ¹ / ₂ 5 ³ / ₄
4.00 4.25 5.50 10.50	4.80 5.25 6.75 12.50	2.00 2.15 2.75 5.25	.40 .50 .75 1.00	6 3/8 7 11 8 1/4 1 0 1/4
	Fig. 526 Polished Finish Complete Each S .80 .90 1.25 1.75 2.25 2.60 2.75 2.60 2.75 4.00 4.25 5.50	Fig. 526 Polished Finish Complete Each Chromium Piated Complete Each \$.80 \$ 1.30 .90 1.40 1.25 1.80 1.75 2.35 2.25 2.90 2.60 3.30 2.75 3.50 4.00 4.80 4.25 5.25 5.50 6.75	Fig. 526 Chromium Piated Complete Polished Complete 8 .80 \$ 1.30 \$.40 90 1.40 .45 1.25 1.80 .65 1.75 2.35 .90 2.25 2.90 1.15 2.60 3.30 1.30 2.75 3.50 1.40 4.00 4.80 2.00 4.25 5.25 2.15 5.50 6.75 2.75	Polished Finish Chromium Plated Complete Polished Covers Keys Only Each Each Covers Keys Only Each Each Each Each \$.80 \$ 1.30 \$.40 \$.10 .90 1.40 .45 .15 1.25 1.80 .65 .20 1.75 2.35 .90 .20 2.25 2.90 1.15 .25 2.60 3.30 1.30 .30 2.75 3.50 1.40 .35 4.00 4.80 2.00 .40 4.25 5.25 2.15 .50 5.50 6.75 2.75 .75

Pipe Deck Plates

CAST BRONZE

Standard iron pipe size thread. Complete with key. Can be furnished with words "water," "gas," "oil," "fuel," cast in cover, on all sizes up to 2½ inch inclusive.

	M. 010				
Diam. Opening Inches 3/4 1 11/4	Polished Finish Complete Each \$ 1.00 1.25 1.50	Chromium Plated Complete Each \$ 1.50 1.80 2.10	Polished Covers Only Each \$.50 .65 .75	Keys Only Each \$.10 .10 .15	O. D. Plate Inches 25/8 27/8 3 3
11/2	1.75	2.40	.90	.15	33/4
2	2.00	2.70	1.00	.20	41/4
21/2	2.50	3.25	1.25	.20	45/8
21/2 3	3.75	4.75	1.90	.25	53%
31/2	6.50	7.75	3.50	.35	6
4	9.00	10.25	4.50	.35	63/4
5	11.00	13.00	6.00	.50	8
6	14.00	17.00	8.00	.80	9

Fig. 528

Fig. 527

Ventilator Deck Plates

POLISHED

CAST BRONZE

Complete with key and extra ring for hood ventilator.

Diameter Opening Inches 2	Polished Each \$ 2.00	Chromium Plated Each \$ 2.80	Diameter Plate Inches 35/8	Weight Each 12 oz.
21/2 3	2.50 3.10	3.35 3.75	41/2 47/8	1 lb. 11/4 lbs.
31/2	3.60 4.00	4.30 4.75	51/2 53/	1 3/4 lbs. 21/4 lbs.
41/2	5.50 6.00	6.30 7.25	63/8	31/4 lbs.
6	7.50 15.00	8.90 17.50	81/4 101/4	$3\frac{3}{4}$ lbs. $4\frac{1}{2}$ lbs.
		11.00	1074	$7\frac{1}{2}$ lbs.

When used w irned in any p crews for faster	osition des	ventilator, allows ired. Complete wit	it to be h thum
œ	C	y	
•	No.		
	Fig	. 419	
Nor Size Open- Venti- ing in lator Base	Price	For Size Open- Venti- ing in lator Base	Price

Swivel Rings FOR VENTILATORS—CAST BRONZE

E OT 1315	e Open-		1 101 1312/0	Open.	
Venti-	ing in		Venti-	ingin	
lator	Base	Price	lator	Base	Price
Inches	Inches	Each	Inches	Inches	Each
3	2 16	\$ 4.00	8	7	\$12.00
4	31/2	6.00	9	81/8	14.00
5	4	7.50	10	91/8	20.00
6	5	9.00	11	101/8	22.00
7	6	10.00	12	111/4	24.00
					1 11 07 0

Price does not include cap, if cap is desired add 25% to above prices.

Chromium plated swivel rings, add 40% to above.

Manhole Plates WATERTIGHT GALVANIZED IRON AND CAST BRONZE



Fig. 662

Furnished complete with locking screws, key and rubber packing ring. Absolutely watertight.

~· `	Com	plete		Grating	Diam.
Size No.	Galv. Each	Brass Each	Galv. Each	Brass Each	Opening Inches
0	\$11.00		\$10.00		9
1	13.00	\$26.00	11.00	\$20.00	10
2	17.00	30.00	13.00	23.00	12
3	21.00	37.00	16.00	28.00	14
4	26.00	45.00	20.00	34.00	16
5	30.00	58.00	23.00	45.00	18
6	34.00	78.00	26.00	60.00	20

Deck Plate Key CAST BRONZE ADJUSTABLE TO ALL SIZES OF DECK PLATES



Fig. 826

Will fit all sizes of deck plates up to 10 inch diameter, making it unnecessary to have separate keys for each plate. Price each _______\$1.25

Perkins Marine Lamp & Hardware Corp. 123 ON SPERIAL

Rope Deck Pipes GALVANIZED CAST IRON AND CAST BRONZE

FOR MANILA ROPE



Fig. 741

		BRON	VZE		
For Diam. Rope Inches 3/4 & 1 1 1/4	Plain Bronze Each \$4.00 5.00	Polished Bronze Each \$4.80 5.80	Chrom. Plated Each \$5.80 6.80	Inside Diam. Inches 3/4 2 1/8	Diam. Flange Inches 3 5/8 4 3/4
		GALVA	NIZED		
For diam. Rope Inches 3/4 and 1 1 1/4	Pri Ea \$1. 2.	ce l ch l	inside Diam. nches 2 2 ¹ / ₂	Diam. Flange Inches 4 3/8 4 5/8	Height Above Deck Inches 17/8 2

Chain Deck Pipes GALVANIZED CAST IRON AND BRONZE



Fig.	341

Yacht Chain Deck Pipes GALVANIZED CAST IRON AND BRONZE



		F	ig. 342		For		
Size No. 1 2 3	Galv. Each \$3.20 3.80 5.75	Pollsbed Bronze Each \$5.00 6.00 10.00	Nickel Plated Each \$6.00 7.00 11.00	Chrom. Plated Each \$7.00 8.00 13.00	Chain Diam. Inches ¹ ³ / ₈ ¹ / ₂	Diam. Flange Inches 31/2 41/4 5	

CAST BRONZE-POLISHED 200

Military Mast Sets

Fig. 586

Furnished in two sizes, a handsome and practical set of fittings, mast cap has small bronze sheave for flag halyards.

Set No. 1 2	Insic Dian Deck Fla Inche 2 3/4 3 1/2	n. Cros Inge Bra s Inc	s Arm cket Ey ches 1 1/2	In×ide Diam. ye Band inches 2 1 2 3 4	Inside Diam. Mast Car Inches 17/8 21/4	Inside Diam. End Fittings Inches 1 1/4 1 1/2
Set No. 1 2	Per Set Complete \$ 7.50 10.00	Deck Flange Each \$1.50 2.00	Cross Arn Bracket Each \$2.00 2.50	Eye Band Each \$1.50 2.00		nd Fittings for Cross Arm Each \$.75 1.25

Chromium Plated Finish, add 40% to above prices.

Hinged Mast Steps

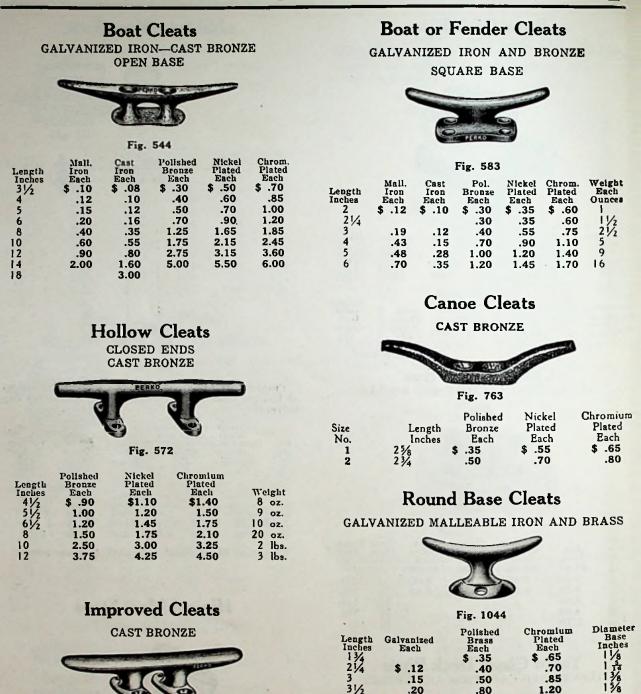
CAST BRONZE



Fig. 1039

Mast can be lowered to horizontal position parallel with deck, base has integral lug which prevents side strain on hinge.

Inside Diam. Step Inches 2 21/2	Polished Bronze Each \$3.15 3.75 6.90	Nickel Plated Each \$3.65 4.25 7.40	Chrom. Plated Each \$5.15 5.75	Diam. Base Inches 4 41/2	Height Inside Step Inches 2 ¹ / ₂ 3
2	0.90	7.40	8.90	2	31/2





A definite improvement in cleats long needed.

The large rounded bottoms, legs and ends save wear on the rope but allow more turns of rope.

These are of much sturdier construction and of heavier weight than other types. Take larger fastenings and greater strain.

Length Inches 4 5 6 8	Polished Bronze Each \$.85 1.15 1.35 2.00	Nickel Plated Each \$1.05 1.35 1.60 2.25	Chromium Plated Each \$1.35 1.65 1.85 2.60	For Rope Inches 1/4 3/8 1/7 1/7	Weight Pounds 1/2 3/4 1 1 3/4	
--------------------------------------	--	--	--	---	--	--

Flag Pole Cleats

.40

.50

.80

.65

.70

.85

1.20

\$

PERKO

CAST BRONZE

\$.35

\$.12

.15

.20

3

31/2



For attaching to side of bow or stern flag pole. A neat little fitting that has long been desired.

Length Overall Inches	Pollshed Bronze Each \$.35	Nickel Plated Each S.45	Chromium Plated Each \$.65	Size Base Inches 5/8 x 3/4
. /4	4.00		φ.05	10



Length Inches 41/2

Length Inches 8 10 12	Galv. Each \$.80 1.20 2.00	Size of Base Inches 4 1/4 x2 $\frac{3}{14}$ 4 3/4 x2 1/2 6 7/8 x3	1000000000000000000000000000000000000	Weight Each Pounds 3 53/4 10
15 18 24	3.00 4.00 6.50	71/4x31/2 71/2x4 81/2x43/8	3/4 3/4 7/8	14 201⁄4 35
30 36	12.50 20.00	$\frac{10\frac{3}{4}x5\frac{1}{2}}{13}x7\frac{1}{4}$	14	73 117

Closed Straight Chocks

GALVANIZED CAST IRON AND CAST BRONZE



Fig. 163										
Length Inches	Galv. Each	Polished Bronze Each	Nickel Plated Each	Chrom. Plated Each	Weight Each Pounds					
4	\$.22	\$1.00	\$1.25	\$1.50	18					
6 8	.55 1.35	1.60 2.25	1.85 2.75	2.20 3.00	11/2 35/8					
10 12	1.60 2.30	3.75	4.25	4.75	63/4 9					
15 18	4.10 6.50				16 28					

Beveled Bow Chocks

GALVANIZED AND CAST BRONZE

0	Fig. 546	Length Overall Inches 3 4 5 6 8 8 10 12 15 18	Width Inches 3/4 3/4 1/8 1 3/4 2 1/2 3 3 1/4	For Diam. Rope Inches 1/2 5%-3/4 7/8 1 1/4 1/4 1/4 2 2/4
Length Inches 3 4 5 6 8 10 12 15 18	Galv. Iron Per Pair \$.35 .40 .50 1.00 1.60 2.40 5.00 10.00 15.00	Polished Bronze Per Pair \$ 1.30 1.50 2.00 3.00 4.00 7.00 11.50	Nickel Plated Per Pair \$ 1.70 1.90 2.40 3.40 4.50 7.75 12.50	Chromium Plated Per Pair \$ 2.00 2.40 3.10 4.20 5.30 8.50 14.00

Straight Stern Chocks

GALVANIZED AND CAST BRONZE

Fi	g. 119	Length Inches 4 5 6 8 10 12 15 15	Width Inches 1 1/8 1 1/2 1 3/6 2 1/4 2 5/6 2 1/4 2 5/6 3 3/4	For Diam. Rope Inches 3/4 7/8 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 2
Length Inches 4 5 6 8 10 12 15 18	Galv. Iron Each 30 .50 1.00 1.20 2.50 5.50 7.50	Polished Bronze Fach 5.75 1.00 1.50 2.25 3.75 6.00	Nickel Plated Each 1.00 1.25 1.75 2.75 4.25 6.50	Chrom. Plated Each 1.20 1.55 2.10 2.90 4.50 7.25

Mooring Chocks CAST BRONZE—POLISHED

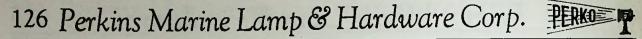


Fig. 413

Length Overal Inches 45/8

Each \$2.25 Width Overall Inches

Opening Weight Inches Pounds 2x2 3/4



Skene Bulwark Bow Chocks CAST BRONZE	Skene Bow Chocks CAST BRONZE				
	Ø	Ì	90	G	
			Fig. 160		-
	Size No. 1	Length Inches 4 ¹ / ₂	Width Inches 7/8	Opening Inches 3/4	Weight Per Pair Pounds 3/4
Fig. 751 For	3 4 5	73/4 81/2 101/2	1 1/2 1 5/8 2	11/4	3 3/4 5 8
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Size No. 1 2 3 4	Pollshed Bronze Per Pair \$2.00 3.00 5.00 7.00	Pla Per \$	ckel ated Pair 2.40 3.50 5.50 7.75	Chromlum Plated Per Pair \$3.00 4.00 6.25 8.50
	5	10.50		1.50	12.50

Skene Bulwark Stern Chocks

CAST BRONZE



F:	g.	7	5	2
	8 ·		5	-

Lgth. In. 6	Plain Pol. Bronze Bronze Each Each \$3.00 \$4.00	Each	For Diam. Rope Up to Inches 1 1/4	Thick- ness of Rail Inches 11/2	Inches	Wt. Each Lbs. 2	
-------------------	---	------	--	---	--------	--------------------------	--

Bulwark Bow Chocks CAST BRONZE-POLISHED



Fig. 768

This pair of chocks is beveled to fit bow angles. The openings are sufficiently large for mooring ropes. Designed to be bolted both through the bulwark and the deck.

No. 1	Polished Bronze Per Pair \$ 7.50	Chromlum Plated Per Pair \$ 9.50	Length Inches 10	Width Overall Inches	Height Inches 17/8	Size of Rope Inches	
2	9.00	12.00	111/4	114	21%	14	
3	12.00	15.00	111/4	11/2	21/2	1/2	

Skene Stern Chocks

CAST BRONZE



Fig. 161

Length Inches 4 51/2 7 9	Width Inches 138 134 214	Opening Inches ½8 1 1½ 2	Hach Pounds 1/2 1 2 4
Polished Bronze Each	P	lated Each	Chromium Plated Each \$1.40
	\$		2.00
			3.65
6.50		7.00	7.50
	Inches 4 51/2 7 9 Polished Bronze	Inches Inches 4 76 51/2 136 7 134 9 214 Polished N Bronze P Each 1 \$.90 \$ 1.50 3.00	Inches Inches Inches Inches 4 76 56 51/2 13/6 1 7 13/4 11/2 9 21/4 2 Pollshed Nickel Bronze Plated Each Each 5.90 \$1.15 1.50 1.75 3.00 3.50

Walaht

Bulwark Stern Chocks

CAST BRONZE-POLISHED



Fig. 769

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	to. 1 2	Size of Rope Inches 1 1/2 1 3/4	
--	---------------	---	--

PERKO

Perkins Marine Lamp & Hardware Corp. 127

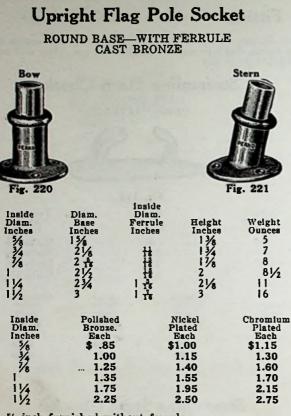
Streamline Fittings

Are made of the highest grade of bronze castings. These fittings all follow the same design and will match all other "Perko" streamline items on the deck, such as running lights, flagpole sockets, ventilators, etc. They will add to the appearance of any boat and are good, strong, practical fittings in use.

to the appe	earance of any b	oat and are	good, strong, pract	ical fittings in u	1se.		
		ne Cleat		Str	camline S CAST B OPEN PA	RONZE	ock
	PLAND	6			R	PERMO	
		114			a second s		
Length Overall Inches 2½	Siz Bas Inch	e es	For Rope Diameter Inches Up to ½	Length Overall	Fig. Widt Bas	116	For Rope Diameter
3½ 4½ 5½	1 ¼ x 1 ½ x 1 ½ x	2 % 3 %	Up to % Up to % Up to 1	Inches 3 4	Inch 4 1		Inches Up to ½ Up to ½
Length	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	5 6	1%		Up to ¾ Up to 1%
2 /2 3 /2 4 /2 5 /2	\$.50 .80 1.10	\$.75 1.05 1.35	\$.90 1.25 1.60	Length Inches 3	Polished Bronze Each \$.65	Nickel Plated Each \$.85	Chromium Plated Each \$1.00
51/2	1.50	1.75	2.10	4 5 6	.75 1.10 1.40	.95 1.30 1.80	1.15 1.60 1.90
S	treamline l		ocks				
		BRONZE ATTERN					
	R	B	9	50		PATTERN	JCKS
	Fig	115			Fig.	118	
Length Overall Inches 3½ 4½ 5½ 6½	Widti Base Inche 34 1 1 1 34 1 34	ь ;	For Rope Diameter Inches Up to ½ Up to ½ Up to ½ Up to % Up to 1	Length Overail Inches 3 4 5 6	Wid Bay Inch 34 1 1 1 5 1 36 1 36 1 36	3e 65	For Rope Diameter Inches Up to 5% Up to 1% Up to 1 Up to 1%
Length Inches 31/2 41/2 51/2 61/2	Polished Bronze Per Pair \$1.30 1.50 2.20 2.80	Nickel Plated I'er Pair \$1.60 1.80 2.50 3.10	Chromium Plated Per Fair \$2.00 2.30 3.20 3.80	Length Inches 3 4 5 6	Polished Bronze Each \$.75 1.00 1.40 1.75	Nickel Plated Each \$1.00 1.25 1.65 2.15	Chromium Plated Each \$1.15 1.40 1.95 2.35
		S	Streamline I		ks		
				Widt	h	Fe	P Rone

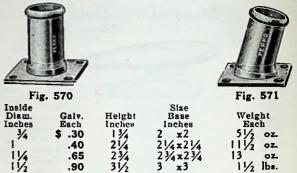
1 m	Length Overall Inches 3½ 4½ 5½ 6½	Width Base Inches 34 1 1 ½ 1 ½ 1 ½		For Rope Diameter Inches Up to 5% Up to 3% Up to 1 Up to 1 1%
Fig. 117	Length Inches 31/2 41/2 51/2 61/2	Poilshed Brozze Per Pair \$1.50 2.00 2.80 3.50	Nickel Plated Per Pair \$1.90 2.40 3.30 4.00	Chromium Plated Per Pair \$2.30 2.90 3.90 4.70





Upright Flag Pole Socket

SQUARE BASE—NO FERRULE GALVANIZED CAST IRON Boy Stern



Utility Flag Pole Socket

CAST BRONZE

Oval flange takes up very little space on deck. Furnished with set screw for tightening up on flag pole.



Flange 21/8=21/4

Depth Socket Inches

Weight Ounces 10

Pollshed Bronze Each \$1.30

Inside

Diameter Inches

11/4

Nickel Plated Each \$1.55 21/8

Chromlum Plated Each \$1.80

Runabout Flag Pole Socket

CAST BRONZE

Unique design of flange makes this a good looking deck fitting. Complete with set screw for holding pole fast in place.



Fig. 541

Nickel Plated Each

\$1.75

Weight Ounces 12

Depth Socket Inches 21/2

Chromiun Plated Each \$2.00

% inch furnished without ferrule.

Flush Flag Pole Socket WITH FERRULE GALVANIZED CAST IRON—CAST BRONZE Stern Bow

Inside Diam.

Ferrule Inches

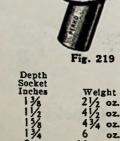




11/

Diam. Flange Inches Inside Diam Jiam. Inches 11/4 2

21/2 23/2 25/2



10

07

11/2	31/8	1 18	23/8	l lb.
Inside Diam.	Galv.	Pollshed Bronze	Nickel Plated	Chromiun Plated
Inches	Each	Each	Each	Each
/8		\$.70	\$.85	\$1.00
24	\$.25	.75	.90	1.05
1/8		.85	1.00	1.20
	.30	.90	1.05	1.25
11/4	.35	1.25	1.45	1.65
1/2	.60	1.75	2.00	2.25

% inch furnished without ferrule. Galvanized furnished without ferrule.

Inside Diameter Inches 11/4

Pollshed Bronze Each \$1.50

Size

Flange Inches 31/2=31/2

Streamline Flag Pole Socket

CAST BRONZE Designed for the better class of runabouts. These sockets will match all other "Perko" streamline deck fittings.



Fig. 222 Diam. Size Depth Socket Inches Flange Socket Inches Weight Lbs. 114 114 2% x 5 $2\frac{1}{2}$ Polished Nickel Plated Each Chromlum Bronze Plated Each Each \$2.25 \$3.25 \$2.75

Transom Flag Pole Socket

CAST BRONZE

Designed for outboard motor boats or runabouts that have no decking in stern for regular type of socket.



Inches

31%

Nickel Plated Each

\$1.25

Diam.

Socket Inches

3/4

Pollshed Bronze Each

\$1.00

Length Base Inches 3¾

Polished Bronze Each

\$1.75

Depth Socket Inches

134

	Width Base Inches 1½

Weight Oz. 8 Chromium Plated Each

\$1.60

No.

1

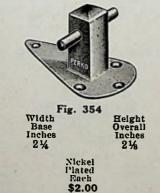
2

3 4

Streamline Mooring Bitt

CAST BRONZE

A very fine looking yet practical mooring bitt for the better class of outboard motor boats and runabouts. Streamlined base gives racy appearance and matches other streamline fittings on the boat.



Comb. Bitt and Rope Deck Pipe

CAST BRONZE





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 \$4.50	Nickel C Plated Each \$5.00	hromium Plated Each \$5.75	Size Base Inches 41/2x41/2	Height Inches 31/3	For Diam. Rope Inches 3/4	
1	\$4.5U	\$0.UU	\$0.70	472×472	272		
2	7.75	8.25	9.25	6 x6	5	1	

Mooring Bitt CAST BRONZE

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



Fig. 608

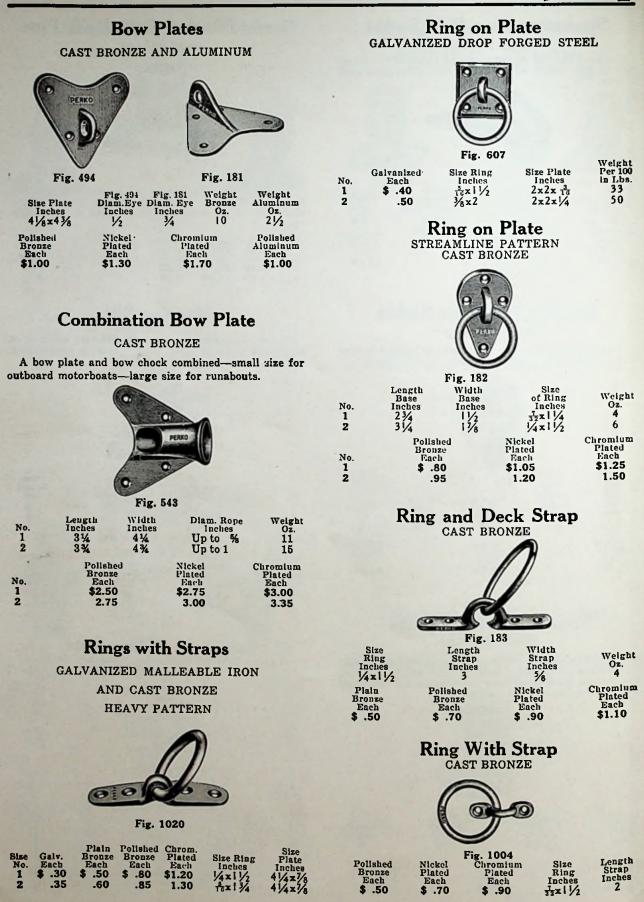
Size Base	Helght	Weight
Inches	Inches	Lbs.
3 x 3	2½	7%
4 ½ x 4 ½	3½	1%
6 x 6	5	5%
7 x 7	6½	12
Polished	Nickel	Chromlum
Bronze	Plated	Plated
Each	Each	Each
\$ 2.25	\$ 2.75	\$ 3.25
4.00	4.50	5.25
8.00	8.50	9.50
11,50	13.50	13.25

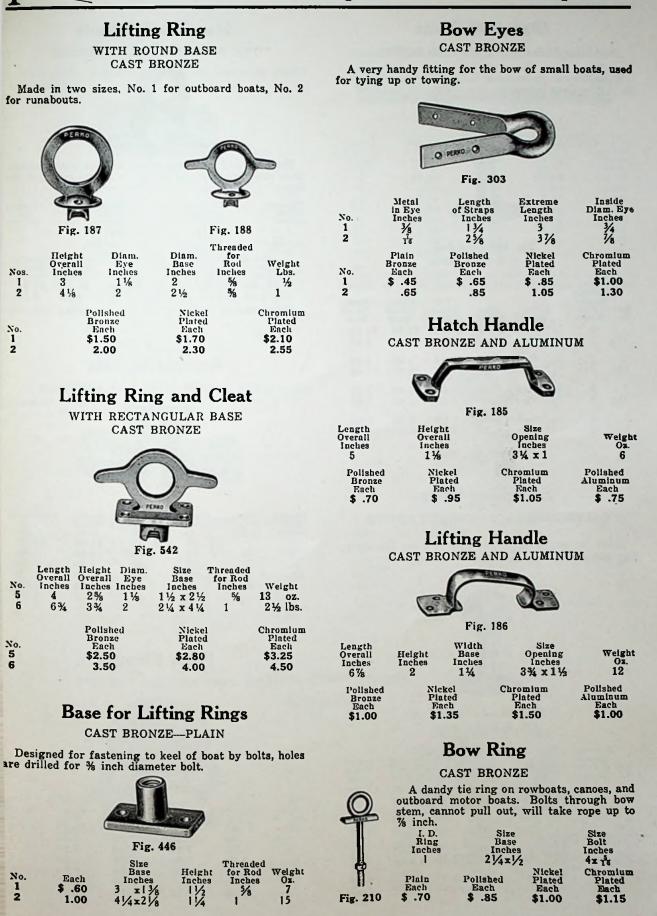
Nat

Improved Riding Bitts GALVANIZED CAST IRON AND POLISHED



					r1g. 92	0		
ight erall ches	Weight Ounces 8	Size No. 00 0	Galv. Each \$1.20 1.80 2.40	Pol. Bronze Each \$3.10 4.50 6.00	Chrom. Plated Each \$4.35 6.00 7.80	Height Inches 31/2 41/2 53/4	Size Bore Base Bolt I Inches Inch $2\frac{1}{2}x2\frac{1}{2}$ 3x3 $3\frac{1}{2}x3\frac{1}{2}$	Diam. hes
	Chromlum	01	3.70	9.00	11.00	7 4	$\frac{3\frac{1}{2}x3\frac{1}{2}}{4\frac{1}{2}x6}$	8
	Plated	11/2	6.75	12.50	15.00	81/2		1/R
	Each	2	9.25	17.50	20.00	10	51/2×81/2 3	8





Stanchion Posts

GALVANIZED CAST IRON AND BRONZE

Made for end or center of rail. Please specify by Fig. No. below when ordering.



Fig. 614-For End Fig. 615-For Center

Tise o	xtreme Height f Post Inches		ored	Galv. Each	Pol. Bronze Each	Nickel Plated Each	Chrom. Plated Each
I	2	5/8"	Rod	\$.40	\$.70	\$1.00	\$1.20
1½	2	1/4"	Pipe	.40	.70	1.00	1.20
2	21/2	5⁄8″	Rod	.50	.85	1.20	1.40
21⁄2	21/2	1⁄4″	Pipe	.50	.85	1.20	1.40
3	3	5/8"	Rod	.60	1.00	1.40	1.60
31⁄2	3	3/8"	Pipe	.60	1.00	1.40	1.60
.5	4	3⁄4"	Rod	.75	1.75	2.20	2.40
51/2	4	1⁄2"	Pipe	.75	1.75	2.20	2.40

Hand Rail Sockets

FOR WOOD RAIL-CAST BRONZE



Made for end or center of rail of high grade bronze. Base can very easily be shaped to fit the crown of the deck.

For Rail Diam. Inches 1 11/4	Extrem Height Inches 1 3/4 2		Size o Base Inche 5/8 x 3 3/4 x 3	s /2	Weight Each Ounces 5 9
-Pol. Br Center Each 1 \$.85 1 1/4 1.00 Please sno	End Each \$1.00 1.25	-Nickel Center Each \$1.25 1.40	Plated End Each \$1.40 1.65	Center Each \$1.50 1.65	End Each \$1.75 2.00

Please specify center or end and size when ord

Awning Sockets

CAST BRONZE-FOR ROD AND PIPE



		F	ig. 247		
Diam. Rod Inches	For Pipe Inches	Plain Bronze Each \$.50	Polished Bronze Each \$.75	Nickel Plated Each \$1.05	Chromium Plated Each \$1.30
5/8	3/8	.55	.80	1.10	1.40
12/0/1	1/2	.60	.90	1.30	1.50
1/8		.65	.95	1.35	1.55
1	3/4	.70	1.15	1.65	1.90
	117	1.25	1.75	2.25	2.50

Stanchion Posts

GALVANIZED CAST IRON AND BRONZE

Made for corner of rail or bow of boat. Specify by Fig. No. below when ordering.



Fig. 616-For Corner Fig. 617-For Bow

Bise of	treme Height f Post Inches		ored For	Galv. Each	Pol. Bronze Each	Nickel Plated Each	Chrom. Plated Each	
1	2	5/8" 1/4"	Rod	\$.40	\$.70	\$1.00	\$1.20	
11/2	2		Pipe	.40	.70	1.00	1.20	
2	21/2	5/8" 1/4"	Rod	.50	.85	1.20	1.40	
21/2	21/2		Pipe	.50	.85	1.20	1.40	
3	3	5/8" 3/8"	Rod	.60	1.00	1.40	1.60	
31/2	,		Pipe	.60	1.00	1.40	1.60	
5 51/2	4	¥4" V2"	Rod	.75	1.75	2.20	2.40	
372	4	1/2	Pipe	.75	1.75	2.20	2.40	

Floor Flanges

CAST BRONZE-FOR PIPE



Pipe Size Inches	Plain Bronze Each \$.55	Polished Bronze Each \$.85	Nickel Plated Each \$1.15	Chromlum Plated Each \$1.35	O. D. Flange Inches 21/4
17	.60	.90	1.20	1.40	21/2
3/4	.75	1.10	1.40	1.60	3
1	1.00	1.30	1.70	1.90	31/4
11/4	1.25	1.60	2.00	2.20	33/4
11/2	1.50	1.90	2.40	2.70	4
2	2.20	2.70	3.20	3.50	45/8



CAST BRONZE

Made to fit standard hand rail on high class yachts and cruisers.



Fig. 122

No

1

2

No

1 2

No.

1

2

No.

2

	0.		
0	Size Rail	Length	Weight
	Inches	Inches	Lbs.
	1½ x 2½	5	1%
	1% x 3	35%s	1%
	Polished	Nickel	Chromium
	Bronze	Plated	Plated
	Each	Each	Each
	\$4.00	\$4.50	\$5.00
	4.25	4.75	5.25

Flush Rail Lock

CAST BRONZE

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





Length Inches

3%

5

Nickel Plated

Per Set

\$4.75

5.00

Size Rail Inches

11/2 x 21/2

1% x 3

Polished

Bronze Per Set

\$4.25

4.50

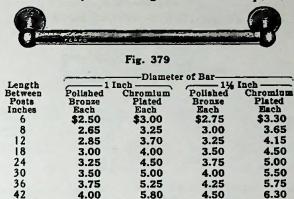
•	Weight Lbs.
	1%
Chr	omium lated

\$5.25

5.50

Grab Rails

Made of heavy brass tubing with cast bronze posts.



Can be furnished with middle post and in special lengths or nickel plated if desired. Price on application.

Grab Rail Posts

CAST BRONZE_HOLLOW



Height

Overal Inches 33/8

Fig. 380 Dlam. Hole Inches I or 1 1/8	Weight Per Pair Pounds 1 ½
Nickel	Chromium
Plated	Plated
Each	Each
\$1.50	\$1.85

Furnished for center mounting when desired, please specify.

Letters and Figures

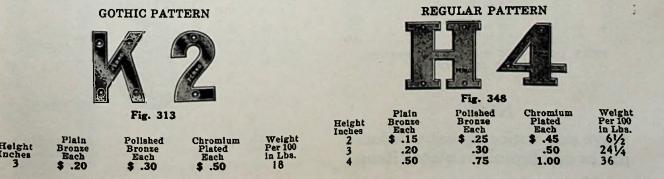
Diam. Base Inches

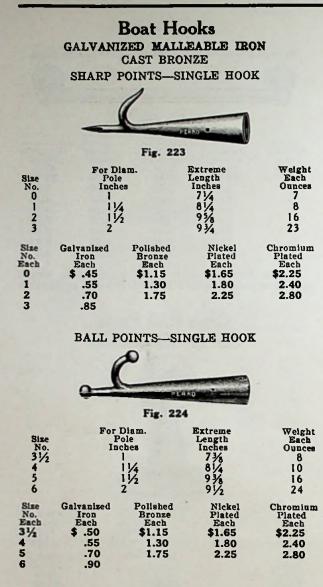
21/2

Polished Bronze Each

\$1.25

CAST BRONZE





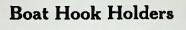
Boat Hook Poles

PERKO Fig. 928 Diameter Inches Lengths Price er Foot Feet 6 to 8 .10 6 to 8 .12 6 to 10 .15 8 to 12 .16 PRICE DOES NOT INCLUDE ATTACHING

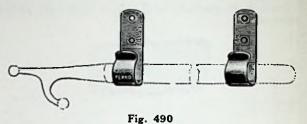
HOOKS TO POLES

NOTE

Have you noticed greatly reduced prices on chromium plated items?



SPRING BRASS



Boat owners have been in need of a simple gadget like this for years, yet this is the first time boat hook holders have been put on the market.

Made of spring brass they will accommodate poles up to 1½ inch in diameter, and hold them firmly in place.

Pollshed Chromi Brass Plate Each Each \$.45 \$.6	d Length i Inches	Width Inches I	Weight Ounces 1/2
---	----------------------	----------------------	---------------------------

Ring Buoy Holders

CAST BRONZE



A substantial bronze hook or holder for all sizes of ring buoys. Especially designed for carrying ring buoys on outside of deck house or superstructure. The natural spring tension of the hook holds the buoy

The natural spring tension of the hook holds the buoy fast but ready for instant use.

Polished Bronze Each \$1.20	Nickel Plated Each \$1.40	Chromium Plated Each \$1.60	Width Mount- Ing Plate Inches 3	Height Overall Inches 4 ¹ / ₂	Weight Each Pounds 1/2
--------------------------------------	------------------------------------	--------------------------------------	--	--	---------------------------------



Nickel Plated Each \$.55

Polished

Bronze Each

.40

\$

Chromium Plated Each \$.70 Length Width Overall Overall Inches Inches 13/4 11/4



Rope Swimming Ladders WITH ROUND WOOD RUNGS

Made of 5% inch best grade manila rope with hardwood rungs in mahogany finish. Rungs are 11/4 x 14 inches and spaced 12 inches apart.

Furnished complete with lanyards 6 feet long for fastening on board and thimbles with light lanyard on lower end for tying down.

L	adders	Each
2	rung	\$3.00
	rung	3.50
4	rung	4.00
5	rung	4.50
6	rung	5.00

Fig. 991

Additional rungs add \$.80 each.

Rope Swimming Ladders



WITH FLAT WOOD STEPS CUT OUT FOR TOES AND HAND HOLD.

Steps are ¾ x 3¾ x 20 inches and spaced 12 inches apart.

Made of % inch best grade manila rope with ash steps, varnished.

Furnished complete with lan-yards 6 feet long for fastening on board.

Each
\$4.00
5.00
6.00
7.00
8.00

Additional steps add \$1.30 each.

Fig. 992

Rope Boarding Ladders WITH OVAL SIDES AND DOUBLE RUNGS



Each rung is 1% x 14 inches and steps are spaced 12 inches apart.

The finest boarding ladder on the market. Made of first grade % manila rope. Selected ash sides and steps, varnished.

Furnished complete with lan-yards 6 feet long for fastening on board, and thimbles with light lanyard on lower end for tying down.

Ladders	Each
2 step	\$ 7.50
3 step	10.00
4 step	12.50
5 step	15.00
6 step	17.50

Additional steps add \$2.50 each.



A set consists of four pieces illustrated

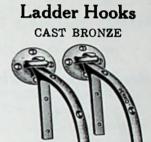


Fig. 670

L	Extreme Length Inches	Length Brace Inches	Size Plate Inches	Weight Per Set Pounds
	12	4	21⁄2x3 3⁄8	4
Pol. Bronze Per Set	-Complete Nickel Plated Per Set \$9,50	Chrom. Plated Per Set \$10.50	Pol. Bronze	Plates Only Nickel Chrom. Plated Plated Per Pair Per Pair \$2.25 \$2.75

Ladder Hooks

CAST BRONZE WITH FLUSH PLATES FOR DECK

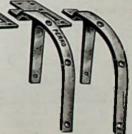


Fig. 994 Length Brace Size of Plate Inches Inches 33/4 31/4=2

Extreme

Length Inches

10

Weight
Weight Per Set
Pounds
- 4

Pol. Bronze Per Set \$8.50	-Complete Nickel Plated Per Set \$9.50	Chrom. Plated Per Set \$10.50	Pol. Bronze	Plates Onl Nickel Plated Per Pair \$1.90	Chrom. Plated

Fig. 993

5

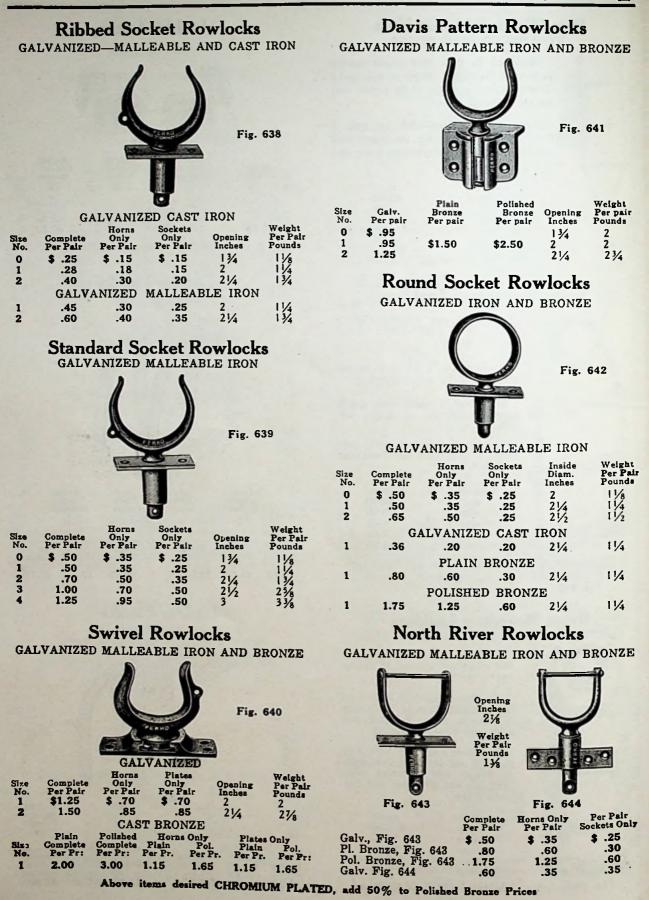




Fig. 646

Size	Complete O	orns Socket	ing	Weight Per Pair
No.	Per Pair Per	Pair Per Pa	tr Inches	Pounds
1 Galv.	\$.70 \$.35 \$.45	5 2	11/2
0 Pl. Bronze	1.60	.80 .90) 13/4	11/2
1 Pl. Bronze	1.60	.80 .90	2	11/4
0 Pol. Bronze	2.75	1.20 1.65	5 134	11/4
1 Pol. Bronze	2.75	1.20 1.6	5 2	11/2
With Chain	for Galv.		above	prices.
With Chain				

Boston Socket Rowlocks

n

GALVANIZED MALLEABLE IRON AND BRONZE

D

With Chain and Without Chain)	Fig. 54	5
Size	Complete	Horns Only	Sockets Only	Open- ing	Weight Per Pair
No.	Per Pair	Per Palr		Inches	
O Galv.	\$.50	\$.35	\$.25	13/4	7/8
1 Galv.	.50	.35	.25	2	1
0 Pl. Bronze	1.20	.80	.50	13/4	7/8
1 Pl. Bronze	1.20	.80	.50	2	1
O Pol. Bronze	2.00	1.20	.90	13/4	1/8
1 Pol. Bronze	2.00	1.20	.90	2	1
With Chain	for Galy	bbe .	10e to	above	prices.

With Chain for Galv., add 10c to above prices. With Chain for Bronze, add 20c to above prices. Improved Oar Leathers TANNED LEATHER

Fig. 305

Oar leathers of an improved type, which will fit any oar and eliminate the old method of permanent fastening with nails.

Furnished complete with buttons and leather laces.

Per Pair \$1.75	Length Inches 7	Width Inches 6

Oar Leathers and Buttons

RUSSET LEATHER



Fig. 233

A high grade russet leather and button furnished complete with brass nails for attaching to oar.

Leathers	Only-7x61/2 Inches Only-1/2x81/2 Inches	.60
Buttons	Only-1/2x81/2 Inches	 .30

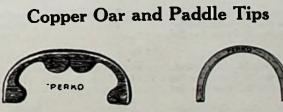




Fig. 850

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

Above Rowlocks desired CHROMIUM PLATED, add 50% to Polished Bronze Prices



Mortise Locks

CAST BRONZE-POLISHED



Cast bronze case with reversible latch bolt. Furnished with polished striking plate and one brass bit key.

Fig. 944

No. 1 2	Each \$3.00 3.80	Case Inches 3 x2x1/2 31/2x3x1/2	Facing Inches $4\frac{1}{8} \times \frac{11}{18}$ $5 \times \frac{3}{4}$	Backset Inches 1/2 2 1/4	Spindle Hub Inches ⁵ 1 6

Mortise Lock Sets

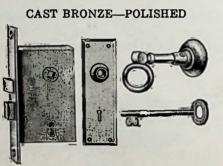


Fig. 945

The following shows mortise lock Fig. 944 numbers 1 and 2 made up in various sets.

CET A

JEIA	
With Combination Escutcheor Drop Hand	
Size No. 1, Price Per Set	\$6.80
Size No. 2, Price Per set	
SET B With Combination Escutcheons Size No. 1, Price Per Set	\$6.80
Size No. 2, Price Per Set	7.50
SET C	
	KI ID II I

With Shield	Lacutche	ions,	, Kound Knob and Drop Ha	Indle
Size No. 1.	Price Per	Set		6.00
Size No. 2,	Luce Let	Der	***************************************	1.00

SET D

With	Shield	Escutche	eons and	Two F	lound	Knobs
Size No.	1, Price	Per Set				\$6.00
Size No.	2, Price	e Per Set	********************			7.00

For Set	Combination Escutcheon	Diameter Round Knob	Shield Escutcheon
No. 1	Inches $4\frac{3}{8} \pm \frac{1}{8}$	Inches	Inches
2	6 x11/2	2	1 3/4

All of the above sets can be furnished with oval knobs if desired-Price on application.

Extra keys for above locks furnished to order.

Rim Locks

CAST BRONZE-POLISHED



All bronze, with reversible latch bolt for right and left hand doors.

Furnished with polished bronze nosings and one brass bit kev.

	Fig. 1045	Size	a 1-11-	Beckent
No. 1 2	Each \$3.00 3.25	Case Inches $2\frac{1}{2} \ge 2$ $3\frac{3}{4} \ge 2\frac{1}{2}$	Spindle Inches 10 16	Backset Inches 1/2 5/8

Rim Lock Sets

CAST BRONZE-POLISHED

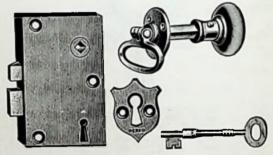


Fig. 1046

The following shows Rim Lock Fig. 1045, Numbers 1 and 2 made up in various sets.

SET A

With	Combin	natio	a Escutcheons,	Round	Knob	and
			Drop Handle			
C' 11		-				

Size No. 2,	Price Pe	er Set	 7.00

	SET B Round Knob and Drop Handle
Size No. 1, Price Per Set	\$5.80 6.80

SET C

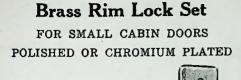
With Shield Escutcheons and Two Round Knobs

Size No	. 1, Price Per Set		\$5.60
Size No	. 2, Price Per Set		6.60
For	Combination	Dlameter	Shield
Set	Escutcheon	Round knob	Escutcheon
No.	Inches	Inches	Inches
1	4 $\frac{3}{8}$ x 1 $\frac{1}{6}$	2	1 1/2
2	6 x 1 $\frac{1}{2}$	2	1 3/4

All of the above sets can be furnished with oval knobs if desired—Price on Application.

Extra keys for above locks furnished to order.

Above items desired CHROMIUM PLATED, add 40% to Polished Bronze Prices



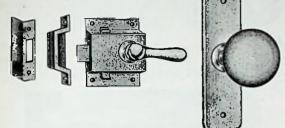


Fig. 1086

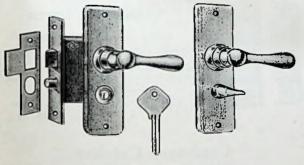
For cabin doors on small cruisers, inside and toilet doors on yachts, etc. Brass throughout. Reversible for right and left hand doors. Push type locking device. Round knob and lever handle. No keys.

No. 1 2	Size Case Inches $2\sqrt{4} \times 17_8$ 3×2	Size Escutcheons Inches $4\frac{1}{2}x\frac{1}{2}$ $4x\frac{3}{8}$	Size Knob Inches 3/4 3/4 3/4	Hackset Inches 11/2 11/2	for Thickness of Doors Inches 7/8 to 13/8 7/8 to 13/8
		Polishad		Chr	omium

Polished	Chromium
Brass	Plated
Each	Each
\$3.30	\$4.95
3.50	5.25
	Brass Each \$3.30

Brass Mortise Lock Set

WITH 2 KEYS FOR SMALL CABIN DOORS POLISHED OR CHROMIUM PLATED





For inside and outside doors on cruisers and yachts. Brass throughout, reversible for right and left hand doors. With lever lock on one side and key lock on the other. With two lever handles.

For doors 7/8 to 11/2 inches thick.

Size Case Inches 2x1%x 1 6x 1	Size Face Inches 31/4 x 11 16	Size	Length Levers Inches 2	Back- set Inches I 5 I 5
Polli Br: Ea \$4.	ass ch			

Brass Mortise Lock Set

FOR SMALL CABIN DOORS POLISHED OR CHROMIUM PLATED

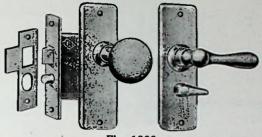


Fig. 1088

For small cabin and inside doors on all classes of cruisers and yachts. Brass throughout. Reversible for right and left hand doors. Lever type locking device. Round knob and lever handle. No keys.

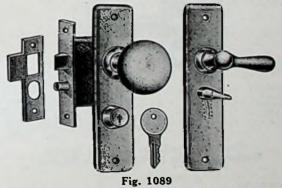
No. 1 size for doors 5/8 to 13/8 inches thick.

No. 2 size for doors 7/8 to 11/2 inches thick.

No. 1 2	Size Case Inches 2x1 15x3/6 2x1 3/4x 10	Size Face Inches 31/4 x 1 31/4 x 11 31/4 x 11	Size Escutcheons Inches 37/8 x 1 1 4 x 1 3/8	Size Knob Inches 1 3/4 1 3/4	Backset Inches 7/8 I 15
	No. 1 2	Polishe Brass Each \$3.85 3.85		Chromiu Plated Each \$5.50 5.50)

Mortise Cylinder Lock Set

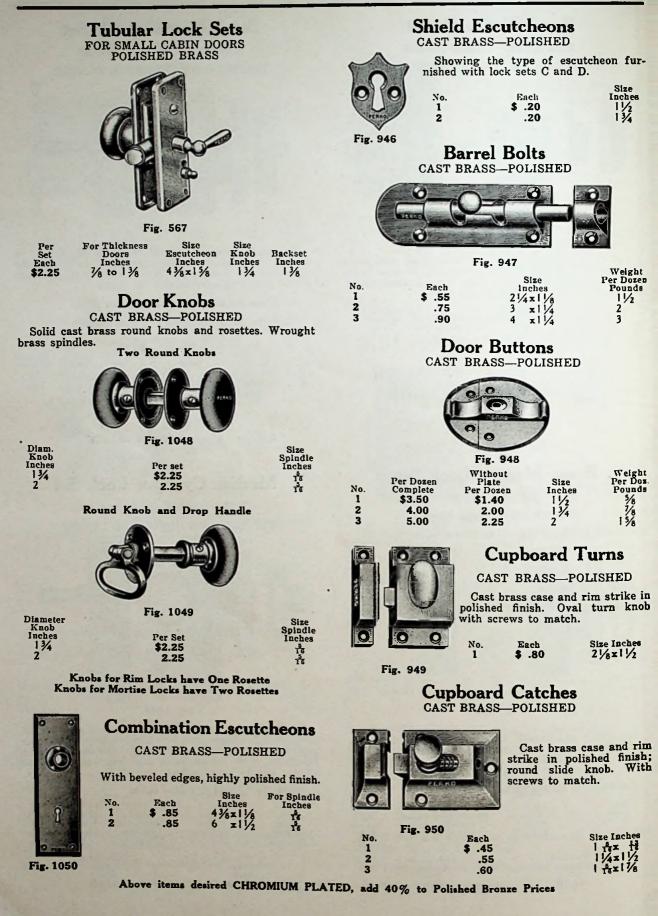
WITH 2 KEYS—ALL BRASS POLISHED OR CHROMIUM PLATED

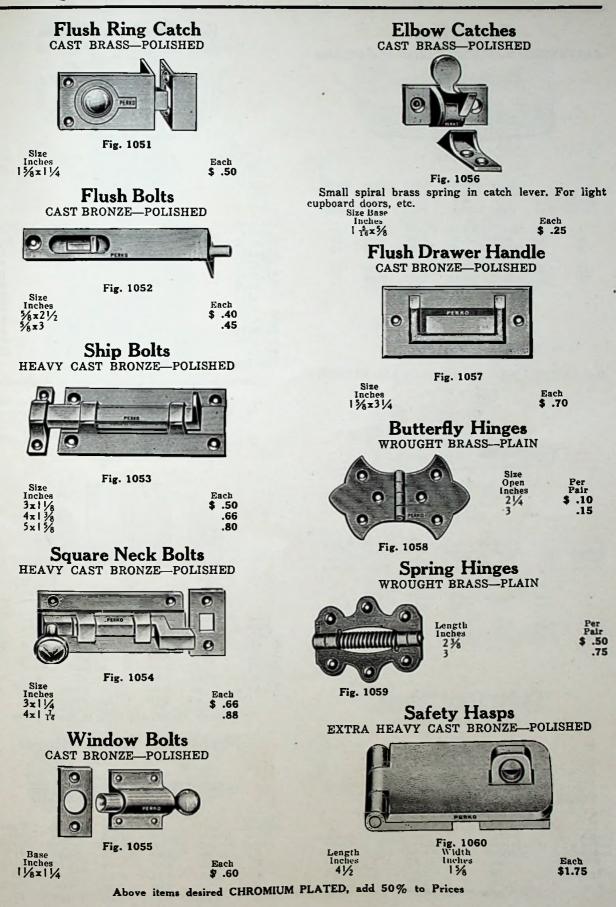


For inside and outside doors on cruisers and yachts. Reversible for right and left hand doors. With lever lock on one side and cylinder key lock on the other. Furnished with round knob and lever or with two levers. Can be keyed alike.

For doors 7/8 to 11/2 inches thick.

Size	Size	Size	Size	Back-
Case	Face	Escutcheons	Knob	set
Inches	Inches	Inches	Inches	Inches
2x17/8x 16	31/4x 11	51/8x11/2	1 3/4	l $\frac{5}{16}$
Polished		Chromium		
Brass		Piated		
Each		Each		
\$7.00		\$8.75		





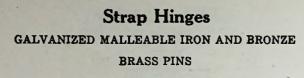




Fig. 120

Lengti Openee Incher		Plain Bronze Per Pair	Polished Bronze Per Pair	Nickel Plated Per Pair	Chrom. Plated Per Pair	Weight Per Pair Pounds
4 6 8	\$.40 .60 .95	\$.75 1.00 1.25	\$1.15 1.40 1.85	\$1.65 2.00 2.60	\$2.15 2.50 3.10	5/8 7/8
10 12	1.20 1.70	1.65 2.30	2.40 3.10	3.40 4.10	3.80 4.60	1 1/8

Port Hinges

GALVANIZED MALLEABLE IRON AND BRONZE BRASS PINS

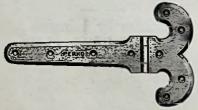
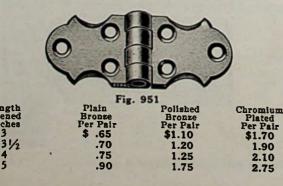


Fig. 109

Length Opened Inches	Galv. Per Pair	Plain Bronze Per Pair	Polished Bronze Per Pair	Nickel Plated Per Pair	Chrom. Plated Per Pair	Weight Per Pair Pounds
4	\$.60	\$1.00	\$1.70	\$2.20	\$2.70	1/2
6	.85	1.30	2.00	2.60	3.20	1/2 1/8
8	1.30	1.75	2.75	3.50	4.15	11/2
10	2.00	2.60	3.60	4.35	5.10	2
12	2.60	4.65	5.50	6.35	7.10	25/8

Cuddy Door Hinges

HEAVY CAST BRONZE



Fast Pin Butt Hinges CAST BRASS-EMERY FINISH BRASS PINS

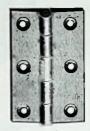


Fig. 952

Size Open Inches	Per Doz. Palrs	Size Open Inches	Per Dos. Pairs
11/2×11/4	\$ 4.80	$3 \times 1\frac{1}{2}$	\$13.25
1/2x1/2	5.04	3 x2	13.44
13/4 11/4	5.04	3 x21/4	15.36
13/4 = 11/2	5.76	$3 \times 2\frac{1}{2}$	15.36
2 x11/4	6.00	3 x3	16.48
$2 \times 1/_{2}$	6.48	$3\frac{1}{2}x2\frac{1}{2}$	20.00
$2 \times 1\frac{3}{4}$	7.44	31/2x3	21.60
2 x2	7.92	31/2x31/2	24.00
21/2=11/2	9.36	4 x3	28.16
21/2x13/4	10.56	$4 \times 3\frac{1}{2}$	31.44
21/2×2	10.80	4 x4	33.60
21/2×21/2	12.00		

Polished or Chromium Plated, Price on Application

Other Sizes Furnished to Order

Loose Pin Butt Hinges

CAST BRASS—POLISHED BRASS PINS



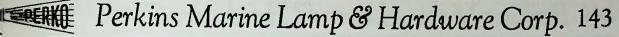
Fig. 953

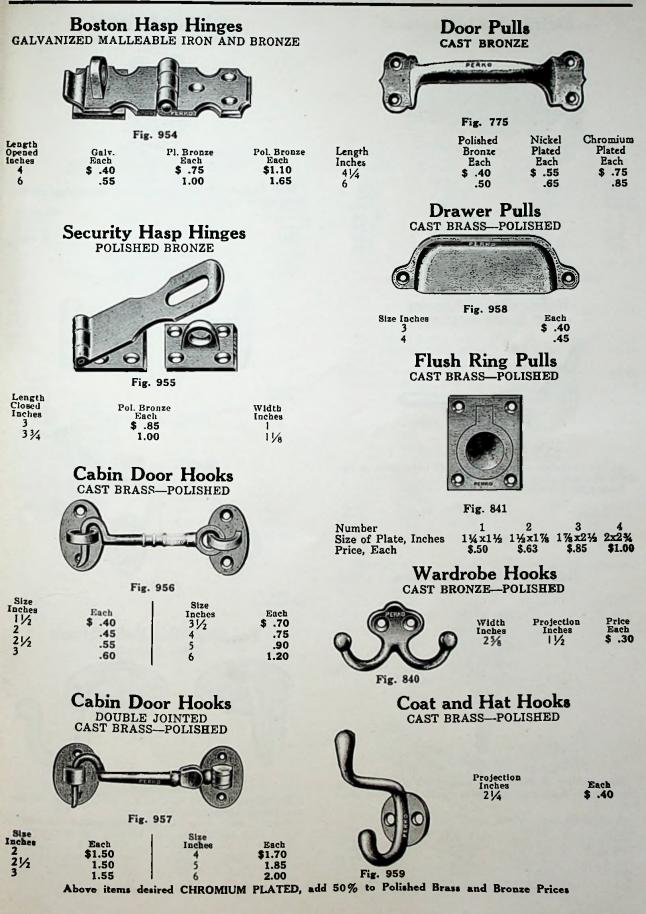
Size Open Inches	Size Screw Per Inches Pair	Size Open Inches	Size Screw Inches	Per Pair
$2 \pi 1 \frac{1}{2}$	3/4x6 \$1.15	3 3 3	1x 8	\$2.30
2 x2	3/4x7 1.40	31/2x3	1x11	3.00
$2\frac{1}{2} \times 2$	1/8x7 1.6		1±11	3.30
$2\frac{1}{2} \times 2\frac{1}{2}$	7/8x7 1.80		1x11	4.50
3 x2	1 x8 2.00		1x11	5.00
$3 \times 2\frac{1}{2}$	I x8 2.20		IxII	6.00

Chromium Plated, add 50% to above Prices

Skylight or Hatch Hinges CAST BRONZE

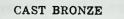
Length Fig. 376							
Between Joints Inches 2	Plain Bronze Per Pair	Polished Bronze Per Pair	Nickel Plated Per Pair		Length Open Inches 111/4		
3	\$2.10 2.40	\$3.40 3.75	\$4.15 4.60	\$4.65 5.05	121/4		
4 5	2.60 4.20	4.25 6.00	5.25 7.30	5.65 7.60	13 161⁄4		
6	4.50	6.50	8.00	8.25	17		







Hatch Adjusters



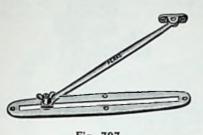


Fig. 797

Polished	Nickel	Chromium	Length	Length
Bronze	Plated	l'lated	Arm	Plate
Each	Each	Each	Inches	Inches
\$2.25	\$2.75	\$3.25	8	8 ¹ / ₂
2.75	3.25	3.75	10	10 ³ / ₄
2.75	3.25	3.75	10	

Sash or Skylight Fastener

CAST BRONZE



Polished Bronze Inches Each 3/8 x 4 \$2.00

Size

170	
Nickel	
Plated	
Each	
\$2.50	

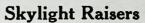
Chromium Plated Each \$3.00

Skylight Hinge

CAST BRONZE-POLISHED



Used with gutter brass tubing. cut				
of flange, 5 inches.	0	viic	 P,	
Polished, Per Pair			 	\$5.25
Chromium Plated, Po	er Pair		 	7.00



ALL POLISHED BRASS



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

No. 1 2 3	Length of Arm Inches 91/4 91/4 91/4	For Tubing Diameter Inches 3/4 3/4 2/8	Polished Per Set \$8.50 8.50 8.50	Chromium Plated Per Set \$10.50 10.50 10.50
--------------------	--	---	---	--

Skylight Quadrants

CAST BRONZE



Fig. 449

	CAST BR	ONZE	
Length Inches	Polished Bronze Per Pair	Nickel Plated Per Pair	Chromiun Plated Per Pair
5	\$3.50	\$4.25	\$5.00
8	5.25	6.25	6.75
10	6.50	7.50	8.30
12	7.25	8.50	9.25

Weight

Hatch Hinges

CAST BRONZE



No 1 2

hi				hatch allow
h	atch	cover	to b	e laid
fl	at o	n dec	k.	
	Si	ze—2	7⁄8 x 3	31/4

Price Per Pair Polished Bronze \$4.00 Nickel Plated ... 4.50 Chromium Plated 5.25

Illustration shows one-half pair.

Hatch Bracket

POLISHED BRASS

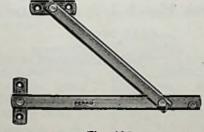
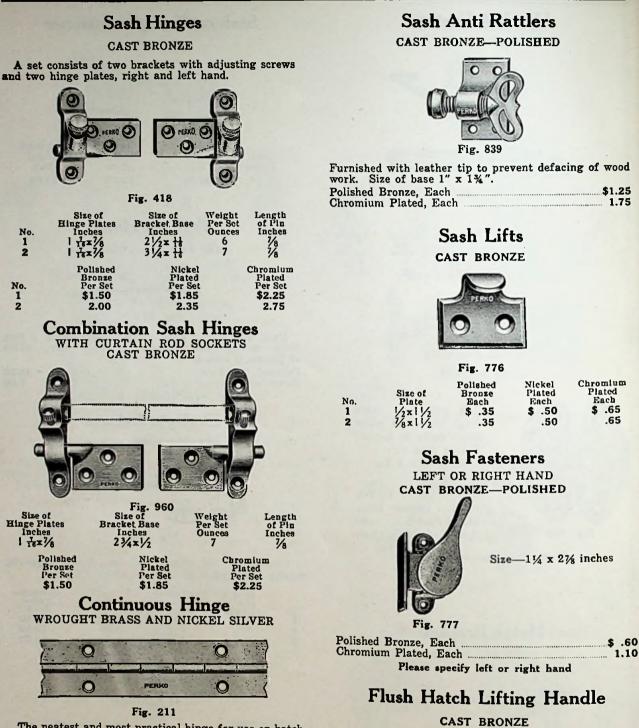


Fig. 406

Length	Polished	Nickel	Chromium	Siz
Closed	Brass	Plated	Plated	Brack
Inches	Per Pair	Per Pair	Per Pair	Inch
10	\$3.00	\$4.00	\$4.60	2 3/8:



The neatest and most practical hinge for use on hatch covers, locker doors, windshields, etc. Hinge has brass pin, and is drilled and countersunk. Holes are two inches apart, center to center.

Width Open Inches	Polished Brass Each	Nickel Plated Each	Chrom. Plated	Length	
	\$1.50	\$1.75	Each \$2.00	Inches 60	Gauge
11/4	1.65	1.90	2.25	60	.040
11/2	1.75	2.00	2.50	60	.040
11/2	2.10	2.35	3.00	72	.040
2	2.30	2.55	3.40	60	.040
2	2.75	3.00	3.85	72	.040
~ ·					

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

Designed especially for flush installation on boats, will not catch on table or chair legs or heels of shoes.

0

PERKO

Fig. 774

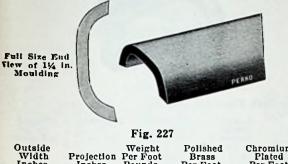
Size-3 x 23/s inches

Price Each Polished Bronze \$2.50 Nickel Plated 3.00 Chromium Plated 3.50

Fender Moulding

POLISHED BRASS

Hollow inside with flat face allowing screw heads to fit flush with surface, tapered edges to make neat fit.



Width	Projection Inches	Per Foot Pounds	Brass Per Foot	Plated Per Foot
5/8	32	1/4	\$.22	\$.42
1	135	1/2	.40	.65
11/4	3/8	3/4	.60	.90

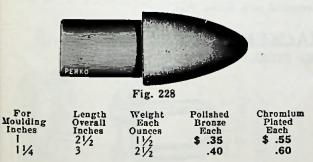
Furnished with holes drilled and countersunk at 10c per hole. Send information as to size of holes spacing, etc.

Only furnished in standard mill lengths.

Moulding Ends

POLISHED CAST BRONZE

For finishing off ends of moulding, Fig. 227.



Fender Moulding Couplings

CAST BRONZE

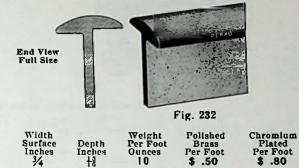
Fits inside moulding at joint, where two pieces are joined together.



Hatch Moulding

POLISHED BRASS

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.



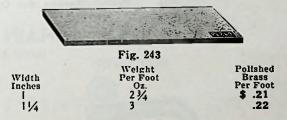
Furnished with holes drilled and countersunk at 10c per hole. Send information as to size of holes spacing, etc.

Only furnished in 10 and 12 foot lengths, no cutting.

Flat Hatch Trim

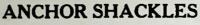
POLISHED BRASS

For neat finishing around edge of hatch. Made of 18 B & S gauge metal in standard lengths.



Furnished with holes drilled and countersunk at 10c per hole. Send information as to size of holes spacing, etc.





DROP FORGED STEEL AND BRONZE

SCREW PIN





PERKO

Fig. 314

Fig. 315

Prices and Dimensions Below Apply to Both Figs. 314 and 315

					-			
Size Inches 14 14 17 38	Galvanised Each \$.28 .28 .30 .35	Japanned Each \$.25 .28 .33	Plain Bronse Each \$.50 .50 .65 1.00	Pollshed Bronze Each \$.70 .70 .85 1.25	Length Inside Inches 7/8 1 1/8 1 1/4 1 1/4 1 1/6	Between Eyes Inches ⁷ ¹ ¹ ² ⁹ ¹ ¹	Diameter Pin Inches 1/4 ³ /8 ³ /8 ⁷ /16	Weight Per 100 in Pounde 7 12 21 32
1.	.45	.40	1.25	1.50	13/4	16 11 10 13 16	16	49
11/23/8	.50 .80	.45 .70	2.00	2.35 3.50	1 11 21/2	나 나 나	1/2 5/8 3/4	73 151
3/4	.90 1.40 1.80	.75 1.10 1.45			3 31/4 33/4		7/8 1/8	226 340 495
1/4	2.60 3.20 4.40	2.10 2.60 3.60			41/4 41/2 51/4	17/8 2 21/4	1 1/4 1 3/8 1 1/2	691 899 1219
11/2 13/4 2	5.25 10.00 15.00	4.20 8.00 12.00	*		53/4 7 73/4	23/8 27/8 33/8	1 5/8 2 2 1/4	1595 2750 3900
21/4 21/2	40.00 49.00	34.00 43.00			83/4 10	37/8	21/2 23/4	5650 8350

Bronze Shackles Are Only Furnished with Screw Pins

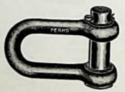
CHAIN SHACKLES DROP FORGED STEEL

SCREW PIN



Fig. 338

ROUND PIN



	112. 330			Fig. 339			
	Prices and	Dimensions Be	low Apply to Bo	th Figs. 338 and	339		
Size	Galvanized Each	Japanned Each	Length Inside Inches	Between Eyes Inches	Diameter Pin Inches	Weight Per 100 in Pounds	
14	\$.28 .30	\$.25 .28	,7/8	1/2	3 8	12	
1/8	.35	.33	11/4		3/8 1	[8 28	
12	.45	.40	11/2	16 11 16	10	44	
3%	.50 .80	.45 .70		, ļi	3/8	68 [30	
3%	.90 1.40 1.80	.75 1.10	2 1 2 7/8		^{2/4} ¹ /8	201 288	
1/2	2.60 3.20	1.45	31/4	1 11 17/6	11/8	441 625	
1%	4.40	2.60 3.60	· 3 11 41/2	2 21/4	13/8	800 1110	
13/4	5.25 10.00 15.00	4.20 8.00 12.00	5 57/8	2 3/8 2 7/8	15/8	1372 2600	
21/2	40.00 49.00	34.00 43.00	63/4 71/4 81/4	33/8 37/8 41/8	21/4 21/2 23/4	3600 5000 7400	

Perkins Marine Lamp & Hardware Corp. 149

Wire Rope Thimbles GALVANIZED FORGED STEEL REGULAR PATTERN



Fig. 466

For Size Rope Inche	Price	A 11/2 11/2 1 11/2 1 11/2 2 1/8 2 3/8	-Dimen B 1 18 1 18 1 18 1 18 1 18 1 18 1 18	sions in C 13 13 14 17 17 17 17 17 17 17 17 2	1 Inches D 5/8 5/8 3/4 18 1	E -12 -53	Est. Wt. Per 100 in Lbs. 2 2 ¹ / ₂ 3 ¹ / ₂ 5 ³ / ₈ 7 ¹ / ₂
11/2/8	7.00 8.00 11.00 13.00	25%8 23%4 35%8 3 1 4	1 3/4 1 11 2 1/2 2 3/4	1 5/8 1 3/4 2 1/4 2 3/8	拾 ½ 発 音	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	91/4 131/4 221/2 26
7/8	16.00	4	3	21/2	13/4		49
1	21.00	43/4	3¼	3	2		61
1 1/8	38.00	51/4	3 1 3	33/8	2 5		65
1 1/4	44.00	6	4¼	33/4	25/8		103
11/2	120.00	67/8	43/4	4	27/8		163
13/4	160.00	71/2	51/4	43⁄4	31/8		255
2	200.00	83/4	6	5	33/8		380

Open type made up to 11/8 inches.

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

Bronze Wire Rope Thimbles

WROUGHT BRONZE-DIPPED

	For Size Rope Inches /S ¹⁰ //4 <u>15</u>	Price Each \$.15 .15 .20 .25 .35 .45 .50
		.35
	3/8 1-	.45
1 Cold	1/2	.50
	5/8	.70

Fig. 930 For dimensions refer to Fig. 466.

Solid Wire Rope Thimbles MANGANESE BRONZE-POLISHED

	For Size Rope Inches	Price Each \$.30 .35 .40 .45 .55 .80	Thick- ness Inches 31 31 31 33 33 33 33 33 33 33 33 33 33	For Turnbuckle Inches 1/4 1/4 1/4 1/4 1/4 1/4 1/2 1/2 2/8	
--	----------------------------	--	--	--	--

Manila Rope Thimbles GALVANIZED DROP FORGED STEEL



For Dia. Rope Inches	Galvanized Per 100	I. D. Hole	O. D. Edge to Edge	Weight Per 100 in Lbs.
1000es	\$ 5.00	3/8	3/4	11/2
3/8	5.00	1/2	7/8	21/4
1	6.00	3/8	1	31/8
1/2	8.00	3/4	11/4	61/2
5/8	10.00	18	11/2	9%
3/4	12.00	1/8	13/4	161/2
7/8	15.00	1 10	2	201/4
	18.00	1/4	21/4	333/4
11/8	20.00	1/8	21/2	391/2
11/4	30.00	1/2	23/4	52
13/8	40.00	13/4	3	62
11/2	50.00	2	31/2	112
13/4	100.00	278	4	146
2	200.00	2 1/4	41/2	206

Sail Thimbles

GALVANIZED MALLEABLE IRON AND BRASS



Fig. 469

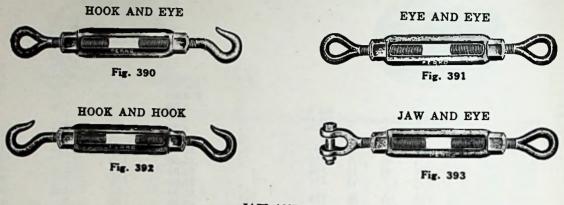
LIGHT

★Size Ins. 1/2	Galv. Iron Per Doz.	Spun Brass Per Doz. \$.35 .50	Cast Brass Per Doz.	Weight Per Doz.	For Diam. Rope Inches Inches
1/2 5/8 3/4 7/8	\$.45	.55	\$.84 .98		24-2-12
11/8	.60 .70 .80	.85 1.10 1.50	1.12 1.38 1.50		18 3/8 3/8
11/2 13/4 2 21/4	1.00 1.25 1.50 1.85	2.25	1.86 2.40 2.80 3.20		-1-1/2/0/8 3/4/4/8
21/2 23/4 3	2.25 2.50 3.00		3.60 3.95 4.90		3/4 3/4 7/8
2	2.00 2.50	н	EAVY	2 1 lbs. 27/8 lbs.	3/8 3/8
2 21/4 21/2 23/4 3	3.00 3.50 4.00			31/8 lbs. 45/8 lbs. 6 lbs.	% % %
3 31/2 4 41/2 5	5.00 6.00 10.00 15.00		1. 1.	71/8 lbs. 103/4 lbs. 16 lbs. 20 lbs.	1/8
2	15.00			20 108.	1/2

*Diameter outside from edge to edge. Specify light or heavy.

150 Perkins Marine Lamp & Hardware Corp. PERKO

OPEN TURNBUCKLES DROP FORGED STEEL GALVANIZED AND SELF COLORED





All Turnbuckles Have Right and Left Hand Threads—Threads Are All Hot Galvanized. All Turnbuckle Jaws % and Smaller Have Hex. Head Bolt and Nut. All Turnbuckle Jaws ¾ and Larger Have Pin and Cotter. ¾ and Larger Furnished with Bolt and Nut To Order.

	Eye	t Eye						Ere	& Eye				
Diameter	HOOL	& Eye & Hook	T	-				Hook	c Lye C & Eye				
de ler	Galv.	8. C.	Jaw & Galv.	Eye	Jaw d		Diameter	Hook	& Hook	Tave	& Eye	Tom	& Jaw
Takeup	Each	Each	Each	S. C. Each	Galv.	8. C.	&	Galy.	S. C.	Galv.	S. C.	Galv.	S. C.
		macu	Dated	Macu	Each	Bach	Takeup	Each	Each	Each	Each	Each	Each
* 3 16x 3	\$.40	\$.36	\$.50	\$.45	\$.60	\$.55							
* 1/4x 4	.40	.36	.50	.45	.60	.55	#11/12						
							*11/4x12		\$ 6.00	\$ 9.00	\$ 7.50	\$11.00	\$ 9.00
- 1gx 41		.44	.62	.54	.74	.66	18	9.00	7.50	11.00	9.00	13.00	10.50
* 3/8x 6	.60	.52	.74	.64	.88	.78	24	11.50	9.50	13.00	11.00	15.00	12.50
					.00	.10	36	16.00	13.00	17.00	14.00	18.00	15.00
* 1/2x 6	.90	.80	1.10	.95	1.30	1.15					11.00	10.00	10.00
9	1.45	1.20	1.70	1.40	1.90	1.55							
12	1.70	1.40	2.00	1.60	2.30		11/2=12	11.00	9.00	12.00	10 50	15.00	10.00
			2.00	1.00	2.30	1.85	+ 18	13.50		13.00	10.50	15.00	12.00
* 3/8x 6	1.15	.95	1.30	1.10	1.50	1.05	24		11.00	15.75	13.00	18.00	15.00
9	1.75	1.45	2.00	1.70		1.25		17.00	14.00	20.00	16.50	23.00	19.00
12	2.10	1.70			2.30	1.90	36	22.00	18.00	26.00	21.00	30.00	24.00
18			2.40	2.00	2.70	2.20	48	28.00	23.00	33.00	27.00	38.00	30.00
10	2.60	2.20	3.10	2.60	3.50	2.90							
3/4x 6	1.50	1.25	1.75	1.45	2.00	1.65							
• 9	2.30	1.90	2.70	2.20	3.00		*13/4±18	22.00	18.00	28.00	22.50	33.00	27.00
12	2.70	2.20	3.10	2.60		2.50	24	28.00	23.00	34.00	28.00	39.00	32.00
18	3.60	3.00			3.50	2.90	36	36.00	30.00	42.00	35.00	48.00	39.00
24	4.20	3.50	4.20	3.50	4.70	3.90	48	47.00	38.00	55.00	44.00	62.00	50.00
27	4.20	3.50	4.90	4.10	5.50	4.60			00.00	33.00	44.00	02.00	30.00
• 7/ax12	3.40	2.80	2.00				*2 x24	42.00	35.00	50.00	41.00	58.00	47.00
18			3.90	3.20	4.50	3.70	36	50.00	40.00	59.00			55.00
24	4.30	3.60	5.00	4.20	5.75	4.70	48	62.00			48.00	68.00	
29	5.25	4.40	6.25	5.10	7.00	5.75	10	02.00	50.00	74.00	60.00	85.00	70.00
*1 ±12	4.20	3.50	4.80	4.00	5.50	4.00							
18	5.50	4.50	6.50	5.25		4.60	*21/4x24	60.00	50.00	74.00	60.00	85.00	70.00
24	6.75	5.50			7.25	6.00	36	68.00	55.00				
36	8.50		8.00	6.50	8.75	7.25	48	86.00		84.00	69.00	100.00	82.00
		7.00	10.00	8.25	11.50	9.25	40	00.00	70.00	105.00	84.00	125.00	98.00
*11/8±12	5.25	4.20	6.00	4.90	6.75	5.50							
18	6.75	5.50	8.00	6.50	8.75	7.25							
24	8.25	6.75	9.50	8.00			*21/2=24	80.00	65.00	100.00	78.00	120.00	91.00
36	10.50	8.50	12.00		10.50	8.75	36	93.00	75.00	117.00	94.00	141.00	112.00
		0.00	12.00	9.75	13.50	11.00	48	110.00	90.00	138.00			126.00
100	-						1000		00.00	130.00	100.00	100.00	

For One Lock Nut Add 5% to List. For Two Lock Nuts Add 10% to List. *Indicates standard marine lengths.

Improved Pipe Turnbuckles

GALVANIZED DROP FORGED STEEL WITH LOCK NUTS

		(contraction	124.130FAASS		
	and the second second				-
		Fi	g. 398		
Diam. Thread Inches /4 3 76 3/4 /2 5/6 3/4 /6 1 1/4 1/2 1/4	Eye and Eye Each \$.85 1.00 1.15 1.55 2.20 3.00 4.00 5.00 8.00 15.00 25.00	Jaw and Eye 5.95 1.10 1.25 2.45 3.35 4.50 5.60 9.00 16.50 28.00	Jaw and Jaw Each \$1.05 1.20 1.35 1.95 2.70 3.70 5.00 6.20 10.00 18.00 31.00	Length of Pipe Inchem 51/2 53/4 61/2 8 103/4 12 15 15 16 21 21 21	Weight Per 100 in Lbs. 471/2 621/2 102 178 369 500 775 1025 2050 3200 4500
2 21/4	40.00 65.00	43.00 70.00	47.0 0 75.00	24 24	7500
21/2	80.00	90.00	100.00		

Sizes larger than 1¼ inches are furnished in the round type.

round type. Jaws % and smaller have hex. head bolt and nut. Jaws ¾ and larger have pin and cotter, furnished with bolt and nut to order.

Malleable Body Turnbuckles

DROP FORGED STEEL FITTINGS HIGH TENSILE STRENGTH



Fig. 395

These turnbuckles have been greatly improved and tested for tensile strength, and in most sizes proved stronger than drop forged turnbuckles.

Diameter and Takeup 1/4 x 3 3/4 3/6 x 4 1/4 3/6 x 4 3/4 1/2 x 6 5/4 = 6	Hook and Eye Galvanized Each \$.34 .38 .48 .70 1.20	Eye and Eye Hook and Hook Galvanized Each \$.34 .38 .48 .70 1.20	Tensile Strength Pounds 1330 1960 2405 5790 8810
1/8×0	1.20	1.20	0010

Hook and eye galvanized carried in stock, other fittings furnished to order.

Petite Brass Turnbuckles

RIGHT AND LEFT HAND THREADS

0-	171221111111	mannin	D=0)
0	Fig	. 396	-	
Thrd. Diam. Inches 1/8 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Lgth. Takeup Inches 7/6 1 ¹ /6 1 ¹ /2 1 ³ /4	Overall Lgth. Closed Inches $2\frac{1}{16}$ $3\frac{1}{2}$ $3\frac{1}{16}$ $5\frac{1}{8}$ 6	Inside Diam. Eye Inches ¹ /4 ³ /8 L	Plain Brass Each \$.20 .25 .30 .35 .40

Swivels

WELDLESS DROP FORGED STEEL

	(3	C		
		Fig.	622		_
Size Inches 1/4 1/6 3/8	Galv. Each \$.75 .90 1.00	Overall Length Inches 31/4 41/8 5	Width Inside Inches 3/4 1 1 1/4	Est. Weight Each in Lbs. To To 5/8	Est. Ult. T. S. Tons 21/2 41/4 51/2
1/2 5/8 3/4	1.50 2.50 3.50	6 71⁄2 9	11/2 13/4 2	1 1/4 2 1/4 3 1/2	91/2 143/4 181/2
7/8 1 1/4	4.50 5.50 11.00	91/2 111/2 14	21/4 21/2 3	53/8 83/4 16	221/4 271/2 371/2

Deduct 10% for Self Colored Finish.

Swivels with Jaw End

DROP FORGED STEEL



rig.	623
	TTUIAL

Size Inches 1/4 18 3/8	Galv Each \$1.00 1.15 1.25	Overall Length Inches 31/4 41/8 41/2	Width Between Jaws Inches 1/2 1/2 5/8	Size of Bow in Clear Inches 3/4x 3/4 x x 1/4x	Est. Wt. Each in Lbs. 31 31 15 16 11
1/2/0	2.00 2.80 3.90	55% 78	3⁄4 1 1 1⁄8	$1\frac{1}{2} \times 1\frac{1}{4}$ $1\frac{3}{4} \times 1\frac{1}{2}$ $2 \times 1\frac{3}{4}$	11/4 21/8 31/2
7/8 1 1 1/4	5.00 6.00 12.00	9 11 131⁄2	1 1/4 1 1/2 1 3/4	21/4 x2 21/2 x21/2 3 x23/4	51/4 93/4 163/4

Deduct 10% for Self Colored Finish.

Note-Jaw End Swivels have same approximate tensile strength as Swivels, Fig. 622.

Swivels

GALVANIZED MALLEABLE IRON AND BRONZE

OD							
Size No. 1 2 3 4 5 6	Galvanized Each \$.05 .09 .14 .20 .25 .40	Fig. 624 Plain Bronze Each \$.15 .20 .30	Length Inches 134 21/6 21/2 31/4 31/2 43/6	Weight Per 100 in Lbs. 4 71/3 111/4 191/2 241/2 41			

Hooks and Thimbles DROP FORGED STEEL FOR MANILA ROPE					Small Eye Hooks for blocksDrop forged steel					
Size	Galv.	Fig. 609 Length Overall	For Diam.	Weight Per 100	Size Inches /4 7 7 8 1/2 7 8	Galv. Each \$.15 .15 .18 .20	Length Overall Inches 2 3% 21/2 31/4	Throat Opening Inches 13 1/2 1/2 17 14	Est. Wt. Per 100 in Lbs. 7 10 21 26	
Inches 1/4 1/5 3/8 1/2	Each .22 .22 .25 .30	Inches 2 2 3/6 2 7/8 3 5/8	Rope Inches 3/6 16 1/2 5/8	in Lbs. 6 10½ 18 37½	3/8 3/4 7/8 1 1/6 1 1/4	.35 .45 .60 .75 1.05 1.30	4 47/8 53/8 61/4 7 73/8		50 92 128 200 255 375	
5%8 374 7%8	.50 .60 .80 1.00	45% 57% 61/4 7	3/4 7/8 1 1/8	80 150 212 300		"	S" Hoo	ks		
1 1/8 1 1/4	1.35 1.65	71/2 83/8	11/4	350 450				LVANIZED		

Size Inches 14 14 14 15 3/8 15 1/2

Deduct 5% for Self Colored Finish.

Hooks and Thimbles DROP FORGED STEEL

FOR WIRE ROPE



Sise Inches	Galv. Each	Length Overall Inches	Score of Thimble	Weight Per 100
1/4 T	\$.22 .22	2 2 3/8	Inches	in Lbs. 8 11
3/8 1/2	.25	23/4	+****	24
5/6	.50 .60	4 47/8	1/2 1/2	62 103
17/8	.80 1.00	53/8	3/8	142 225
1/2	1.35 1.65	7 71/4	1%	293 400
	5% for Sel	Colored Fi	nish.	

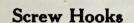


Fig. 680

96

.80 2.40 Length Overall Inches

1/2

21/2 33/4 33/4

Dat. Wt. Per Dos. in Lbs.

1/4 1/2

13/4

STEEL-GALVANIZED



Fig. 779

Size Inches	Galvanized Per Doz. S.95	Length Overall Inches 31/2	Est. WL Per Dos. in Lbs. 3/4
11	1.10	4 4 3/4 57/8	1
3/8	1.20		21/8
1/2	2.20		43/4

Perkins Marine Lamp & Hardware Corp. 153 PERKA

S	mall	Eye M		Hook	8
		DROP	JRGED		
	(()	2	9	
		Fig.	439		
Diameter Hook Inches 1/4 1/4 1/4 3/8	Galv. List Each 30 .30 .35	Length Hook Inches 21/8 21/2 27/8	Inside Diam. of Eye Inches 1/2 5/8 11	Inside Diam. of Hook Inches 5/8 3/4 7/8	Weight Per 100 in Lbs. 8 12½ 22
1/2 5/8 3/4	.40 .70 .90	31/2 4 18 51/8	7⁄8 1 1 1⁄8	11/4	38 78 113
1 ⁷ /8	1.20 1.50	5 🔒 6 1⁄4	11/4	11/2 13/4	175 281

Match Hooks and Wire Rope

Thimbles



			LIE' 222			
Size Inches	Galv. List Each	Score of Thimble Inches	Length Hook Inches	Inside Diam, of Eye Inches	Diam.	Approx. Weight Per 100 in Lbs.
1/4 a T 8 3/8	\$.40 .40 .45	18 1/4 15	21/8 21/2 27/8	1/2 5/8 11	3/8	11 17 27
1/2/8/4	.55 .90 1.10	1 1/2 5/8	31/2 4 18 51/8	7/8 1 1 1/8	11/4	51 95 141
1%	1.50 1.85	1/2	5 🕂	11/4	1/2	207 334

Match Hooks and Manila Rope Thimbles



Fig. I	540
--------	-----

Size Inches 1/4 1 3/8	Galv. IAst Each \$.40 .40 .45	Thimble Scored For Rope Diam. Inches 3/8 11 1/2	Length Hook Inches 21/4 211 31/8	Inside Diam. of Bye Inches 5/6 3/4 7/8	Diam. of Hool	Approx. Weight Per 100 in Lbs. 10 17 25	
1/2/0/4	.55 .90 1.10	5/8 7/8	37/8 41/2 5 18		1 11/4 13/6	49 107 166	
1 1/8	1.50 1.85	11/2	61⁄8 7	1 3⁄4 2	11/2	254 377	
	DEDU	CT 5%	FOR SE	LF COL	ORED		

Mooring or Towing Hooks

DROP FORGED STEEL WITH SAFETY LATCH



Size No.	Galv. Each	Inside Diam. Eye Inches	Outside Diam. Eye Inches	Extreme Length Inches	Extreme Width Inches	Throat Opening Inches
2 3	\$.75 .90	3/4 7/8	11/2	4 1 5	2 1 8 3 노	5%a 11
4	1.10	-	2	51/2	3 👬	++

Wire Rope Clips

MALLEABLE IRON SADDLE STEEL U-BOLT AND NUTS

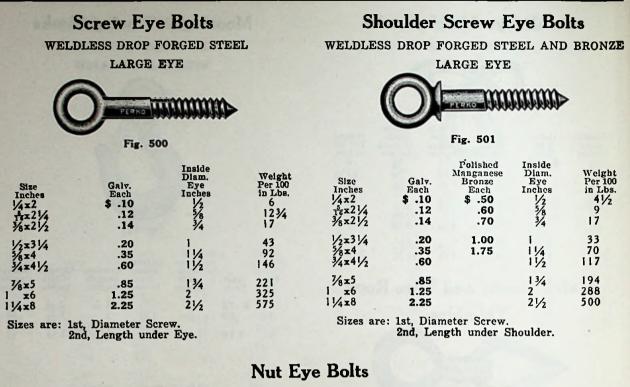
GALVANIZED



Fig. 333

Size Wire Rope Inches	Galvanized Per 100	Est. Wt. Per 100 in Lbs.
	\$ 8.00	81/2
1∕4	8.00	161/2
1 ¹ 8	9.00	19
3/8	12.00	25
	15.50 18.50	32 40
3/8	24.50	62
3/4	35.00	101
1 1/8	50.00 60.00	.149 190
11/2	95.00 112.00	310 375
³ /8	130.00	560
¹ /2	150.00	645
1 3⁄4	415.00	1085
2	550.00	1620





DROP FORGED STEEL-LARGE EYE

	0	7				(EAKO		
	Witho		ler-Fig. !	522	EXTRA	LONG	With Shoulder	-		
Size Inches /4x2 fex2/4 /6x2/2 //2x3/4 3/6x4 3/6x4 3/6x4 3/6x4 1/6x5 1 x6 1 /4x8	Galv. Each \$.14 .16 .18 .25 .45 .70 1.00 1.50 2.50	Plain Bronze Each \$.45 .50 .60 .90 1.50	Polished Bronze Bach \$.50 .60 .70 1.00 1.75	Size Inches 1/4x4 1/5x41/4 3/8x41/2 1/2x6 3/8x6 3/4x6 3/4x6 1/2 1/2x8 1/2 1/4x11 DITIONAL LH	Galv. Each \$.20 .24 .28 .40 .60 .95 1.35 1.90 3.25	Plain Bronze Each \$.55 .65 .75 1.15 1.75 GALVANI	Polished Bronze Each \$.60 .75 .85 1.25 2.00	Inside Diam. Eye Inches 1/2 3/4 1 1/4 11/2 13/4 2 21/2	Regular Welght Per 100 in Lbs. 7 11 20 44 86 124 270 329 688	Extra Long Weight Per 100 in Lbs. 10 16 27 56 104 150 323 398 835
Length of Shank	-	1			-Diameter	of Bolts-				
Inches 3	¹ / ₄ \$.20	\$.24	% \$.28	1/2	51 Bolts-	34	-	7/8	1
4	.20		.24	.28	\$.40	********				
5	.21 .22		.25	.30	.40	\$.60	\$.95			
7			.26	.32 .34	.40 .42	.60 .63	.95 .99		\$1.35 1.35	
8				.36	.44	.65	1.03		1.35	\$1.90
10			*****		.48	.00	1.03		1.35	1.96
12 .						.78	1.19		1.55	2.08
15	*****		*****			.87	1.31		1.70	2.26
18 20				***** *****		.96	1.43 1.51		1.85 1.95	2.44 2.56
DEDUCT	5% FOR	SELF C	OLORED	FINISH-ALL	BRONZE	BOITS FI	IDNISHED O	NT 12 1371	TU CUAL	ILDER.

DEDUCT 5% FOR SELF COLORED FINISH-ALL BRONZE BOLTS FURNISHED ONLY WITH SHOULDER.

If bolts are ordered with shank lengths other than catalogue listed dimensions, the price for the next longer listed length will apply, plus a \$2.00 charge per diameter for machine set-up. Bolts with shanks longer than listed lengths can be supplied in all diameters and styles. Prices on application.

Screw Ring Bolts



Shoulder Screw Ring Bolts

DROP FORGED STEEL AND CAST BRONZE



Fig. 619

Galv. Each 5.25

.30

.35

.50

.85

1.35

2.00 2.90 5.75 Polished Bronze Each

\$1.00

1.15

1.30

2.25

3.50

Weight Per 100 in Lbs. 14 24 39

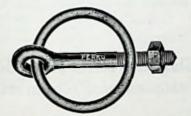
82

154

380 550 1100

	Fig. 6	18		
Size Inches 1/4 x 2 ⁵ x 2 1/4 3/8 x 2 1/2	Galv. Each \$.25 .30 .35	L.D. Ring Inches 1 ³ / ₄ 2 2	Weight Per 100 in Lbs. 14 25 40	Size Inches 1/4x2 3/6x21/4 3/8x21/2
1/2 x 3 1/4 5/8 x 4 3/4 x 4 1/2	.50 .85 1.35	21/2 23/4 3	90 167 254	1/2 x3 1/4 5/8 x4 3/4 x4 1/2
7/8 x 5 x 6 1/4 x 8	2.00 2.90 5.75	31/4 33/4 5	408 596 1125	7∕8x5 x6 1∕4x8

Nut Ring Bolts DROP FORGED STEEL AND CAST BRONZE



Without Shoulder-Fig. 620



With Shoulder-Fig. 621

	REGULAR			LONG		Regular	Extra Long
Size Inches	Galv. Each	Polished Bronze Each	Size Inches	Galv. Each	Diam. Stock Inside Diam. Rings Inches	Weight Per 100 in Lbs.	Weight Per 100 in Lbs.
1/4 x 2 5 16 x 2 1/4	\$.30 .35	\$1.00 1.15	1/4 x 4 5 x 4 1/4	\$.35 .40	$\frac{1}{4} \times 1\frac{3}{4}$ $\frac{5}{10} \times 2$	15 27	18 32
3/8 x 2 1/2 1/2 x 3 1/4	.40 .55	1.30 2.25	3/8x41/2 1/2x6	.50 .70	3/8 x 2 1/2 x 2 1/2	44 97	51 109
5/8×4 3/4×41/2	.85 1.35	3.50	5%26 3426	1.00 1.60	5%x23/4 3/4x3	178 271	196 297
⁷ /8×5 1 ×6	2.00 2.90		7/8 x8 1 x9	2.35 3.30	⁷ / ₈ x3 ¹ / ₄ 1 x3 ³ / ₄	491 659	544 728
11/4=8	5.75		1¼x11	6.50	11/4=5	1375	1522

ADDITIONAL LENGTHS-GALVANIZED

of Shank				Diameter	of Bolts			
Inches	1/4	5	3%8	1/2	5/8	34	7/8	1
3	\$.35	\$.40	\$.50			**********		**********
4	.35	.40	.50	\$.70	**********		******	
5	.36	.41	.52	.70	\$1.00			
6	.37	.42	.54	.70	1.00	\$1.60	********	
7			.56	.72	1.03	1.64	*********	
8	*****		.58	.74	1.06	1.68	\$2.35	
01	1+111	*****		.78	1.12	1.76	2.45	\$3.36
12	******	(1.18	1.84	2.55	3.48

DEDUCT 5% FOR SELF COLORED FINISH-ALL BRONZE BOLTS FURNISHED ONLY WITH SHOULDER

If bolts are ordered with shank lengths other than catalogue listed dimensions, the price for the next longer listed length will apply, plus a \$2.00 charge per diameter for machine set-up. Bolts with shanks longer than listed lengths can be supplied in all diameters and styles. Prices on application.

Rivet Eye Bolts WELDLESS DROP FORGED STEEL

LARGE EYE



Fig. 914

Size Inches	Galv. Each	Inside Diam. Eye Inches	Weight Per 100 in Lbs.
1/4=4	\$.14	1/2	93/4
18141/4	.16	5/8	15¼
3/8141/2	.18	3/4	25
1/2x6	.25	1 1/4	61
5/8x6	.45		95
3/4×6	.70	11/2	145
2/8×8	1.00	13/4	255
1 x9	1.50	2	370
11/4x11	2.50	2 1/2	709

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

Rivet Ring Bolts

WELDLESS DROP FORGED STEEL

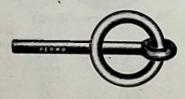


Fig. 915

Shoulder Rivet Eye Bolts

WELDLESS DROP FORGED STEEL LARGE EYE



Fig. 916

Size Inches	Galv. Each	Inside Diam. Eye Inches	Weight Per 100 in Lbs.
1⁄4x4	\$.14	1/2	101/2
$\frac{5}{16} \times 4\frac{1}{4}$.16	5/8	16½
$\frac{3}{8} \times 4\frac{1}{2}$.18	3/4	25
1/2×6	.25	1	68½
5/8×6	.45		95
3/4 x6	.70	1 1/2	165
7/8 x8	1.00	1 3/4	231
1 x9	1.50	2	380
11/4 x 1 1	2.50	2 1/2	750

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

Shoulder Rivet Ring Bolts

WELDLESS DROP FORGED STEEL

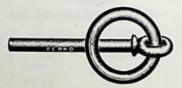


Fig. 917

Size Inches	Galv. Each	Inside Diam. Ring Inches	Weight Per 100 in Lbs.	Size Inches	Galv. Each	Inside Diam. Ring Inches	Weight Per 100 in Lbs.
1/4=4	\$.30	13/4	19	1/4x4	\$.30	13/4	19
15x41/4 1/8x41/2	.35	2 2	31 45	$\frac{5}{16}$ x 4 1/4 $\frac{3}{8}$ x 4 1/2	.35 .40	22	32 471⁄2
1/2x6	.55	21/2	113	1/2x6	.55	21/2	113
5/8x6		23/4	183	3/8x6	.85	23/4	200
3/4×6	1.35	331/4	279	34x6	1.35	3	293
2/8×8	2.00		432	78x8	2.00	31/4	462
1 x9	2.90	334	645	1 x9	2.90	3 <i>3</i> /4	670
1¼x11	5.75		1331	1¼x11	5.75	5	1375

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

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

DEDUCT 5% FOR SELF COLORED FINISH

If bolts are ordered with shank lengths other than catalogue listed dimensions, the price for the next longer listed length will apply, plus a \$2.00 charge per diameter for machine set-up. Bolts with shanks longer than listed lengths can be supplied in all diameters and styles. Prices on application.

1.11

151

Connecting Links

DROP FORGED STEEL



Fig. 319

Size Inches	Galv. Per Dozen	S. C. Per Dozen	Överall Dimensions Inches	Est. Wt. Per Doz. Pounds
± 1⁄4 ±	\$1.50 1.50 1.65	\$1.15 1.15 1.20	1 x 3/4 1/2 x 1 x 1 1	3/8 3/4
3/8 11 1/2	2.00 2.40 2.90	1.50 1.80 2.00	2 1 x 1 3/8 2 3/8 x 1 1/2 2 5/8 x 1 3/4	31/8 41/2
11 %e +t	3.90 4.50 5.50	2.70 3.20 4.10	3 x1 14 3 5 x2 7 3 1/2 x2 5 d	65%8 9
1/8	6.00 9.25 14.00	4.50 6.75 11.00	3 ⁷ / ₈ x2 ¹ / ₂ 4 ¹ / ₂ x2 11 5 x3 ¹ / ₄	141/4 201/4 29
1/4	16.50 21.50 27.00	13.50 17.50 24.50	53/8x31/2 61/8x4 63/4x43/4	40 531⁄2 75
1/2/8	34.00 41.00 92.00	30.00 37.00 59.00	71/4 x51/8 8 x51/2 9 x61/4	103 131 216

Swing Links

DROP FORGED STEEL WITH INTERLOCKING

LUGS



Fig. 784

Size Inches	Galvanized Per Dozen	Self Colored Per Dozen	Outside Dimensions Inches	Wt. Per Dozen in Lbs.
1/4	\$ 2.40	\$ 2.20	7/8×17/8	3/4
14	2.90	2.40	1 1 ax2 1	11/2
3/8 10	3.40	2.70	1 1/4 x 2 1/2	21/4
10	4.60	3.50	1 16x2 18	31/4
1/2 0/2 5/8	5.75	4.30	15/8x31/8	51/4
ia	9.00	7.50	1 \ara 1	73/4
3⁄8	9.75	8.00	2 1 x4 1	11
3/4	13.00	11.00	25/8×47/8	191/4
.18	20.50	17.00	21/8 = 5 3/4	301/2
1	24.50	20.50	$3\frac{1}{4} \times 6\frac{7}{10}$	431/2

Lap Links GALVANIZED WROUGHT STEEL



Fig. 785

Inside Price Dimensions Size Per of Link Inches Doz. Inches 1/3 \$.40 x1/2 1/4 .47 1/2x1/2 1/4 .94 1/2x1/2	Inches	Price Per Doz. 51.35 1.85 2.10	Inside Dimensions of Link Inches I Tox 13 2 x 1/8 2 x 1

Brass Cap Screws

U. S. Standard Thread



Fig. 432

DIAMETER OF SCREW-PRICE PER HUNDRED Length under

Head						
inches	¼ in.	re in.	3% in.	76 in.	1/2 in.	% in.
1/2	\$ 4.70	\$ 6.70				
5%8	4.90	6.90	\$ 8.80			
3/4	5.10	7.10	9.10	\$12.10	\$17.90	
7/8	5.30	7.30	9.40			
1	5.50	7.60	9.80	13.10	19.00	\$26.10
14	6.00	8.20	10.60	14.20	20.20	28.50
11/2	6.50	8.90	11.50	15.40	21.50	31.00
1%	7.10	9.70	12.50	16.70	22.90	33.60
2	7.80	10.80	13.60	18.10	24.40	36.40
24	8.70	11.80	14.80	19.60	26.00	39.40
21/2	9.80	12.90	16.10	21.20	27.70	42.70
2%	11.00	14.20	17.50	23.00	29.60	46.30
3	12.00	15.40	19.00	25.00	31.70	50.30

Brass Stove Bolts

ROUND HEAD AND FLAT HEAD

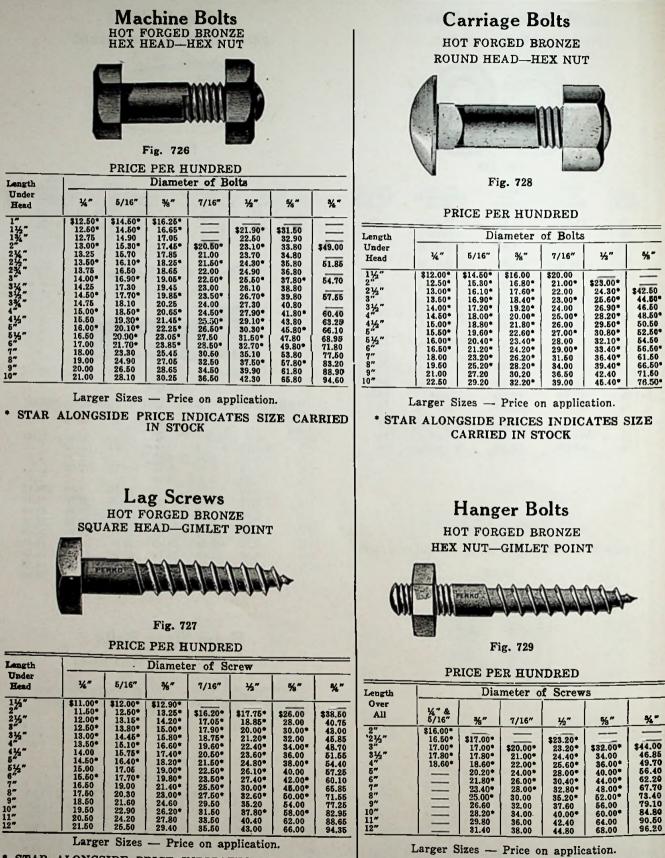


 L_{II}



PER HUNDRED, WITH NUTS

ength		Diameter	Inches	
nches	3/16	4	5/16	%
11/2	\$2.40	\$ 4.10	\$ 7.30	\$10.20
2	2.88	4.75	8.30	11.50
	3.45	5.40	9.50	13.50
21/2 3	4.00	6.20	11.00	15.50
31/2		6.90	12,50	17.50
4		7.70	13.60	19.70
5		9.20	16.25	24.50
6		11.00	19.00	28.50



.

* STAR ALONGSIDE PRICE INDICATES SIZE CARRIED IN STOCK

STAR ALONGSIDE PRICES INDICATES SIZE CARRIED IN STOCK



Cut Thread-Square Head and Square Nut

PRICE PER 100 PIECES

	FI	AIGE PE	5R 100 P	TECE	5	
Length in In.			lameter in			
	18 & 1/4	15	∛8	16	1/2	10 & %
1 3/4	\$1.10 1.15*	\$ 1.70 1.75*	\$ 2,25 2,35*	\$ 3.95	\$ 4.60*	\$ 8.10
14	1.25*	1.80*	2.45*	4.10	4.80	8.35
14	1.30*	1.95*	2.60*	4.25	5.00*	8.60
24	1.50*	2.20*	2,90*	4.55*	5.35*	9.10*
242	1.70*	2.45*	3.20*	4.85*	5.75* 6.15*	9.60* 10.10*
3%	1.85* 2.05*	2.70* 2.95*	3.50* 3.80*	5.20* 5.50*	6.50*	10.60*
4	2.50*	3,15*	4,10*	5.85*	6.85*	11.10*
11/2	2.65*	3.60*	4.40*	6.15*	7.25*	11.60*
4 1/2 5 5 1/2	2.80*	3.80*	4.80*	6.50*	7,65*	12.10*
6	2.95* 3.10*	4.00*	5.10* 5.40*	6.85° 7.15°	8.05* 8.45*	12.60 13.10*
6%	3.80*	5.10*	6.50*	9.20	10.15	13.60
6½ 7 7½	4.00*	5.35*	6.85*	9.65	10.60*	14.10*
71/2	4.15*	5.55*	7.15*	10.10	11.05	14.60
8 8 %	4.35* 4.50	5.80* 6.00	7.50* 7.80*	10.55* 11.00	11.50* 11.95	15,10* 15.60
9	4.70	6.25	8.15*	11.45	12.40*	16.10*
91/2	4.85	6.45	8,45	11.95	12.85	16.60
10	5.05	6.70	8.80*	12.35	13.30*	17.10*
11 12	5.40 5.75	7.15 7.60	9.50 10.20*	13.20 14.05	14.70 15.60*	18.10 19.10*
13	6.30	8.25	11.30	15.35	16.50	20.10
14	6.60	8.70	11.95	16.20	17.40*	21.10*
15	6.95	9.15	12.60	17.15	18.30	22.10
10 17	7.25	9.60	13.25 13.90	18.05 18.95	19.20* 20.10	23.10* 24.10
18	7.90	$10.05 \\ 10.50$	14.55	19.85	21.00*	25.10
10	8.25	10.95	15.20	20.75	21.90	28.10
20	8.60	11.40	15,85	21.65	22.80*	27.10*
20 21 22					23.70 24.00	28.10 29.10
23					25,50	30.10
24					26.40	\$1.10
Length		I	lameter in	Inches		
in Inches		7/2	1	-	11/8	1%
11/2	\$10.95 11.60*	\$16.70 17.60	\$23.2			
21/2	12.25*	18.50	25.54			
21/4	12.90*	19.40	26.70) \$		\$ 54.45
31/2	13.55*	20.30	27.8		47.20 48.50	56.10 57.75
416	14.20* 14.85	21.20 22,10	29.00 30.15		49.80	59.40
41/2 5 51/2	15.50*	23.00	31.30		51.10	61.05 62.70
51/2	16.15	23.90	32.43	5	52.40	62.70
6 6½	16.80*	24.80	33.60		53.70	64.35 66.00
7	17.45 18.10	25,70 26.60	34.78 35.90	2	55.00 56.30	67.65
71/2	18,75	27.50	37.00		37.60	69.30
8	19,40*	28.40	38.20)	58.90	70.95
8%	20.05	29.30	39.30	5	60.20	72.60 74.25
9%	20.70 21.35	30.20 31.10	40.50		61.50 62.80	75.90
10	22.00*	32.00	42.80		64.10	77.65
11	23.30	33.80	45.10) –	66.70	80.85
12 13	24.60*	35.60	47.40	2	69.30	84.15 87.45
14	25.90 27.20*	37.40 39.20	49.70		71.90 74.50	90.75
15	28.50	41.00	54.30		77.10	94.05
16	29.80*	42.80	56.60)	79.70 82.30	97.35
17 18	31.10	44.60	58.90		82.30	100.65 103.95
10	32.40 33.70	46.40 48,20	61.20 63.50		84.90 87.50	103.95
20	35.00	50.00	65.80		00 10	110.55
20 21 22	36.30	51.80	68.10)	92.70	113,85
22	37.60	53.60	70.40)	95,30 97.90	117.15 120.45
23 24	38.90 40.20	55.40 57.20	72.70		97.90 100.50	120.45
	10.40	01.40	10.00		200.00	

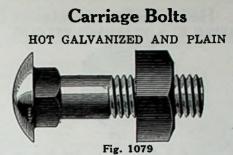
Intermediate lengths take next higher list.

We stock Galvanized Bolts only. Plain Bolts (not Galvanized) furnished to order.

r inch Machine and Carriage Bolts carried in stock up to 6 inches long.

r inch Machine and Carriage Bolts not carried in stock.

Diameters and lengths not listed can be furnished— Price on Application.



Cut Thread-Square Nut

PRICE PER 100 PIECES

	-		-Diam	eter in I	nches	_	
Length	Ta					18	
in	and	Ťc	3%8	76	1/2	and	3/4
		τσ	78	16	72		14
Inches	1/4					5%8	
%	\$1.05	\$ 1.60	\$ 2.00				
1	1.10*	1.65*	2.10*	\$ 3.50	\$ 4.25*		
14	1.15*	1.70*	2.20*	3.60	4.40	\$ 8.35	
1%	1.20*	1.80*	2.35*	3.75	4.60*	8.60	\$13.45
21/2	1.35*	2.00*	2.60*	4.05*	4.95*	9.10	13.10
21/2	1.55*	2.25*	2.90*	4.10*	5.35*	9.60 10.10*	13.75 14.40
3	1.70*	2.50*	3.20*	4.75*	5.75*		15.05
31/2	1.85*	2.75*	3.50*	5.10*	6.15*	10.60* 11.10*	15.70*
4	2.30*	2.05*	3.80*	5.40*	6.55*	11.60*	16.35
4% 5 5%	2.45*	3.40*	4.10*	5.75*	6.95* 7.35*	12.10*	17.00*
5	2.60*	3.60*	4.50*	6.10*		12.10*	17.65
5%	2.75*	3.85*	4.80*	6.45*	7.80*	13.10*	18.30*
0	2.90*	4.05*	5.10*	6.80*	8.20* 9.75	13.60	18.95
01/2	3.05*	4.90*	6.30*	8.25 8.70	9.75	14.10*	19.60*
1	3.85*	5.15*	6.65*		10.20-	14.60	20.25
7%	4.00*	5.35*	6.95* 7.30*	9.15 9.60*	11.10*	15.10*	20.90*
8 8½	4.20*	5.60*	7.60*	10.05	12.05	15.60	21.50
8%	4.35	5.80	7.00*	10.05	12.504	16.10*	22.20*
9	4.55	6.05	8.25	10.50	12.95	16.60	22.85
91/2	4.70	6.25	8.60*	11.40	13.40*	17.10*	23.50*
10	4.90	6.50 6.95	9.30	12.25	14.30	18.10	24.80
11	5.25	7.40	10.00*	13.10	15.20*	19.10*	26.10*
12	5.60	8.05	11.10	14.40	16.10	20.10	27.40
13	6.15 6.45	8.50	11.75	15.25	17.00*	21.10*	28.70*
14		8.95	12.40	16.20	17.90	22.10	30.00
15	6.80 7.10	9.40	13.05	17.10	18.80*	23.10*	31.30*
16	7.45	9.85	13.70	18.00	19.70	24.10	\$2.60
17 18	7.45	10.30	14.35	18.90	20.60*	25.10*	\$3.90*
18	8.10	10.30	15.00	19.80	21.50	26.10	35.20
	8.45	11.20	15.65	20.70	22.40*	27.10*	36.50*
20	0.40	TT'NO	10.00				

Intermediate lengths take next higher list.

Lag Screws HOT GALVANIZED AND PLAIN



Fig. 1080

Cut Thread-Square Head-Gimlet Point

PRICE PER 100 PIECES

		TIT		10 100	1 1.00			
Lgth.				iameter				
In.	1/4 & 15	%	10	1/2	%	*	7/8	1
1		\$2.85	\$ 4.25	\$ 5.25				
î4	2.15	2.60	3.90	4.85	\$ 7.95	\$12.50		
2'2	2.35*	2.85*	3.55*	4.45*	7.40	11.75	\$18.60	\$28.40
21/2	2.55*	3.10*	3.90*	4.85*	6.85	11.00	17.60	27.10
312	2.80*	3.40*	4.30*	5.30*	7.50	11.90	16.80	26.08
3%	3.05*	3.70*	4.70*	5.75*	8.15	12,80	18.00	\$5.00
4	3.30*	4.00*	5.10*	6.20*	8.80*	13.70	19.20	26.55
41/2	3.55*	4.30*	5.50*	6.65*	9.45	14,60	20.40	28,10
5	3.80*	4.65*	5.90*	7.10*	10.10*	15.50	21.60	29.65
5%	4.05*	5.00*	6.30*	7.55*	10.75	16.40	22.80	31.20
6	4.35*	5.35*	6.70*	8.00*	11.40*	17.30	24.00	32.75
614	4.65	5.70	7.10	8.45*	12.05	18,20	25.20	34.30
7	4,95	6.05*	7.50*	8.90*	12.70*	19.10	26.40	\$5.85
71/2	5.23	6.40	7.90	9.35	13.35	20.00	27.60	37.40
Ś″	3.53	6.75*	8.30*	9,80*	14.00*	20.90	28.80	38.95
S 9	6.15	7.45	9.10	10.70	15.20	22.65	31.00	41,80
10	6.75	8.15	9.90	11,60	16.40	\$4.40	33.20	44.65
11		8.90	10,80	12.60	17.70	26,25	35.50	47,65
12		9.63	11.70	13.60	19.00	28.10	\$7.90	50.75
13					20.30	29.95	40.50	64.25
14					21.60	31.85	43.10	57.75
15					22.90	33,75	45.75	61.35
16					24,20	\$5,65	48.40	64.95

B D Ir

Le Iz

Hexagon Brass Nuts TAPPED U. S. STANDARD THREADS



Bolt	<u>U.</u> S	. S. Stand	lard	List Price Per	Hundred	
nlameter	Threads Per Inch	Width (Inches)	Thickness (Inches)	Milled Send-Finished	Cast	
1/1	20	1/2	1/4	\$2.40		
14 14 14 14 14 14 14 14 14 14 14 14 14 1	18	37	A	3.20		
3/8	16	11	1/8	5.20		
18	14		1	7.20		
1/2	13	7/8	1/2	9.60	\$5.00	
-	12	7/8	18	15.00	7.00	
56	11	11	1/2 = 1 = 1/2 5/2 1/2	17.00	8.75	
3/4	10	11/1	3/1	27.00	12.00	
74	9	17	7/8	45.00	18.00	
1	8	15%	1	68.00	25.00	
11/8	7	11	11/8		37.50	
11/4	7	2	11/4		50.00	
13%	6	218	13%		65.00	
11/2	6	23/8	11/2		75.00	
15%	51/2	2	15%		125.00	
13/4	5	23/4	11/4		150.00	
1%	5	21	17/8		175.00	
2	41/2	31/8	2		250.00	

Brass Washers



Bolt Size	Outside Diameter	Inside Diameter	Thickness	Price Per Pound	Bolt Size
*	1/2	.195	.040	\$.80	4
1/4 1	1/2 118 7/8	1	.051	.75	14
- 1	7/8	3/8	.064	.75	1/4 1/1
****	1	1	.081	.70	3/8
14	14	1/2	.081	.70	14
1/2	13/8	1	.091	.70	1/2
14	11/2	5/8	.091	.70	*
5/8	15%	1 1	.102	.70	5/8
44	2		.114	.70	3/4
7/8	21/4	4	.128	.70	7/8
1	1 21/2	1 11	.144	.70	1

Wrought Steel Washers HOT GALVANIZED-U. S. STANDARD SIZES



		Fig	. 1083			
For Bolts Inches 3/16 1/4* 5/16 3/8* 7/16 1/2* 9/16 5/8* 3/4*	Outside Diam. Inches 9/10 3/4 7/8 1 1-1/4 1-3/8 1-1/2 1-3/4 2	Size Hole Inches 1/4 5/10 3/8 7/10 1/2 9/10 5/8 11/10 13/16	Thick- ness Gauge Nos. 18 10 16 14 14 12 12 12 10 10	Thick- ness Inches 3/04 1/10 5/04 5/04 7/04 1/8 1/8	Number in 100 Pounds 30200 14900 11100 6700 4100 2000 2200 1300	Per Pound \$.38 .33 .33 .21 .20 .19 .19 .18
7/8 1*	2-1/4 2-1/2	15/10 1- 1/10	9	5/32 5/32	1000 728 595	.18 .18 .18

Square Iron Nuts HOT GALVANIZED AND PLAIN TAPPED U. S. STANDARD THREAD



	Fig	. 1084		
Weight Per M in Lbs. 13.8	Price Per 100 \$.55	Bolt Dlam. Inches 3/4*	Weight Per M in Lbs. 237.1	Price Per 100 \$ 4.60
22.8	.75	1/8	371.0	7.20
37.4 55.7		11/4	725.4	10.00
78.6	2.00	11/4	957.0	19.60
109.8	2.80 3.25		1257.6	33.50 45.20
	Per M in Lbs. 13.8 22.8 37.4 55.7 78.6 109.8	Weight Per M Price 13.8 \$.55 22.8 .75 37.4 1.05 55.7 1.50 78.6 2.00 109.8 2.80	Per M Price Diam. in Lbs. Per 100 Inches 13.8 \$.55 34* 22.8 .75 78 37.4 1.05 I 55.7 1.50 I 18 78.6 2.00 I 14 109.8 2.80 I 38	Weight Per M Price Bolt Diam. Weight Per M 13.8 \$.55 3/4* 237.1 22.8 .75 7/8 371.0 37.4 1.05 1 518.1 55.7 1.50 11/8 725.4 78.6 2.00 13/4 957.0 109.8 2.80 13/8 1257.6

Hexagon Iron Nuts HOT GALVANIZED AND PLAIN TAPPED U. S. STANDARD THREAD



		Fi	ig. 1085		
Bolt Diam. Inches	Weight Per M in Lbs.	Price Per 100	Bolt Diam. Inches	Weight Per M in Libs.	Price Fer 100
1/4*	12.2	\$.65	3/4*	202.3	\$ 5.10
16	19.9	.90	7/8	314.1	8.00
3/8 16 1/2*	32.7	1.20		441.4	11.15
TE	48.4	1.75	11/8	617.2	15.55
1/2*	68.4	2.25	11/4	819.3	21.40
78 5%*	97.2	3.10	13/8	1077.5	28.80
3∕8 *	122.3	3.60	1 11/2	1371.0	38.70

Brass Spring Cotter Pins



		Fig. 703 PRICE	PER 100	
ength oches	3/32	Dlamete % \$.75	r Inches 5/32 \$1.15	3/16
11/2	.75	1.00	1.50	\$2.20
~	.90	1.30	1.80	2.80
21/2		1.60	2.35	3.30

Standard Packages Machine, Carriage and Lag Bolts

The bolts are packed in cartons or paper packages depending on length, shorter lengths are packed in cartons.

Diam. Inches	Machin Number Per Pkg.	e Bolts- Extreme Length Inches	Carriag Number Per Pkg. 100	e Bolts Extreme Length Inches	Number Per Pkg.	Bolts Extreme Length Inches
1/4	100	8	100	8	100	10
5	50	10	50	tŏ	100	10
3/8	50	12	50	12	50	12
15	50	12	50	12	50	12
1/2	50	10	50	8	50	12
1/2	25	12	25	12		
ŢŢ	25	8	25	8		-
5/8	25	. 8	25	8	25	8
Lon	ger lengt	hs and la	arger dia	meters p	acked ac	cording

to the discretion of the manufacturer.

Perkins Marine Lamp & Hardware Corp. 161

"KORODLESS" STAINLESS STEEL WIRE RIGGING

The greater strength of Korodless permits the use of smaller diameters, thus very materially cutting down both weight and wind resistance.

KORODLESS RIGGING IS: Over three times as strong as bronze or galvanized iron. Over two times as strong as phosphor bronze or monel metal. Over 1½ times as strong as cast steel.

		19	6 x	7	6 x	19
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	\$	8888	383	888	
	Fig. 10	)22	Fig. 1	023	Fig.	1024
Diam. Inches 377/8-377 77/4-973-17/2-2/8- 77-77/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/4-973-17/2-2/8- 77-72/8-77-72/8- 77-72/8-77-72/8- 77-72/8-77-72/8- 77-72/8-77-72/8- 77-72/8-77-72/8- 77-72/8-77-72/8- 77-72/8-77-72/8- 77-72/8-77-72/8- 77-72/8- 77-72/8-77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77-72/8- 77	Approx. Breaking Strength Pounds 1,200 2,100 3,300 4,700 6,300 8,200 10,300 12,500 17,600 23,400 29,700	Price Per foot \$ .09 .11 .13 .17 .20 .23 .27 .30 .40 .53 .67	Approx. Breaking Strength Pounds 800 1,400 2,100 3,000 4,000 5,200 6,600 8,000 11,500 15,400 19,800	Price Per foot \$ .09 .11 .13 .15 .17 .19 .23 .26 .33 .45 .56	Approx. Breaking Strength Pounds 1,500 2,300 3,200 4,300 5,600 7,000 8,600 12,200 16,400 21,200	Per foot 9 .17 .20 .22 .26 .29 .32 .34 .42 .53 .68
\$/R	44,000	.92	30,300	.83	32,600	.86

For 6 x 37 construction, add 20% to 6 x 19 list prices. For 8 x 19 construction, add 20% to 6 x 19 list prices.

1 x 19 STANDING RIGGING—This construction has the greatest strength—least stretch—and is the stiffest type of rigging. It is more difficult to splice than 6 x 7 but an experienced rigger can make satisfactory splices.

6 x 7 STANDING RIGGING—This is the most commonly used type. It is more easily spliced than any other type but this construction is not as strong as other types of Korodless standing rigging.

6 x 19 RUNNING RIGGING—This is the most generally used construction where flexibility is desired (halyards, tiller ropes, etc). While not so flexible as the ropes having a multiplicity of very fine wires it is much stronger and more durable.

### Galvanized Iron Rigging FOR GUY ROPES



Fig. 759

Composed of six strands and a hemp center, 7 wires to the strand.

Inch													C	Ci	r	دں [	เก [ท	ní ic	ler he	eı s	nc	e													P	ri	ce	per .03	ft
11/1		•	•	•	•	•									•	• •			1/2		•	•				•		•			•		•	•			\$0	.03	1/2
74		٠	٠	•	•	•	•	•	•	•		•		•	•	• •		• •	. ¥4	į.	•			•	•	•	•	•	•	•		•	•	•	•	•		.04	
18	•	•	•	•	•	•	•	•	•	•	•	•	• •	•	•	•	• •	. ]	L	•	•	•	•	•	•	•	•	•	•	•	•	•	٠	•	•	•		.06	
18	•	•	٠	•	•	•												. 1	۱4	ί.																		.08	

### **Stainless Steel Thimbles**

POLISHED

PERHO	For diam. Rope Inches	Price Each \$.25	Length Overall Inches 11/2	Width Inside Inches ³ /8	Size Inches	Pickled Finish (Not polished) Each	Polished Each	Length Inside Inches	Between Eyes Inches
	188 - 15 - 14	.25 .30 .35		5%8 3%4 +13	1 ³ 1 1/4	\$1.00 1.00	\$1.50 1.50	7/8 11/8	$\frac{1}{16}$ $\frac{1}{12}$
		.45 .70	23/8 27/8	11/8	1 ⁵ 3/8	1.25 2.00	1.85 2.65		11 11 10
Fig. 1025	1/2	.85	21/8	1 1/8	1/2	3.25	4.50	1 13	녆

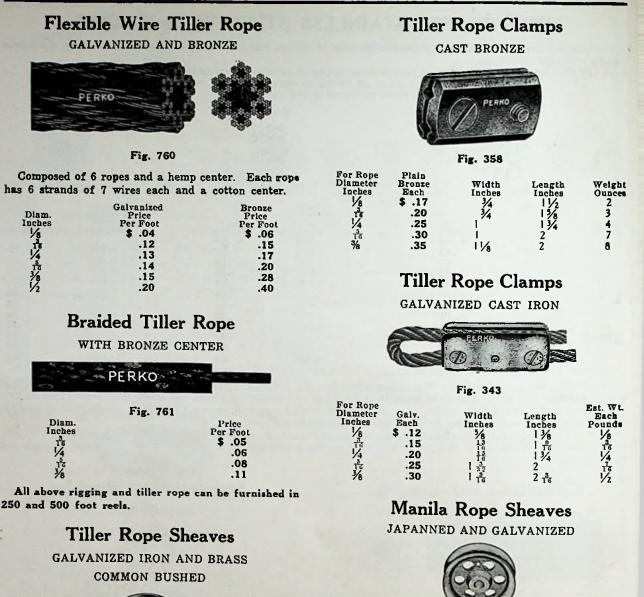


Stainless Steel Shackles

DROP FORGED SCREW PIN ANCHOR TYPE

Fig. 1027

162 Perkins Marine Lamp & Hardware Corp.





### Fig. 806

Size Sheave Inches	Size Pin Inches	Galvanized Iron Each	Plain Brase Each	Size of Rope Inches
1% x 1	1/4 OF TE	\$ .30	\$ .60	1/4
2 x 16	1/4 or fe	.30	.65	14
21/2 x 3/8	1/4 or fe	.35	.70	Te
2½ x 12	1/4 or the	.35	.70	10
3 x 18 3 x 18	fr or 3/8	.45	.90	3%
3 x 18	te or 3/8	.45	1.00	I/A
31/4 x 1/2	te or 3/8	.50	1.00	1/4
4 x 1/2	1/8 OF TE	.60	1.40	3%
4 x 5/8	3/8 or 7	.75	1.50	3%
41/2 x 18	1 or 1/2	.75	1.50	1 A
41/2 x 3/4	10 or 1/2	.80	1.75	1/2
5 x 7/8 5 x 1 6 x 11	10 or 1/2	1.25	2.75	1/2
5 x1	1/2 or 5/8	1.40	4.00	56
	1/2 or 5/8	1.60	4.00	70
6 x1	5/8 OF 3/4	2.00	4.50	3%

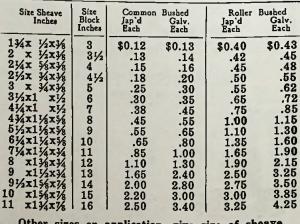


Fig. 807

PERKO

Other sizes on application, give size of sheave and diameter of rope. PERKA Perkins Marine Lamp & Hardware Corp. 163

,	Filler	Rope	Pulle	эy		
S	WIVEL	EYE A	ND STR	AP		
RAP		CAST B	RONZE-	-PLAIN		Cast
Ö	For Rope Dlam. Inches To Plain	Length Overall Inches 3½ n Bronze,	Diam. Wheel Inches 134 Each	Length Strap Inches 2	Weight Os. 6 \$1.15	e Fi

Fig. 585

# Tiller Rope Pulley WITH FLANGE EYE—CAST BRONZE

Pulley hangs loose on flange eye and can be used at any angle. Cast bronze body, brass wheel turned from rod, no rough surface to wear tiller rope.



Fig. 579

6150

### **Flange Eyes**

CAST BRONZE For Fig. 579 Pulley

Plain	Polished	Nickel	Chromlum
Bronze	Bronze	Piated	Plated
Each	Each	Each	Each
\$.14	\$.30	\$.50	\$.80
Fig. 580	Length	Width	Size
	Overall	Overali	Opening
	Inches	Inches	Inches
	2	3⁄4	5/8

### **Tiller Rope Guides**

### UPRIGHT PATTERN-CAST BRONZE

Cast bronze base, brass wheel turned from rod. Wheel turns very freely and has no rough surfaces to wear tiller rope.

<b>6</b>	For Rope Diam. Inches	Size Base Inches % x 1 ½	Weight Oz. 2
	Pollshed	Nickel	Chromium
	Bronze	Plated	Plated
	Each	Each	Each
	\$.65	\$.95	\$1.20

### **Tiller Rope Guides**

SIDE PATTERN-CAST BRONZE

bronze base, brass wheel turned from rod.

J.	For Rope Diam. Inches	Size Base Inches 34 x 1 18	Weight Oz. 1½
Fig. 594	Pollshed	Nickel	Chromium
	Bronze	Plated	Plated
	Each	Each	Each
	\$ .60	\$.95	\$1.40

# Tiller Rope Guides GALVANIZED CAST IRON AND BRONZE

**Round Plate** 

	R	Size No. 1 2 3	For Diam. Rope Inches 1/4 5 10 3/8	Diameter Base Inches 13/6 111 114 13/4
	Fig. 102			
Size No.	Galvanized Iron	Plain Bronze	Polished Bronze Each	Chromlum Plated Each
1	Each \$.15	Each \$.30	\$ .55	\$1.55
	.25	.40	.65	1.65
23	.35	.50	.80	1.80

**Tiller Rope Guides** CAST BRONZE



Fig. 359

Size         Size         Plain           Hole         Base         Bronze           Inches         Inches         Each $3_6$ $1/2x1$ \$.14 $1/2$ $1/4x11/6$ .16 $5/6$ $1/78x11/4$ .18	Bronze	Plated	Plated
	Each	Each	Each
	\$ .25	\$ .35	\$ .70
	.30	.40	.75
	.35	.45	.85

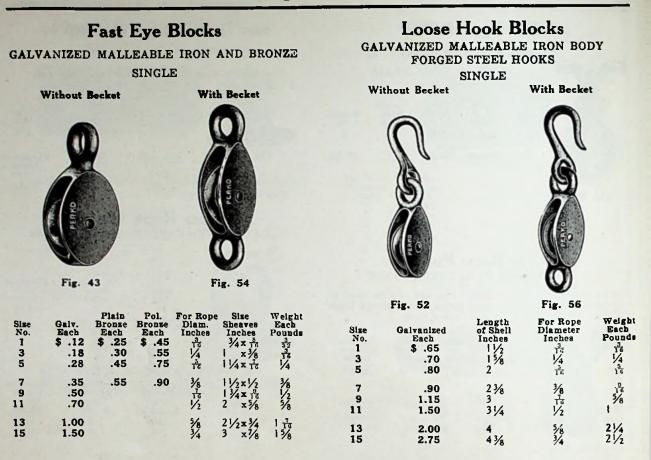
# Tiller Rope Guides GALVANIZED CAST IRON AND BRONZE OVAL PLATE



		Fi	ig. 599			
Size No. 1 2 3	Size Hole Inches 3% 1%	Size Base Inches Hx1½ 1¼x1¾ 1¼x1¾	Galv. Iron Each \$ .08 .10 .12	Plain Bronse Each \$ .14 .16 .18	Pol. Bronze Each \$ .25 .30 .35	Chrom. Plated Each \$ .70 .75 .85

Fig. 593

164 Perkins Marine Lamp & Hardware Corp. TERKO



### **Fast Eye Blocks**

### GALVANIZED MALLEABLE IRON DOUBLE

Without Becket



Fig. 51



With Becket

Fig. 55

Size No. 2 4 6	Galv. Each \$ .20 .30 .45	Plain Bronze Each \$ .45 .60 .80	Pol. 1 Bronze Each \$ .65 .90 1.20	For Rope Diam. Inches ³ 16 1/4 ⁵ 16	Size Sheave Inches 3/4 x 10 1 x 3/8 1 1/4 x 16	Weight Each Pounds ³ 18 1/4 3/8	Size No. 2 4 6
8 10 12	.55 .80 1.05	1.00	1.50	3/8 18 1/2	$\frac{\frac{1}{2} \times \frac{1}{2}}{\frac{1}{4} \times \frac{1}{10}}$ $\frac{1}{2} \times \frac{1}{56}$	5/8 3/4 1/4	8 10 12
14 16	1.65 2.50			5/8 3/4	21/2x3/4 3 x7/8	2 <del>]</del> 2 <del>]</del> /4	14 16

### Loose Hook Blocks

GALVANIZED MALLEABLE IRON DOUBLE

Without Becket

With Becket



Fig. 53

Galvanized Each \$.75

.85 1.00

1.10

1.45

1.85

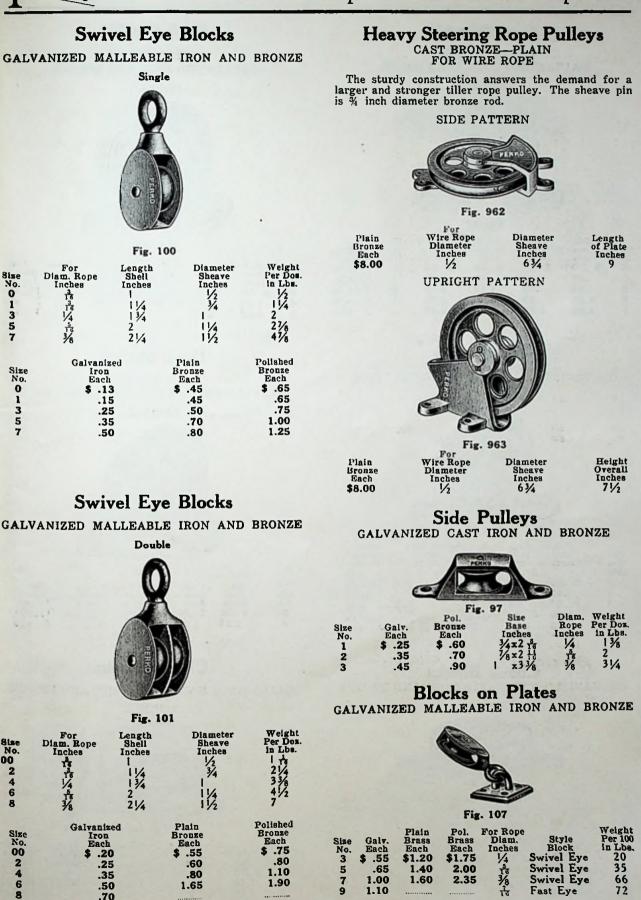
2.65

3.75

4 3/a

Fig. 58 For Rope Dlam. Inches 3 1 1/4 1 5 Weight Each Pounds Length of Shell Inches 1/4 3/8 11/2 2 1/8 ※古い 23/8 3 11/2 31/4 21/2 33/4 5/8 3/4

Perkins Marine Lamp & Hardware Corp. 165 CA PERKA



1.10

1.90

1.00

1.10

7

9

1.60

Swivel Eye

Fast Eye

66

72

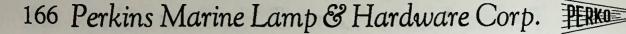
.80

1.65

.35

.50

.70



Deck Blocks OPEN PATTERN GALVANIZED IRON AND BRONZE SINGLE

Fig. 87

Size No. 0 1 3	Mall. Iron Each \$ .30 .40 .65	Cast Iron Each \$ .20 .25 .50	Plain Bronze Each \$ .60 .75 1.10	Pol. 1 Bronze Each \$ .90 1.00 1.75	For Diam. Rope Inches 18 3/8 1/2	Size Sheave Inches 11/4 x 3/8 11/2 x 1/2 2 x 5/8
57	1.20	.95 1.50	2.25	2.75	1/2 3/8	21/2 x 3/4

Deck Blocks CLOSED PATTERN GALVANIZED MALLEABLE AND CAST IRON



		rug. 55		
Mall. Iron Each	Cast Iron Each \$ .18	For Dia. Rope Inches	Weight Each Pounds	Size Sheave Inches x 5a
\$ .30	.20	5 16	V4	11/4 x 3/4
.40	.25	3/8	1/2	11/21/2
.65	.50	1/2	1	2 = 5/8
1.20	.95	5/A	13/4	21/2=3/4
1.90	1.50	3/4	21/4	3 x1/8
	Iron Each \$ .30 .40 .65 1.20	Mnll. Cast Iron Iron Each Each \$ .18 \$ .30 .20 .40 .25 .65 .50 1.20 .95	Iron Iron Rope Each Each Inches \$ .18 1/4 \$ .30 .20 5 .40 .25 3/8 .65 .50 1/2 1.20 .95 3/8	Mall.         Cast         For Dia.         Weight           Iron         Iron         Rope         Each           Each         Each         Inches         Pounds           \$ .18         1/4         Å         Å           \$ .30         .20         Å         1/4         Å           .40         .25         3/6         1/2         .65         .50         1/2           1.20         .95         3/8         1/3/4         .3/4         .3/4

### Cheek Blocks GALVANIZED MALLEABLE IRON AND BRONZE



		Fi	g. 95			
Size No. 0 1 2 3 4 5 6	Galv. Each 3.30 .35 .45 .90 1.50 2.00 3.50	Plain Bronze Dach \$ .60 .75 .85 1.35 1.90	Polished Bronze Each \$ .85 1.00 1.25 1.90 2.65	For Diam. Rope Inches 1/4 1 1 8 8 1/2 5/8 3/4 7/8	Size Sheave Inchess 1 x 3/6 1 3/6 x 17 1 1/2 x 1/2 2 x 5/8 2 1/2 x 3/4 3 1/2 x 1	

Deck Blocks

OPEN PATTERN GALVANIZED IRON AND BRONZE DOUBLE



Fig. 88

Size No. 2 4 8	Mall. Iron Each \$ .70 1.25 3.00	Cast Iron Each \$ .50 1.00 2.50	Plain Bronze Each \$1.25 1.90	Pol. Bronze Each \$1.75 2.75	Inches 3/8	Size Sheave Inches $1\frac{1}{2}x\frac{1}{2}$ $2x\frac{3}{8}$ $3x\frac{7}{8}$
----------------------------	-------------------------------------------------	------------------------------------------------	-------------------------------------------	------------------------------------------	---------------	----------------------------------------------------------------------------------------------

### Deck Blocks

CLOSED PATTERN GALVANIZED MALLEABLE AND CAST IRON

DOUBLE



Size No. 2 4	Mall. Iren Each \$ .70 1.25	Cast Iron Each \$ .50 1.00	For Dia. Rope Inches 3/8 1/2	Weight Each Pounds 7/8 11/2	Size Sheave Inches I 1/2 x 1/2 2 x 5/8

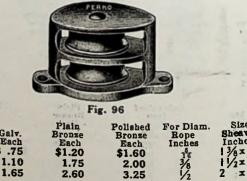
### **Cheek Blocks**

GALVANIZED MALLEABLE IRON AND BRONZE DOUBLE

DOORT

11 12

13



Perkins Marine Lamp & Hardware Corp. 167 EPERKA

**Deck Blocks** 

FOR WIRE ROPE GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 139

Size No. 1 2 3	Galv. Each \$ .60 1.10 2.00	Plain Bronze Each \$1.25 2.25 4.00	Polisued Bronze Each \$2.00 3.00 5.25	For Diam. Rope Inches 1/4 - 10 3/8 1/6	Size Sheave Inches $1\frac{7}{8} \times \frac{1}{16}$ $3 \times \frac{9}{16}$ $4 \times \frac{5}{8}$	Weight Each Pounds 5/8   3/8 2 3/4
3½ 4 5	3.00 3.50 5.25			1/2 5/8 3/4	$4\frac{1}{2}x\frac{3}{4}$ 5 x $\frac{7}{8}$ 6 x1	41/4 51/4 11

**Cheek Blocks** 

FOR WIRE ROPE GALVANIZED CAST IRON AND BRONZE



Fig. 140

Sise No. 1 2 3	Galv. Each \$ .60 .95 1.75	Plain Bronze Each \$1.25 2.25 4.00	Polished Bronze Each \$2.00 3.00 5.25	For Diam. Rope Inches 1/4 - 5 3/8 - 1/6 - 3/8 - 1/6	Size Sheave Inches $1\frac{7}{8} \pm \frac{7}{18}$ $3 \pm \frac{9}{18}$ $4 \pm \frac{5}{8}$	Weight Each Pounds 5/8 1 3/8 2 3/4
3½ 4 5	2.25 2.75 4.75			1/2 5/8 3/4	$4\frac{1}{2}$ x $\frac{3}{4}$ 5 x $\frac{7}{8}$ 6 x1	41/4 51/4

### Wire Rope Pulleys

GALVANIZED MALLEABLE IRON AND BRONZE DOUBLE TIDE PATTERN



	3	Fig.	195		
Size No. 11 12 13	Galv. Boach \$1.15 1.75 3.25	Plain Bronze Rach \$2.25 3.00 4.25	For Diam. Rope Inches $\frac{5}{16}$ $\frac{1}{4}$ $\frac{5}{16}-\frac{3}{8}$	Size Sheave Inches $2\frac{1}{2}x^{3}/8$ $3\frac{1}{4}x^{1}/2$ $4\frac{1}{2}x^{3}$	Weight Each Pounds 1 1/8 2 4 1/4

# Wire Rope Pulleys

For Diam. Rope Inches

16

5-3/A

GALVANIZED MALLEABLE IRON AND BRONZE SINGLE_UPRIGHT PATTERN



1		Fig. 2	279					Lil
Sine No. 10 20 30	Galv. Each \$ .70 1.00 2.00	Plain Bronze Each \$1.50 2.00 3.00	For Diam. Rope Inches 1/4 1/4 Ta-1/8	Size Sheave Inches $2\frac{1}{2x}\frac{3}{8}$ $3\frac{1}{4x}\frac{1}{2}$ $4\frac{1}{2x}\frac{9}{16}$	Weight Each Pounds 5/8 1 1/2 2 1/2	Size No. 110 120 130	Galv. Each \$1.15 1.75 3.25	Plain Bronze Each \$2.25 3.00 4.25

# Wire Rope Pulleys

GALVANIZED MALLEABLE IRON AND BRONZE DOUBLE-UPRIGHT PATTERN



280

For Diam.

•	Weign
ve	Each Pound
es	
3/8	11/8
1/2	2
2	41/4

# Wire Rope Pulleys

GALVANIZED MALLEABLE IRON AND BRONZE SINGLE-SIDE PATTERN



Plain Bronze

1.50

2.00

3.00



Size

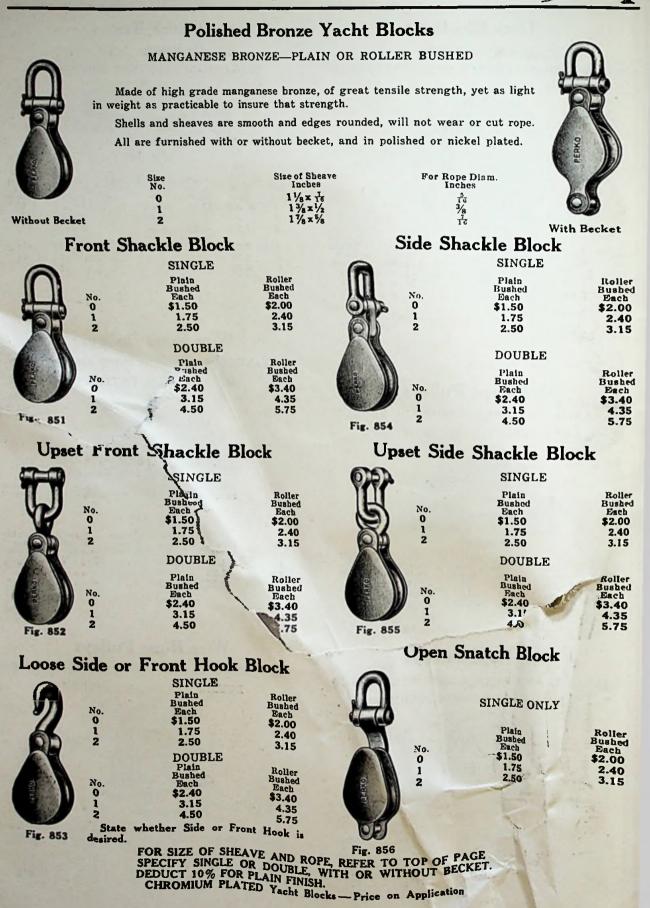
Sheave Inches Weight Each Pounds

11/4

CR.



PERKO



### POLISHED BRONZE YACHT BLOCKS

Roller Bushed Each \$3.10

3.75

4.90

Roller

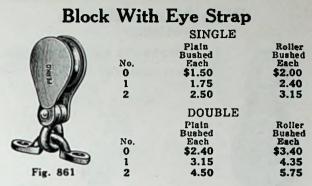
Bushed Each

\$4.50 5.70

7.50

		Shackle Block OR FRONT TYPE	
2		SINGLE	
Ŋ	No. 0 1 2	Plain Bushed Each \$2.60 3.10 4.25	
R		DOUBLE	
	No. 0 1	Plain Bushed Each \$3.50 4.50	

2



Lir	ık Dec	k Leader	
PERKO	No. 0 1 2	SINGLE Plain Bushed Each \$1.85 2.25 3.25	Roller Bushed Each \$2.35 2.90 3.90
Fig. 862	No. 0 1 2	DOUBLE Plain Bushed Each \$2.80 3.65 5.25	Roller Bushed Each \$3.80 4.85 6.50

Halyard Deck Leader

No. O SINGLE Plain Bushed Each

\$1.75

Roller Bushed Each

\$2.25

### Self Locking Bridle Block FOR PEAK HALYARD

6.25

	SINGLE ONLY	
	Plain Bushed	Roller Bushed
No.	Each	Each
1 2	\$3.40 4.50	\$4.00 5.25

Bridle Only see Fig. 877

### Fig. 858

Fig. 857

### Main Sheet Bridle Block

66	
ä	
	No 0 1 2
ERKO	12

### SINGLE ONLY

			6 St.	2	3.00	3.65
to. D	Plain Bushed Each \$1.85 2.25	Roller Bushed Each \$2.35 2.90		No.	DOUBLE Plain Bushed Each	Roller Bushed
2	3.25	3.90		0	\$2.65	\$3.65
	0.110		Fig. 863	1 2	3.50 5.00	4.70 6.25

Fig. 859

# Peak Halyard Bridle Block

		SINGLE ONLY	r
B	No. 1 2	Plain Bushed Each \$3.40 4.50	Roller Bushed Each \$4.00 5.15
		BRIDLE ONLY WIT	H EYE
	No. 1 2	Plain Bronze Each \$1.65 1.90	Polished Bronze Each \$2.10 2.35

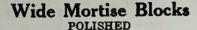
# Swivel Deck Leader

		SINGLE	
	No. 0 1 2	Plain Bushed Each \$2.75 3.25 4.25	Roller Bushed Each \$3.25 3.90 4.90
		DOUBLE	
	No. 0 1 2	Plain Bushed Each \$3.65 4.65	Roller Bushed Each \$4.65 5.85
Fig. 864	4	6.25	7.50

Fig. 860

SIZES AND OTHER INFORMATION ON PAGE 168 DEDUCT 10% FOR PLAIN FINISH CHROMIUM PLATED Yacht Blocks - Price on Application

# BRONZE YACHT BLOCKS AND FITTINGS



FOR JIB SHEETS AND LAZY JACKS

A short block with thick sheave for large rope.

	No. 1 2	SINGLE ONLY For Rope Diam. Inches 1/2 3/8	Diam. Sheave Inches I ¹ /2 I ³ /4
)	No. 1 2	Plain Bushed Each \$3.50 4.50	

Deduct 10% for Plain Finish.



Deduct 10% for Plain Finish.

### Improved Centerboard Block POLISHED



Fig. 865

SINGLE ONLY Plain Bushed No. ach 0 \$1.50 1.75 2.50

Fig. 867

Deduct 10% for Plain Finish.

Centerboard Blocks GALV. MALLEABLE IRON AND BRONZE

1

2



No. 1 2	Galvanized Each \$.80 1.50	Bronze Each \$1.50 2.50	Pollshe Bronze Each \$2.00 3.00 items	Rope Inches 3/8 1/2	Size Sheave Inches 11/2x1/2 2 x5/8 CHROMIUM	Fig. 893 PLATED if desired — Price	1 2 3 on	Application	
---------------	-------------------------------------	----------------------------------	------------------------------------------------------	------------------------------	------------------------------------------------------------	---------------------------------------	-------------------	-------------	--



B

Bul	llet	Blocks	
		SHEETS AND	LEADERS
		SINGLE ONLY	7
		For Rope	Size
		Diam.	Sheave
lo.		Inches	Inches
D		510	3/4× 18
1 2 3		3/8 10 1/2	1/8×1/2
2		10	11/8×5/8 11/4×5/8
3		1/2	1/4 = 5/8
		Polished	
	No.	Bronze Each	
	0	\$ .65	
	ĭ	.80	
	2	1.00	
	3	1.00	

Deduct 10% for Plain Finish.

### Bullet Blocks On Snap Shackle

	FO	R JIB SHI	CETS
A	No. 0 1	For Rope Diam. Inches To 3/8	Lgth. Snap Shackle Inches 25/8 31/4
00	No. O 1	Polia Bro Per \$3. 4.	nse Set
	Deduct	10% for P	lain Finish.

Fig. 870

### **Open Lead Blocks**

	FOR	GENOA JIB	SHEETS
Fig. 868	No. 1 2	For Rope Diam. Inches ³ /8 ¹ /2	Size Sheave Inches 7/8 x 1/2 1 1/4 x 3/8
	No. 1 2	Pollshe Brouz Each \$2.0 3.0	e 10

Deduct 10% for Plain Finish.

**Bronze Block Shackles** 

8120

Inches

Plain

Each

.35

.40

.50

80

Pollshed

Each

.50

.55

.65

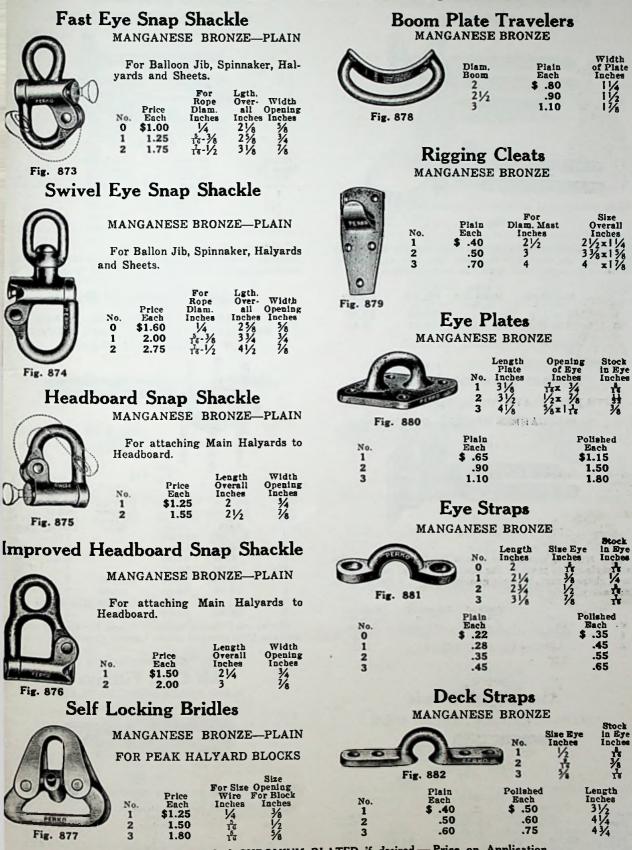
1.00

MANGANESE BRONZE

No.



# **BRONZE YACHT FITTINGS**



All above items furnished CHROMIUM PLATED if desired - Price on Application



Fig. 884

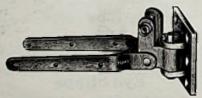
Boom straps are measured from outside to outside of straps, as they are mortised into the side of the boom so as to be flush with the boom surface.

No. I	Mast Diam. Inches 3 to 31/2	Diam. Boom End Inches   3/4	Fig. 883 Each \$4.00	Fig. 884 Each \$5.50
2	4 to 41/2	21/4	4.00	5.50

### **Bronze Gooseneck Band**

WITH FLAT PLATE FOR SQUARE OR T MASTS

MANGANESE BRONZE-PLAIN





The trend in design for masts is changing from the old style round mast to the modern square, rectangular or T shaped mast, hence a gooseneck with a flat plate is necessary.

No.	Price Each	Width of Plate Inches	Length of Plate Inches	Diameter Boom end Inches
1	\$4.00	2	3	13/4
2	4.00	3	4	21/4

# Gooseneck Bands



### Adjustable Gooseneck Bands

GALVANIZED DROP FORGED STEEL



Inside Diam, of	Without Belaying	With Four Belaying	Diam, of
Band	Pin Holes	Pin Holes	Screw
Inches	Each	Each	Inches
3	\$2.90	\$ 8.00	76
31/2	3.25	8.75	10
4	3.85	9.80	1/2
41/2	4.20	11.00	1/5

Larger sizes made to order.

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

### Socket Gooseneck Bands

GALVANIZED FORGED STEEL BANDS WITH MALLEABLE IRON BOOM SOCKET OR FORGED STEEL STRAPS

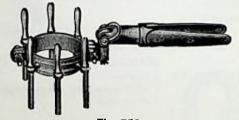


Fig. 758

Room

★In- side Dia, of Band Inches 3	Without Belaying Pin Holes Each \$ 7.00	With Four Belaying Pin Holes Each \$12.00	With Six Belaying Pin Holes Each	Inches 13/4	For Belay- ing Pin Dia. Inches ³ /8
31/2	8.00	13.00		2	3/8
4	9.00	14.00		21/4	3/8
41/2	9.50	16.00		21/4	3/8
5	10.00	18.00	\$20.00	21/2	3/8 1 15
6	12.50	20.00	21.00	3	14
7	14.50	21.00	23.00	31/2 to 41/2	V2
8	18.00	22.00	26.00	5	1/2 5/8

†Belaying Pins are not sent unless specifically ordered and are then charged extra. Larger sizes made to order.

### Jib Club Fittings MANGANESE BRONZE-PLAIN



Fig. 887

Allows club to be easily removed from jib stay.

No. 1 2	For Diam. Club Inches 11/2	Price Each \$3.75 4.25
3	2	4.75

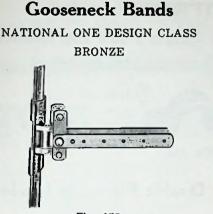


Fig. 452

Furnished complete as shown with 12 inches of nickel ilver mast track.

Slide is cast bronze, boom straps are wrought brass. This fitting is as light in weight as possible while etaining all necessary strength.

Plain Each \$2.50	Width Between Straps Inches 3/4	Length Inside Straps Inches 6	For Mast Track Inches 5⁄8	Weight Each Pounds 3/4
42.00	74	0	78	74

### Small Boat Gooseneck Bands

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 \$1.00	For Diam. Mast Inches 2 3⁄4	Length of Screw Inches 3 3/4	Diam. of Screw Inches 3/8	Weight Ounces 6
\$1.00	274	3 /4	78	0

### Spinnaker Pole Fittings

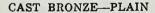




Fig. 587

The America's Cup Races proved the value of parachute spinnakers and resulted in an increasing demand for spinnaker pole fittings.

These are made of cast bronze and in two sizes for the largest variety of small boats.

No. Complete No. Each 1 \$3.00 2 4.50	For Diam. Pole Inches   ½   ½	For Diam. Mast Inches 21/2 4	Length Hook Inches 5 6	Weight Pounds 1 1⁄2	
------------------------------------------------	----------------------------------------------	---------------------------------------------	------------------------------------	---------------------------	--

As the mast band is made of high grade bronze it can casily be bent for smaller or larger masts.



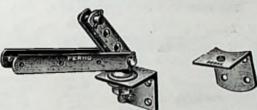
Furnished complete as shown with 12 inches of nickel silver mast track.

Slide is cast bronze, boom straps are wrought brass. Straps can be adjusted for booms smaller than 2 inch diameter.

Plain Each \$4.00	Width Between Straps Inches   3/4	Length Inside Straps Inches 6	For Mast Track Inches 5/8	Welght Each Ponnds 1
-------------------------	-----------------------------------------------	-------------------------------------------	---------------------------------------	-------------------------------

# "Snipe" Boom Fittings

BRASS STRAPS—BRONZE MAST PLATE



With Plate for Square Mast Plate for Round Mast

		Fig. 888		
Plain	Polished	Width	For	Weight
Brass	Brass	Plate	Boom	Each
Each	Each	Inches	Inches	Pounds
\$2.25	<b>\$3.00</b>	2	I to 11/2	1 1/2

When ordering, specify whether for square or round mast.

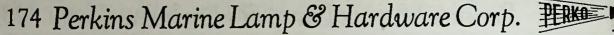
# Marconi Headboards

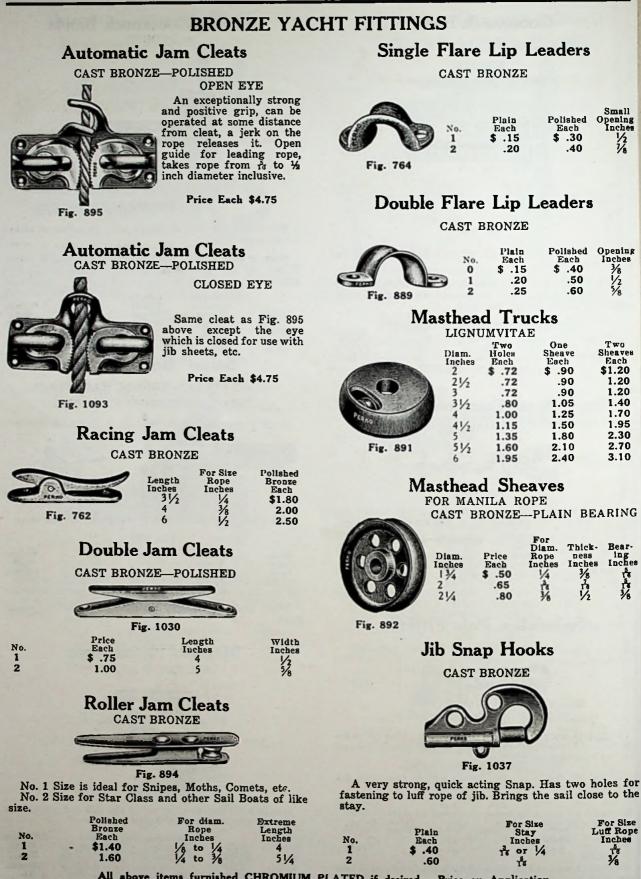


#### Fig. 462

Headboards improve the set of the sail and are almost indispensable on Marconi Rigs.

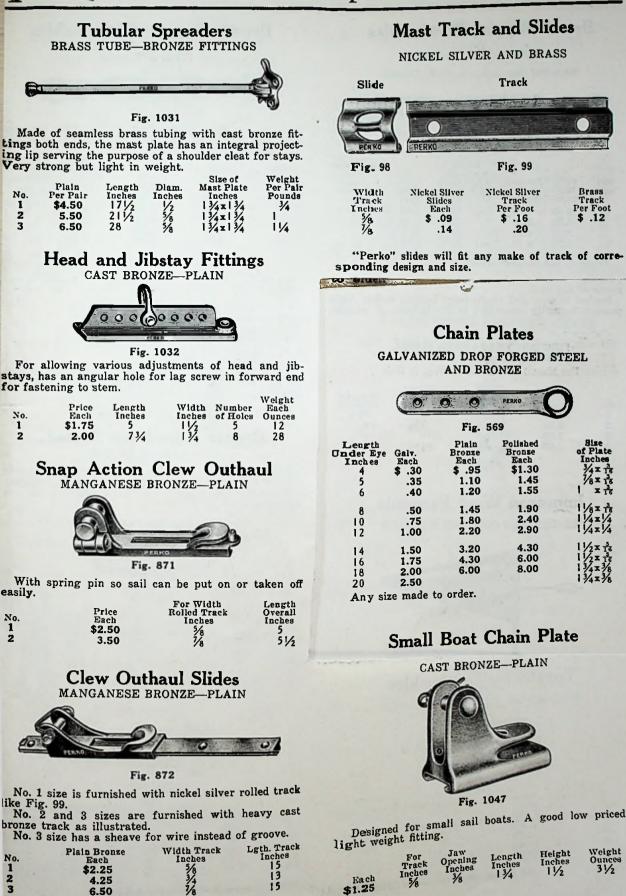
No. O	Each \$1.00	Measurements Inches 37/ax33/a	Weight Ounces 3	For Class Boat Star
1	1.25	41/4x31/8	5	Atlantic
2	1.75	51/2×51/4	7	6 Meter





All above items furnished CHROMIUM PLATED if desired --- Price on Application

Perkins Marine Lamp & Hardware Corp. 175



For Diam. Weight Strength as shown For Diam. Weight Wire Rope Each Inches Pounds 1/8 3/8 322 1/2 3/4 3/4 1/4 3/4 1/4 3/4 1/4 3/4 1/2 3/6 & 1/2 3/6 & 1/2 3/7
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
et unless otherwise e Sockets ONZE plicing wire rigging, stainless steel rigging. en socketing the wire
h Length e Overall Weight Inches Ounces 1 3/4 1 1 3/4 1 1 3/4 1 1 3/4 2 2 1/4 2 2 3/4 3
Diam. Length Pin Overall Weight nches Inches 1/4 1 3/4 1 1/4 1 3/4 1
E C ptie E

Perkins Marine Lamp & Hardware Corp. 177



Fig. 1035

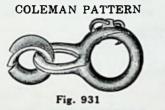
Furnished with a flush plug to screw in place when eye is removed.

For all leader blocks and other items requiring easy removal from deck.

No. 1 2	Polished Each Complete \$2.00 2.25	Inside Diam. Eye Inches 3⁄4 I	Diam. Thread Inches 1/2 1/2	Diam. Plate Inches 27/8 27/8
---------------	------------------------------------------------	-------------------------------------------	-----------------------------------------	------------------------------------------

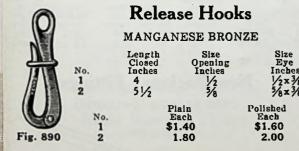
### Gaff Topsail Hooks





Size Inches	Price Each	Est. Wt. Each In Lbs.	Size	Price	Est. Wt. Each In Lbs.
14	\$ .60	14	1/2	\$1.20	3/4
Te	.65	ro	%	2.75	11/4
3%	.85	70	3⁄4	3.25	21/2
18	.95	5/8			

Sizes larger than %" furnished on application



### "Snipe" Chain Plates BRASS

### O Commenter (Description of the

Fig. 143

Plain Each	Polished Each	Size	Weight Ounces	
\$ .70	\$ .90	101/2=1=1/8	6	

Foot Rope Plates GALVANIZED DROP FORGED STEEL AND BRONZE

For Foot Ropes or Bowsprit Shrouds

		PERKO			
		Fi	g. 568		
Length		Plain	Polished		
Under Ey Inches	e Galv. Each	Bronze Each	Bronze Each	Size Iron Inches	Size Eye Inches
3	\$ .40	\$1.00	\$1.45	3/4 2 18	1/2
4	.50	1.10	1.55	1/1 × 1	5/2
5	.60	1.25	1.70	1´x1/4	3/4
6	.75	1.50	1.95	11/221/4	7/4
8	1.00	1.70	2.30	1/41/4	7/2
10	1.50	2.10	2.90	1 4x 1 .	1

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

### **Chain Plates**

GALVANIZED DROP FORGED STEEL AND BRONZE

	0	0 0	PERKO	
	-	Fig. 5	69	
Length Inder Eye Inches 4 5 6	Galv. Each \$ .30 .35 .40	Plain Bronse Each \$ .95 1.10 1.20	Polished Bronze Each \$1.30 1.45 1.55	Size of Plate Inches 3/4 x 1/3 7/8 x 1/3 1 x 1/3 1 x 1/3
8 10 12 14 16	.50 .75 1.00 1.50 1.75	1.45 1.80 2.20 3.20 4.30	1.90 2.40 2.90 4.30 6.00	$\frac{1}{8} \frac{1}{16} $
18 20	2.00 2.50	6.00	8.00	1 3/4 x 3/8 1 3/4 x 3/8

Any size made to order.

п

### Small Boat Chain Plate





A good looking dressy chain plate for sail boats up to about 20 feet long.

Plain Each \$.50	Polished Each <b>\$ .70</b>	Chromium Plated Each <b>\$1.00</b>	Length Inches 6	Thick- ness Inches	Weight Ounces 7
4.00	ΨΨ	+	•	74	4



# 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 attach-

Perfect balance and needle point bearing makes this pennant instantly responsive to the lightest of winds.

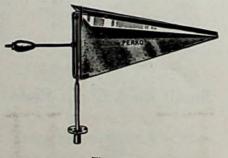
FURNISHED IN PAINTED FINISH, EITHER RED, BLUE OR WHITE

For Mast 1 Inch Diam. at Top, 🛧 Hole

No. 1 2 3	Painted Each \$2.10 2.60 3.50	Size of Pennant Inches 6 ¹ / ₂ x3 9 ¹ / ₂ x4 ¹ / ₂ 12 x6	Height Overall Inches 6½ 7¾ 10	Weight Ounces 21/2 4 10
-	4.50	15 x71/2		12
4	4.30	15 x/ y2	111/2	12

### **Improved Wind Pennants**

ADJUSTABLE COUNTER BALANCE



### 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 plain or painted finish. Painted colors are red, blue or white.

No. 5	Complete Each	Size of Pennant Inches	Height Overall Inches	Weight Ounces
	\$2.60	61/2x3	61/2	3
6	3.10	91/4 x 41/2	73/4	5
7	4.25	12 x6	10	111/2
8	5.40	15 x71/2	111/2	14

### **Ratchet Winches**

### POLISHED MANGANESE BRONZE

Of rugged construction, positive but simple action, can be used with wire as well as rope. The handles swing with a pump motion in a 130 degree arc. Power ratio about 8 to 1. On the top action type the handle is removable but snap catch prevents it dropping out accidentally.

### **TOP ACTION TYPE**



Fig. 800

Size No. 1 2 3	Each \$14.00 18.50 28.00	Handles Only Each \$2.25 3.50 4.75	For Dlam. Rope Inches 3/8 1/2 5/8	Weight Each Pounds 3 6 12
Size No. 1 2 3	Smallest Diam. Drum Inches 13/4 21/4 3	Height Inches 2 ³ / ₄ 3 4 ¹ / ₂	Diam. Base Inches 31/2 41/4 53/4	Radius Handle Inches 73/4 10 121/2

### **BOTTOM ACTION TYPE**

With Folding Handle-Not Removable



Size No. . 1 2	Price Each \$14.00 18.50	Minimum Drum Dia. Inches 1 7/8 2 3/8	Total Height Inches 31/4 4	Base Dia. Inches 4 5	Radius of Hdle. Inches 91/2 12	Suitable Dla. Rope Inches 3/8 1 or 1/2
-------------------------	-----------------------------------	-----------------------------------------------------	----------------------------------------	----------------------------------	--------------------------------------------	-------------------------------------------------------

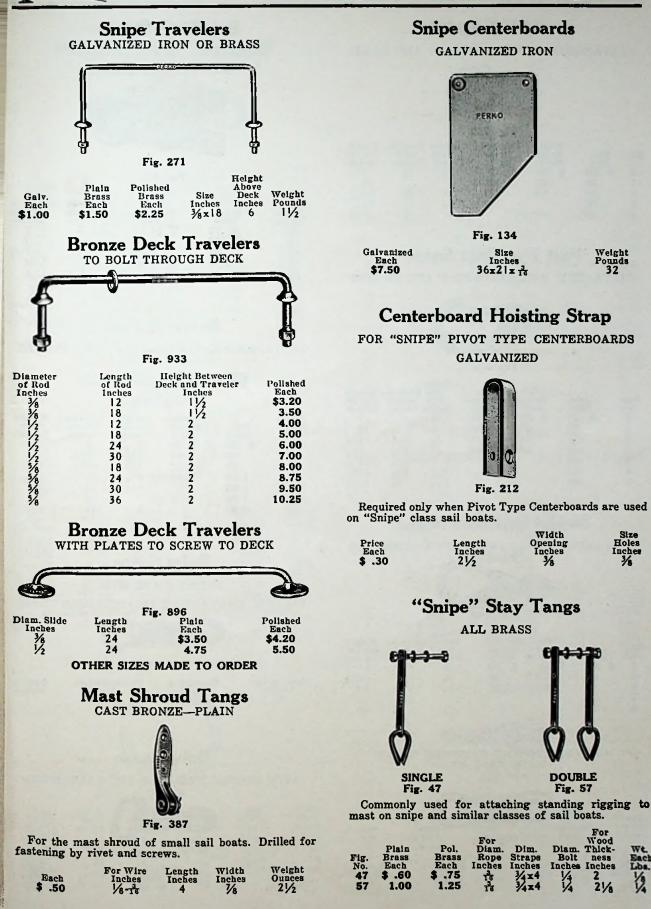
### New Backstay Fittings

# CAST BRONZE-POLISHED

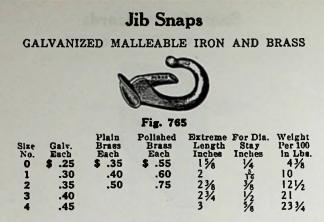
Fig. 1098

For quick release of backstay this fitting can't be beat. Turnbuckles are unnecessary. Complete with socket for ½ inch rigging. A set consists of fittings for port and starboard. Illustration shows ½ set.

Per	Length	Base	For Rigging	Weight
Set	Inches	Inches	Inches	Pounds
\$7.50	121/4	31/4x2	up to Ta	11/2
\$7.50	121/4	31/422	up to Te	1 1/2



180 Perkins Marine Lamp & Hardware Corp.



### Fast Eye Boat Snaps

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 612

Size No.	Galv. Each \$ .25	Plain Bronze Each \$.35	Polished Bronze Each \$.55		Extreme Length Inches 2	Weight Fer 100 Pounds 5
1	.30	.40	.60	3%	23/4	10
2	.35	.50	.75	3/4	31/2	131/4
3	.40	.65	1.00	3/	31/4	261/4
4	.45			1	41/4	271/2
5	.50			11/4	4%	43 1/4
6	.60			11/4	51/4	561/4

# Swivel Eye Boat Snaps

GALVANIZED MALLEABLE IRON AND BRONZE



Size No. 1	Galv. Each \$.50	Plain Bronze Each \$.60	Polished Bronze Each \$.75	Inside Diam. Eye Inches ⁵ /8	Extreme Length Inches 31/4	Weight Per 100 Pounds	
2	.60	.70	.85	3/4	31/4	161/4	
3	.75	.90	1.25	1/8	43/4	32	
4	.90			I.	51/4	37	
5	1.10			11/4	6	60	

### Baby Snaps GALVANIZED AND POLISHED BRASS WITH FAST EYE



Galvanized Each \$.05

Eye Inches

Fig. 842 Polished d Brass Each

Length Inches 17/8

**Bob Stay Straps** 

GALVANIZED DROP FORGED STEEL AND POLISHED BRONZE



Fig. 803

Diam. of Metal in Eye Inches	Galvanized Each	Pol. Bronze Each \$1.10	Overall Length Inches	Length of Strap Inches 2
₹ <b>%</b>	\$ .75	· · · ·	2	4
716	.85	1.40	4	3
Ÿ2	.95	1.70	5	31/2
5/2	1.10	2.80	6	4
3/4	3.40	+++++++++	8	5

### **Belaying Pins**

### GALVANIZED MALLEABLE IRON AND BRONZE

	-		VALUE		
		Fig.	366		
Diam. Shank nches 3/8 1/2	Galv. Each \$ .40 .60	Polished Bronze Each \$1.60 1.95	Length Head Inches 3	Extreme Length Inches 8 91/3	Weight Each Pounds 3/8 3/4
5/8	.80 1.00	2.70 3.40	33/4	101/4	134
1/2	1.40 1.70 2.00		61/2 7 8	15 16 19	$\frac{2}{3}$ $\frac{3}{2}$

### **Baby Snaps**

WITH SWIVEL EYE ELECTRO GALVANIZED AND POLISHED BRASS



Fig. 1042

Fig. Galvanized

Diam. of eye Inches ³/8

Size of eye

H x 1/4

S

Polished brass Each \$.18

Length Inches 2

# Baby Snaps

\$ .10

WITH OBLONG EYE ELECTRO GALVANIZED



Fig. 1041 Galvanized Each \$.05

Inches 1%



Diam.	Une	1.00	Three	rour
Inches	Eye	Eye	Eye	Eye
11/4	\$ .90	\$ .90	\$1.50	\$1.50
11/2	.95	.95	1.55	1.55
13/4	1.00	1.00	1.65	1.65
2	1.10	1.10	1.80	1.80
21/4	1.25	1.25	2.00	2.00
21/2	1.40	1.40	2.20	2.20
3	1.55	1.55	2.40	2.40
31/2	1.70	1.70	2.60	2.60
4	1.85	1.85	2.80	2.80
41/2	2.10	2.10	3.00	3.00

No extra charge for bronze bands.

#### Mast Hoops GALVANIZED WROUGHT IRON



		rig.	043		
Size Inches	Price Per 100	Weight Per 100 In Lbs.	Size Inches	Price Per 100	Weight Per 100 In Lbs.
2 x 1/4	\$ 6.00	101/2	5x 1/4	\$14.00	24 1/2
21/3 x 1/4	8.00	121/2	6x 1/4	15.00	30
3 x ¼	8.50	15	7x1/4	16.00	341/2
31/2×1/4	10.00	17	8x 1/4	18.00	39
4 x1/4	13.00	20	9x 1/4	21.00	44
4 ½ x ¼	13.50	221/2	10x¼	25.00	49

Measure in clear, special size made to order.

#### Jib Rings

#### GALVANIZED WROUGHT IRON



ig	397	

Size Inches frx11/2 frx2 frx2 /6x2 /6x2 /6x2 /6x2 /6x2 /6x2 /2	Price Each \$ .21 .22 .23 .24 .25 .25	Size Inches 3/8 x 3 3/8 x 3 1/2 1/2 x 3 1/2 x 3 1/2 1/2 x 4 1/2 x 5	Price Bach \$ .28 .30 .40 .43 .48 .50	Size Inches 1/2x6 3/6x3 3/6x3 3/6x3 3/6x4 3/6x5	Price Each \$ .55 .60 .65 .70 .80	Sise No. 5 6 7 8	Galv. Bach \$ .04 .05 .07 .12	Plain Brass Each \$ .05 .08 .10 .14	Diam. Leng of Und Eye Shou Inches Inc ⁵ ¹⁸ ³ / ₈ ¹ / ₂ ⁵ / ₈
-------------------------------------------------------------------------------------------------	------------------------------------------------------------	------------------------------------------------------------------------------------------	------------------------------------------------------------	----------------------------------------------------------------------	-----------------------------------------------------	---------------------------------	----------------------------------------------	-------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

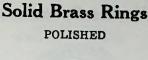




Fig. 417

Thickness Inches	Inside Diam. Inches	l'er Dozen	Thickness Inches	Inside Diam. Inches	l'er Dozen
$\frac{\frac{5}{32}}{\frac{5}{32}}$	1/2 5/8	\$ .60 .60	1/4 1/4	1 3⁄4 2	\$3.00 3.25
3 <u>5</u> 3 <u>5</u> 3 <u>5</u>	3/4 7/8	.70 .85	1/4 1/4	21/4 21/2	3.75 4.00
3 ⁵ 9 3 ⁵ 9	1 1 1⁄8	1.00 1.20	5 हि 1 व	1 3⁄4 2	4.50 4.80
3 3 7 5 2	11/4	1.35 1.50	15 15 15	21/4 21/2	5.20 5.70
1 32 1/4	1 1/2 1 1/2	2.00 2.50	5 10 15 16	23⁄4 3	6.00 6.50

#### Lacing Eyes

GALVANIZED MALLEABLE IRON AND BRASS REGULAR



Fig. 766

Size No. 1 2	Galv. Each \$ .04 .05	Plain Brass Each \$.05 .08	Inside Diam. of Eye Inches	Length Under Eye Inches 1 1 1/8	Weight Per 100 in Lbs. 1 ½ 3 ¼ 9 ¼
3	.07	.10	1 a	11/2	81/8
4	.12	.14	14	2	111/4

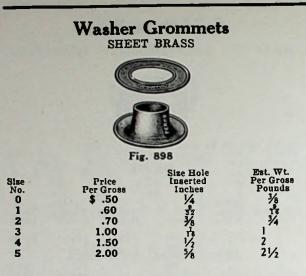
#### WITH SHOULDER



Fig. 767



gth der ilder



#### **Spur Grommets**

#### BRASS TUBES AND TOPS-ROLLED RIM



Fig. 899

Est. Wt. Per Gross

21/231/233/8558

oundi

No.

1234

11 15

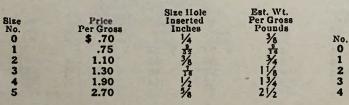
Price Per Gross	Size Hole Inserted Inches
\$ 1.55	1/4
1.75	TT
2.25	3/8
2.60	3/8 1-8
3.50	<b>3</b> 1
4.60	5/8
6.00	3/4
15.00	18
17.50	1 16

### **Teeth Grommets**

SHEET BRASS



Fig. 900



#### Conical Point Grommets CAST BRASS TOPS—ROLLED RIM TUBES





	r. 1067	
Per Gross \$ 3.00 3.70 4.90	Size Hole Inserted Inches 3/8 Te P	Weight Per Gross Pounds 21/4 21/2 37/4
7.00	5/8	51/4
15.50	2/4 15 1	101/4
	\$ 3.00 3.70 4.90 7.00 8.50	Inserted           Per Gross         Inches           \$ 3.00         \$\frac{3}{6}\$           3.70         \$\frac{1}{6}\$           4.90         \$\frac{1}{6}\$           7.00         \$\frac{3}{6}\$           8.50         \$\frac{3}{4}\$           15.50         \$\frac{1}{6}\$

Inserted with Die Fig. 1572, Style B.

#### **Eyelet Grommets**

#### STAMPED BRASS



	Fig. 1068		
		I. D. Hole	Weight
Den Garage	Size	Inserted	Gross Ounces
Per Gross	Inches	Inches	A
\$ .60	18	1/4	7
.75	1/2	Ť	6
1.00	5/8	3/8	9
1.60	3/4	1/2	14
			Pounds
2.40	7/8	5/8	1
3.50	1	11	11/8
5.75	11/8	13	2 1/8
6.25	11/4	1/8	3
8.50	13/8	1	31/4
10.00	11/3	11/4	43/4
11.50	13/4	11/2	51/2
29.00	21/2	2	9

#### Grommet Hole Cutters FORGED STEEL



Fig.	903	
Price Each \$ .80 .80	No. 5 6	Price Each \$1.50 2.75
.80	7	3.00
1.00	8	3.25
1.25		

#### **Junior Grommet Dies** CAST IRON

For inserting Brass Washer and Teeth Grommets

	Fig. 901	Weight
Size		Each
No.	Each	Lbs.
0	\$1.15	3/4
1	1.30	3/4
2	1.80	1
3	2.00	11/8

This die is not guaranteed and not for commercial se, a useful, inexpensive tool for those who have only few grommets to insert.

**Curtain Fasteners** 

WROUGHT BRASS

Fastener Fig. 995



Evelet Fig. 996



Washer Fig. 997

Made of stamped brass, for single and double curtains, fastener base size is  $14x\frac{1}{2}$ .

Complete with Eyelet and Washer-per	Single	Double
gross\$	11.00	\$14.00
Fastener Only—per gross	9.00	12.50
Eyelet Only-per gross	1.50	1.50
Washer Only-per gross	.90	.90

Fig. 902

			Weight
lze	Style B	Style C	Each
	Each	Each	Lbs.
0	\$3.00	\$2.70	11/4
1	3.20	2.90	13/8
2 3	3.30	3.00	13/8
3	3.50	3.20	1 16
4	3.70	3.40	2 3/8
5	4.00	3.70	25/8
6	4.20	4.10	31/2
7	4.50		33/4
3	4.80		5

Use a wooden mallet with above dies.

#### **Grommet Hooks**



Fig. 1000

CAST BRONZE

Plain

Bronze Per Dozen

\$ .80

Polished

Bronze Per Dozen

\$1.25

#### **Grommet Rings**

MALLEABLE IRON-GALVANIZED INSIDE MEASUREMENT



Fig. 1002

	light	Heavy		
Inside Diam.	Price	Inside Diam.	Price	
Inches	Per Gross	Inches	Per Gross	
1/4	\$ .60	1/2	\$ 1.00	
6	.60	5/8	1.25	
3/6	.60	3/4	2.00	
íz	.85	7/8	2.25	
5%	1.15	1	2.50	
3/4	1.25	11/8	4.00	
1/8	1.75	₹ 1 <u>1/4</u>	5.25	
1	2.00	11/2	7.00	
11/2	3,80	13/4	9.00	
i 🖍	4.00	2	14.00	
iß	6.75	21/4	16.00	
13/4	8.25	21/2	18.00	
2	9.00	3	21.00	

11/2 inch and smaller are packed in boxes of 1 gross each. 1%, 2 and 2¼ inch are packed in boxes of 1/2 gross each.

21/2 and 3 inch are packed in boxes of 1/4 gross each.

Senior Grommet Dies FORGED STEEL

Style B for inserting Spur Grommets Style C for inserting Washer and Teeth Grommets







Fig. 414

Pole can be set at any desired angle, has swivel base plate and hinged socket.

Cast bronze fittings are good and heavy to prevent breakage, socket is extra long and reinforced on the outer end to prevent splitting.

Per Pair <b>\$10.00</b>	Inside Diam. Socket Inches   7/8	Length Socket Inches 10	Diam. Plate Inches 3	Weight Pair Pounds 63⁄4

#### Swivel Outrigger Pole Holders

MANGANESE BRONZE-PLAIN

LIGHT PATTERN



Fig. 415

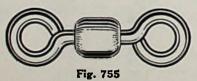
For mounting on deck or side of deck house. The double hinged straps and swivel flange will allow the pole to be set at any desired angle. The entire fitting being made of cast manganese because gives moving attended and minimum scients.

bronze gives maximum strength and minimum weight.

For           Diam.           Per         Pole           No.         Pair         Inches           1         \$6.00         1 1/4           2         7.00         1 1/2	Length Straps Inches 4 53⁄4	Diam. Flange Inches 21/4 23/4	Weight Pair Pounds 1 2	
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------	-------------------------------------------	------------------------------------	--

#### **Brass Fishing Swivels**

HEAVY DUTY TYPE-EXTRA STRONG



#### **Illustration is Actual Size**

Will not crystalize in salt water. Will stand several hundred pounds pull. Provides maximum tensile strength in a swivel of this type. Packed in quarter gross boxes.

13.35

#### Weight ounde

#### Sword Fish Darts

PLAIN CAST BRONZE



Fig. 805

Length Inches

5

Price Each \$0.40

Weight Per 100 In Pounds 31

#### Dart Shank

IRON SHANK-CAST BRONZE SOCKET



Fig. 655

Length o	overall, 24 inches;	Weight, 11/4	pounds.
Price each			\$1.50

#### Sail Makers Needles

FORGED CAST STEEL-POLISHED

LONG	SQUARE
------	--------

PERRO

25%

No. 17 16 15 15 ¹ / ₂ 14 14 ¹ / ₂ 13	Price Per 100 \$2.10 2.10 2.10 2.25 2.50 2.95	Length Inches 21/4 21/2 25/2 25/8 25/8 23/4 3	No. 12 11 10 9 8 7	Price Per 100 \$ 3.75 5.00 6.20 7.40 9.95 12.40	Length Inches 3 1/4 3 5/6 3 3/4 4 4 4 1/2 4 3/4
		REDUCE	ED EDGE		
No. 17 16 ¹ /2 16	Per 100 \$3.35 3.35 3.35	Length Inches 21/4 25/8 21/2	No. 15 14½ 14	Per 100 \$3.35 3.75 3.45	Length Inches 21/2 23/4 25/8

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

13

25%

3.35

151/2

Sailors Seaming Palms FULL HIDE MOUNTED

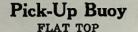


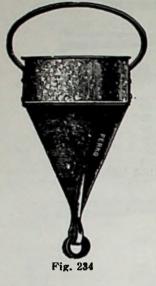
Fig. 411

Righ	t Hand	, Pe	r Dozei		4.25
Left	Hand,	Per	Dozen	***************************************	4.70



¥ .





Heavy galvanized iron, double seamed and soldered.

Wrought iron handle riveted to body, large eye on bottom and rope thimble. Every buoy fully tested before it leaves our factory.

Measurements do not include handle or eye.

No.	Size Inches	Weight Lbs.	Price Each
1	9x14	4	\$4.00
2	12 <b>x1</b> 8	5	4.75
3	13 <u>x22</u>	7	5.75

#### Cone Mooring Buoy GALVANIZED

Heavy galvanized iron, iron pipe running all the way through buoy, heavy galvanized % inch buoy rod through pipe allowing body to swivel, eye on top, swivel on bottom, body grooved for bumper, which is of heavy 1½ inch outside diameter rubber hose.

Heavy Duty Mooring Buoy

RIVETED BODY-GALVANIZED

**Å** 

Fig. 370

tom non	Swivei—sa	me prices
Size Inches	With Bumper Each	Without Bumper Each
16 x 24	\$15.00	\$11.00
20 x 30	18.00	14.00
<b>2</b> 4 x 36	24.00	20.00
30 x 36	26.50	24.00

Can also be furnished with

welded eye bolts top and bot-

Size does not include swivel or eye.

Can also be furnished with % inch diameter buoy rod and swivel—add to above prices \$3.50 each.

## Pick-Up Buoy

CONE TOP



Heavy galvanized iron, double seamed and soldered. Wrought iron handle riveted to body, large eye on bottom for rope.

**Fully Tested** 

Measurements do not include handle or eye.

No.	Size Inches	Weight Lbs.	Price Each
4	13x22	5	\$3.00
5	16x24	6 1/2	4.00

Fig. 235

Fig. 445

#### Hold Fast Buoy A REAL MOORING BUOY FOR SMALL BOATS AT A LOW PRICE

A heavy gauge galvanized sheet iron body, a % 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. 1 2	Pr Ea \$10. 13.	ch .00	Diam. Body Inches 13 17	Length Body Inches 22 27
	Length Overall Inches 331/2 381/2	Inside Diam. Eye Inches 3 3	Welg	ht ds



Extra heavy construction, all riveted. % inch wrought iron buoy rod through center, eye on top, swivel on bottom, grooved to take heavy rubber bumper. Bumper is 1½ inch outside diameter heavy hose, outlet in bottom for draining.

Size Inches	With Bumper Each	Without Bumper Each
24 x 36	\$34.00	\$30.00
30 x 36 36 x 42	38.00 46.00	34.00 42.00
10 x 48	52.00	48.00

Fig. 551

Measurements do not include swivel or eye.

### Galvanized Buoy Rods

COMPLETE AS ILLUSTRATED

(DE RANG		$\supset$
-	Fig. 278	
Diam. Inches 1/2 1/2 3/8 3/8 3/8	Length Under Eye Inches 18 20 24 30 331/2	Price Bach \$1.00 2.00 2.50 2.75 4.00
200 200 200 200 200 200 200 200 200 200	371/2 431/2 371/2 431/2 52	4.25 4.50 7.00 7.50 8.00

#### **Racing or Marking Buoys**

GALVANIZED STEEL



Fig. 965

With 1¹/₄ inch diameter flag pole socket in top of body, and galvanized handle for picking up. Large eye on bottom for anchor line.

No.	Each	Size Inches	Weight Pounds
1	\$4.00	13x22	51/2
2	5.00	16x24	7 -

Size shown does not include handle or eye.

#### Patent Gypsy Windlass

PAINTED FINISH

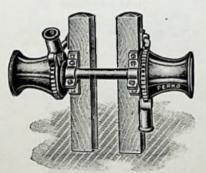


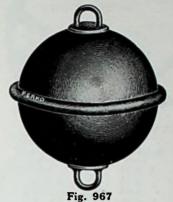
	Fig	. 96	6		
Full	Windlass	has	Two	Heads	
Half	Windlass	ha	One	Head	

					Diameter
Size	Half Windlass Each	Full Windlass Each	Bitts Inches	Length of Head Inches	of Hend on End Inches
E	\$10.50	\$15.50	6	51/4	41/2
D	11.50	17.00	8	6	5
С	13.50	19.00	10	61/2	71/2
B	17.00	24.00	12	7	71/2
0	24.00	30.00	12	8	81/2
1	27.00	40.00	14	91/2	10
2	31.00	53.00	16	12	111/2
21/2	42.00	71.00	18	13	13

Galvanized Windlasses-Price on Application

## Perko Steel Mooring Buoy

14 GAUGE—21 INCH DIAMETER HEAVILY WELDED—TESTED



Perko Steel Mooring Buoys are made from new modern tools and dies therefor contain no wrinkles or distortions in shape.

They are constructed of new material protected by a heavy coat of paint. They are free of rust and not to be confused with surplus stock buoys on the market.

The eyes are riveted and welded to a heavy plate which is welded to the body of the buoy.

A heavy steel band is welded to the inside of each hemisphere at the joint which is also heavily welded.

Furnished with or without bumper which is 11/2 inch diameter heavy rubber hose.

Without With Insti- Diam. Bumper Bumper Eye Inches Each Each Inch 21 \$12.00 \$16.00 21/2	es Inches Pounds
----------------------------------------------------------------------------------------------------	------------------

#### **Enos Windlass**

#### GALVANIZED-BRONZE

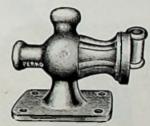


Fig. 964 Est. Wt. Each Width Polished Bronze Each \$25.00 Galvanized Height Inches Overall Inches Bronze in Lbs. Size No. Each \$10.50 0 27 46.00 1 18.75 101/2 34 2 20.80 54.00 131/2 58 29.00 71.00 Est. Wt. Each Galv. in Lbs. Diam. Drum Inches 21/2 31/4 31/4 41/2 Size Size Size Size Size Bolts Inches 5/8 5/8 5/8 3/4 Size Rope Inches 5/8 3/4 7/8 11/8 Chain Inches Size No. 0 1 Inches 11 25 14 14 14 31 2 53



	Fig.	149	
Weight Pounds	Galvanized Each	Self Colored Each	Length Inches
5	\$ 3.10	\$ 2.90	16
8	3.40	3.10	23
10	3.60	3.20	24
12	4.25	3.75	27
15	4.60	4.00	28
20	5.00	4.25	31
25	5.60	4.60	33
30	6.40	5.20	34
35	7.40	6.00	37
40	8.50	7.00	40
50	10.50	8.50	42
60	13.50	11.00	45
75	16.50	13.50	45
100	22.50	18.50	51
125	29.00	24.00	52
150	35.00	29.00	551/2
200	47.00	39.00	621/2
250	58.00	48.00	64
300	70.00	58.00	65
	Larger Sizes-P	rice on Applicati	on

#### Navy Type Anchor

DROP FORGED SHANK-GALVANIZED



-	-
Fig.	45

Drice	I Weight	Price		Fig.	174	
Each \$1.50	Pounds 50	Each \$ 9.50	Weight Pounds	Price Each	Weight Pounds	Price Each \$ 9.50
3.00	80	15.00	10	2.30	60	11.00 15.00
3.75	100	18.50			100	18.50
4.75 5.50		23.00 27.50	25	4.75	125	23.00 27.50
6.50	200	37.00	35	6.50	200	37.00
	\$1.50 2.30 3.00 3.75 4.75 5.50	Each         Pounds           \$1.50         50           2.30         60           3.00         80           3.75         100           4.75         125           5.50         150           6.50         200	Each         Pounds         Each           \$1.50         50         \$9.50           2.30         60         11.00           3.00         80         15.00           3.75         100         18.50           4.75         125         23.00           5.50         150         27.50           6.50         200         37.00	Each         Pounds         Each         Weight           \$1.50         50         \$ 9.50         Pounds           2.30         60         11.00         5           3.00         80         15.00         10           3.75         100         18.50         20           4.75         125         23.00         25           5.50         150         27.50         30           6.50         200         37.00         35	Price         Weight         Price           Each         Pounds         Each         Weight         Price           \$1.50         50         \$ 9.50         Pounds         Each           2.30         60         11.00         5         \$1.50           3.00         80         15.00         10         2.30           3.75         100         18.50         20         3.75           4.75         125         23.00         25         4.75           5.50         150         27.50         30         5.50           6.50         200         37.00         35         6.50	Each         Pounds         Each         Weight         Price         Weight           \$1.50         50         \$9.50         Pounds         Each         Pounds         Each         Pounds           2.30         60         11.00         5         \$1.50         50           3.00         80         15.00         10         2.30         60           3.75         100         18.50         20         3.75         100           4.75         125         23.00         25         4.75         125           5.50         150         27.50         30         5.50         150           6.50         200         37.00         35         6.50         200

Government Tolerance in Weight, Plus or Minus 5%

Non-Fouling Anchor GALVANIZED DROP FORGED STEEL



Fig. 236

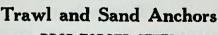
The result of a great deal of experimenting and testing, the flukes are designed to bite and hold on the first pull of the cable, a weldless reinforcing under each fluke will prevent bending or breaking under maximum strain.

Weight Pounds 15	Galv. Each \$ 4.80	Length Overall Inches 29
25	6.00	36
35	8.00	40
42	9.50	41
50	11.25	43
60	14.50	441/2
75	17.50	461/2
100	24.00	50
125	31.00	521/2
150	37.50	59
200	50.00	65

## Swivel Anchors







DROP FORGED STEEL FAST STOCK



Fig. 364

Galvanized Each	Self Colored Each
\$ 2.15	\$ 1.95
2.50	2.15
2.65	2.25
3.10	2.60
3.40	2.80
4.20	3.40
5.15	4.20
6.10	4.90
7.15	5.75
8.20	6.60
10.50	8.50
13.00	10.50
16.50	13.50
22.50	18.50
	Each \$ 2.15 2.50 2.65 3.10 3.40 4.20 5.15 6.10 7.15 8.20 10.50 13.00 16.50

#### LOOSE STOCK

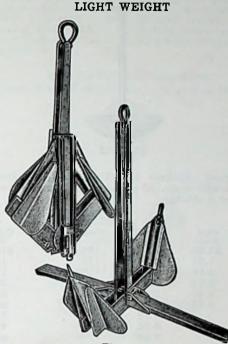


Fig. 365

Weight Pounds	Galvanized Each	Self Colored Each
5 8	\$ 3.10	\$ 2.90
8	3.40	3.10
10	3.60	3.20
12	4.25	3.75
15	4.60	4.00
20	5.00	4.25
25	5.60	4.60
30	6.40	5.20
35	7.40	6.00
40	8.50	7.00
50	10.50	8.50
60	13.50	11.00
75	16.50	13.50
100	22.50	18.50

Note: All anchors are subject to government tolerance of plus or minus 5% in weight. Northill Anchors STAINLESS STEEL OR GALVANIZED

TREMENDOUS HOLDING POWER



#### Fig. 441

Northill Anchors are scientifically designed to hold!---Irrespective of weight.

Northill Anchors have an average holding power of 60 times their own weight—as compared to averages ranging from 2½ to 1 or 8 to 1 in other styles.

Northill Anchors save weight, space, time and physical effort.

Widely used by the U. S. Navy and foreign governments.

In the Northill Anchor a new design of fluke has been developed that buries itself in the bottom because of its shape and proportion alone.

When not in use it folds compactly and is easily stowed away.

The comparative table below has been compiled from data of the Bureau of Construction and Repair, U. S. Navy; from exhaustive tests of Pan-American Airways and other authorities.

Anchor	Weight of Navy Anchor Ratio
7 to 1	21/2 to 1
Pounds	Pounds
35	96
100	300
175	650
260	720
425	1200
700	1900
	of Kedge Anchor Ratio 7 to 1 Pounds 35 100 175 260 425

Type No. indicates approximate weight.

NOTE—A 12 pound Northill Anchor outholds a 300 pound navy type stockless anchor.

Formula to determine required anchor holding power for various type craft:

Power Cruiser Types-7% of gross weight.

Motor Boat Types-6% of gross weight.

Sail Boats (centerboard types)-5% of gross weight. Sail Boats (keel types)-10% of gross weight.

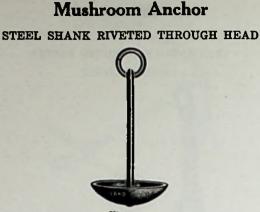


Fig. 142

Mushroom Anchors to 35 pounds inclusive are equipped with rings. 50 pounds and larger have eye in shank for a shackle.

		Self [		Self
Weight	Galv.	Colored	Weight	Colored
Pounds	Each	Each	Pounds	Each
5	\$1.35	\$1.15	100	\$10.00
8	1.95	1.70	125	12.50
10	2.10	1.75	150	15.00
15	2.75	2.25	200	20.00
20	3.40	2.70	250	25.00
25	4.25	3.40	300	30.00
35		4.75	350	35.00
50		5.00	400	40.00
75		7.50	450	45.00
			500	50.00

## **Grapnels** GALVANIZED DROP FORGED STEEL FIVE PRONG

PERKO



Fig. 207

Weight Pounds	Galvanized Each	Weight Pounds	Galvanized Each
4	\$1.70	12	\$2.95
5	1.75	15	3.25
6	1.85	81	3.90
8	2.10	20	4.25
10	2.25		

Larger sizes-prices on application.

#### **Grappling Irons**

GALVANIZED DROP FORGED STEEL



Weight Pounds 11/2

Weight Pounds 7

11 15 6

Height Inches 71/2

Each

\$1.70

Width Inches 6

Number of Prongs 4

### **Anglers** Anchor

FOR SMALL BOATS



Jalvanized Each \$1.70	Japanned Each \$1.50	Diameter Inches 6	Height Inches 8
2.10	1.75	7	9
2.75	2.25	8	10

## Folding Anchors

GALVANIZED MALLEABLE IRON

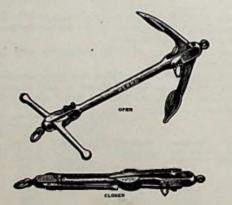


Fig. 226

10     4.80     23     45     19.00     38       12     5.60     25     55     23.00     41       15     6.80     28     76     31.00     44       20     8.80     30     25     10.80     33	15 20	6.80 8.80	28 30		23.00	41
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------	--------------	----------	--	-------	----

### **Anchor Trip Hooks**

CAST BRONZE-PLAIN



A fine grade, heavy bronze Hook of great tensile strength. Hook is held in working position by positive locking device with cotter pin on chain to prevent acci-dental tripping. A pull on the tripping lever when cotter is removed immediately releases hook as shown by dotted lines.

No. 1 2		Length Inches 5 51/2	Diam. Hook Inches ⁵ /8 3/4	For Block Inches 31/2 4	Welght Pounds 1 1½
---------------	--	-------------------------------	---------------------------------------------------	-------------------------------------	-----------------------------

### Anchor Balancing Bands

GALVANIZED DROP FORGED STEEL



Usually used on kedge or non-fouling anchors. One of these bands placed about the anchor shank at center of gravity is of great aid in handling.

No.	Each	Anchors Weighing Pounds
1	\$2.50	25 to 100
2	3.50	125 to 200

#### **Anchor Keys**

GALVANIZED DROP FORGED STEEL



#### Fig. 1096

Used for locking the stock in loose stock anchors such as kedge, non-fouling and sand.

Size No.	Each	Length Inches	For Anchor Weighing Pounds
1	\$ .10	13/4	5 to 8
2	.15	21/3	10 to 20
3	.20	31/4	25 to 40
4	.25	413	50 to 60
5	.25	45/2	75 to 100
6	.25	43/4	125 to 150
7	.35	6	200 to 350
8	.55	61/4	400 to 550

#### **Anchor Chocks** CAST BRONZE-PLAIN

Made for the purpose of keeping the anchor in a set place on deck ready for instant use, and to prevent the damage caused by an anchor not fastened down when a rough, choppy stretch of water is encountered. Many boat owners have suffered wasteful expense repairing gouged decks, ventilators, hatch covers, etc., because they neglected to install anchor chocks for their deck anchors

deck anchors.

FOR NAVY TYPE ANCHORS For all sizes of anchors up to 60 pounds inclusive.

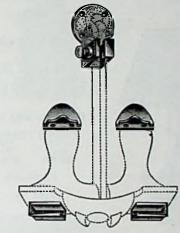
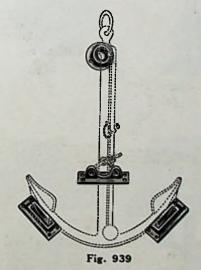


Fig. 938

Consists of 5 pieces illustrated. Lashing is unneces-sary as the head of shank is locked in place by an over-

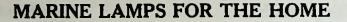
FOR KEDGE AND NON FOULING ANCHORS

For all sizes of kedge anchors up to 60 pounds inclusive. For all sizes of non fouling anchors up to 75 pounds inclusive



Consists of four pieces illustrated, including the fit-ting for lashing down, which has two eyes large enough

for % inch rope. Anchor does not touch deck at any point. Price Per Set of 4 Pieces



A beautiful assortment of table lamps and fixtures for the homes of yachtsmen and others who desire the savor of the sea in their home decorations.

What would be more appropriate in yacht clubs, marine decorated dens or basements, as trophies for boat or yacht races, and especially in any room or office where pleasure or business has some connection with the sea and vessels that sail upon it.

All shades are hand painted in beautiful colors on parchment, leather laced.

All bases are brass and bronze, highly polished and lacquered.

All lamps wired with 6 feet silk covered cable and plug attached.



Fig. 1126

"SEA FOAM"

Ht. Overall, 12½ in. Diam. Shade, 9 in. Diam. Base, 5¼ in.

Complete with Shade Pollshed Chromlum Brass Plated Each Each \$8.50 \$10.00 Shades Only Each

Each \$2.25

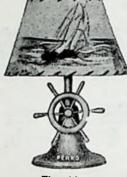


Fig. 1129

#### "MARINER"

PERKO

Ht. Overall, 12½ in. Diam. Shade, 9 in. Diam. Base, 5¼ in.

Complete with Shade

Polished Chromium Brass Plated Each Each \$10.00 \$12.00

> Shades Only Each \$2.25



Fig. 1127



Fig. 1128

#### "BELL BUOY"

Ht. Overall, 12½ in. Diam. Shade, 9 in. Diam. Base, 5¼ in.

Complete with Shade

Polished Chromium Brass Plated Each Each \$8.50 \$10.00

> Shades Only Each \$2.25

#### "SEA WAY"

Ht. Overall, 12½ in. Diam. Shade, 9 in. Diam. Base, 5¼ in.

Complete with Shade

Polished Chromium Brass Plated Each Each \$8.50 \$10.00

> Shades Only Each \$2.25



Fig. 1130



#### "HATTERAS"

With green fresnel lens, additional socket inside lens, with switch.

Ht. Overall, 13 in. Diam. Shade, 10 in. Diam. Base, 6 in.

**Complete with Shade** 

Polished Chromium Brass Plated Each Each \$10.00 \$12.00

> Shades Only Each \$2.25

#### "VENTURA"

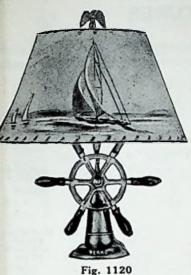
Ht. Overall, 13½ in. Diam. Shade, 9 in. Diam. Base, 3½ in.

#### Complete with Shade

Polished Chromium Brass Plated Each Each \$8.50 \$10.00

> Shades Only Each \$2.25

#### Perkins Marine Lamp & Hardware Corp. 193 EPER



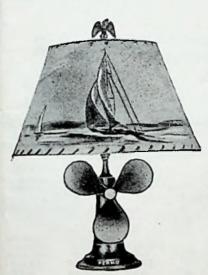


Fig. 1121

Fig. 1122

#### NAUTILUS

Height, 22" Diam. Base, 5%" Diam. Shade, 16" Diam. Wheel, 12" Bronze Steer-

ing Wheel. Hand painted sail cloth shade.

Complete with Shade

Polished Brass Each \$18.00

**Chromium** Plated Each \$22.00

> Shades Only Each \$5.00

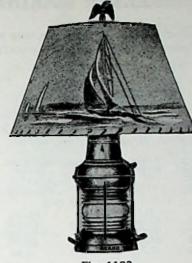


Fig. 1123

#### NOMAD

Height, 20" Diam. Base, 5%" Diam. Shade, 16" Size Glass, 4x4%"

Glass clear. Light inside. Hand painted sail cloth shade.

Complete with Shade

Polished Brass Each \$16.00

Chromium Plated Each \$18.50

> Shades Only Each \$5.00

#### NORSEMAN

Height, 20" Diam.Base,5%" Diam.Shade,16" Diam. Prop., 9"

Aluminum propeller. Hand painted sail cloth shade.

> Complete with Shade

Pollshed Brass Each \$17.00

> Chromlum Plated Each \$20.00

Shades Only Each \$5.00

#### NORTHERN LIGHT

Height, 22" Dlam. Base, 6" Dlam. Shade, 16" Dlam. Bell, 8"

Hand painted sailcloth shade.

Complete with Shade

Polished Brass Each \$16.00

> Chromium Plated Each \$19.00

Shades Only Each \$5.00



Fig. 1124



Fig. 1125

#### SEA GULL

Height, 19%" Dlam. Base, 4%" Diam. Shade, 16" Size Globe, 6x6"

Globe frosted. Light inside. Hand painted sailclothshade.

Complete with Shade

Polished Brass Each \$18.50

> Chromium Plated Each \$22.00

Shades Only Each \$5.00

#### "CAPE COD"

Height, 13" Diam. Base, 4%" Diam. Shade, 10" Size Glass, 3%x3%'

Clear glass. Light inside. Pen and ink parchment shade.

#### **Complete with Shade**

Polished Brass	Chromium
Each	Each
\$10.00	\$12.00

Shades Only Each \$2.25



## **"PERKO" MARINE HOUSE FIXTURES**

All constructed of heavy brass or copper, with original marine fresnel magnifying lens, glass dome bottom for reflecting light downward and standard screw sockets. All wired to meet requirements of fire underwriters, ready for installation.



#### **Universal Pattern**

With cast bronze ring in top for loose hanging from chain or wall bracket. Hinged dome bottom.

No. 1 2	Height Inches 9 111/2	Diam. Inches $4\frac{1}{2}$ $5\frac{1}{2}$	Size Globe Inches 3 ³ / ₈ x 3 ¹ / ₂ 4 ¹ / ₄ x 4 ¹ / ₄
No. 1 2	Pol. Brass Each \$6.00 7.75	Pol. Copper Each <b>\$8.00</b> <b>9.75</b>	Chrom. Plated Add Each \$2.00 2.00



### **Turret Pattern**

With cast bronze ring for hanging. A regular ship's anchor light fitted up for fixture use.

	-F		
No.	Height Inches	Diam. Inches	Size Globe Inches
22	17	71/2	5% x 6
22 1/2	181/2	71/2	6 x 6 %
23	211/2	91/2	7 x 8
No. 22 22 ¹ /2 23	Polished Brass Each \$25.00 27.00 33.00	Polished Copper Each \$30.00 32.00 42.00	Chromlum Plated Add Each \$5.00 5.00 9.00

Fig. 436

With red, green, or blue globes, add \$5.00 each.



Fig. 363

#### **Universal Pattern** WITH WALL BRACKET Diameter bracket 41/2 inches. Height Diameter Inches Inches 9 41/2 Size Globe Inches No. 8×31 41/2 51/2 111/2 2 41/4 x 41/4 Pol. Pol. Chrom. Brass Copper Each Plated Add Each No. \$7.50 \$ 9.50 \$2.00 2 9.25 11.25 2.00



#### Marine Pattern

Half round body with flat back for mounting on wall or side of post. With front door for cleaning or rebulbing and bracket.

No.	Height Overall Inches	Width Inches	Size Lens Inches
1 2	11 13	5 5½	4¼ x 6½ 5¼ x 7%
No.	With Galvanized Each \$5.00	Clear Len Polished Brass Each \$6.25	S Chromlum Plated Add Each \$2.00

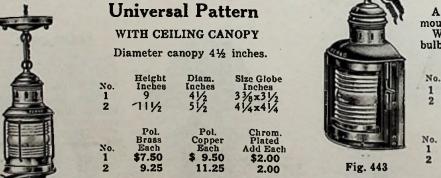
8.50

2.25

Fig. 442 With colored lens, red or green-add \$1.00 each.

6.25

2



**Triangle Pattern** 

A triangular shaped body for mounting in corners. With front door for cleaning or re-

bulbing and bracket.

Î	No.	Height Overall Inches	Width of Sides Inches	Size Lens Inches
	- 1	11	51/4	4% x 4%
	2	13	5%	5¼ x 5%
	No. 1 2	Galvanized Each \$5.00 6.25	Polished Brass Each \$6.25 8.50	Chromium Plated Add Each \$2.00 2.25

Furnished with clear, red or green lenses. Specify color desired.

Fig. 361

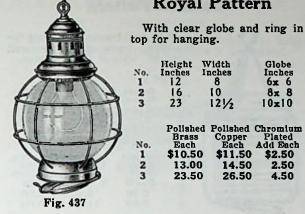
Figs. 361, 363, 471 with red, green, blue, or amber globes add \$2.00 to above prices.



#### **Knight Pattern**

With cast bronze ring in top for hanging.

No. 1 2	Height Inches 8½ 12	Diam. Inches 4½ 5¾	Size Globe Inches 3% x 3½ 4¼ x 4¼
No. 1 2	Polished Brass Each \$6.50 8.00	Pollshed Copper Each \$8.50 9.90	Chromium Plated Add Each \$2.00 2.00



-			
No.	Height Inches	Width Inches	Globe Inches
1	12	8	6x 6
2	16	10	8x 8
3	23	121/2	10x10
	Polishe Brass	d Polished Copper	
No.	Each	Each	Add Each
1	\$10.50	\$11.50	
2	13.00	14.50	2.50
3	23.50	26.50	4.50

**Royal Pattern** 



# Knight Pattern WITH DAVIT BRACKET

No.	1	2
	Inches	Inches
Height	101/2	13
Projection	8¾	10
Size globe	3 % x 3 ½	41/4 x41/4
Diam, wall		
plate	4 1/2	4 1/2
prave	4 /4	

2 Br

io. 1	l'ol. Brass Each \$11.00 12.50	Pol. Copper Each \$13.00 14.50	Chrom. Plated Add Each \$3.00 3.00
racke			
only	4.00	4.50	1.00



## **Royal Pattern**

WITH WALL BRACKET

Dia	meter br	acket 4	1/2 inches.
No	0	leight verall nches	Diam. Wall Plate Inches
12		13 17	41/2
3		24	4 1/2
No. 1 2 3	Pol. Brass Each \$12.00 14.50 25.00	Pol. Copper Each \$13.00 16.00 28.00	Add Each \$3.00 3.00
		3	1. Al



Fig. 577

Knight	Pattern
	DAVIT CKET

No. Height, Protection, Diam. Globe,	1 In. 17 8½ 3½	2 In. 17 9 4¼
Brass Con No. Each E 1 \$11.00 \$1	ol. P pper 2 ach E 3.00 \$	hrom. lated Add Jach 3.00 3.00

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



### **Royal Pattern**

WITH CEILING CANOPY

Diam	eter can	opy 4½	inches.
No.	Heig Over Inch	all	Diam. Canopy Inches
1	12 16	%	4%
2 3	24		4 1/2
No. 1 2 3	Pol. Brass Each \$12.00 14.50 25.00	Pol. Copper Each \$13.00 16.00 28.00	Chrom. Plated Add Each \$3.00 3.00 5.00

Royal pattern fixtures can be furnished with red, green, blue, or frosted globes. Add \$3.00 to above prices.



## **"PERKO" MARINE HOUSE FIXTURES**

All constructed of heavy brass or copper, with original marine fresnel magnifying lens, glass dome bottom for reflecting light downward and standard screw sockets. All wired to meet requirements of fire underwriters, ready for installation.



#### **Universal Pattern**

With cast bronze ring in top for loose hanging from chain or wall bracket. Hinged dome bottom.

No. 1 2	Height Inches 9 111⁄2	Dlam. Inches 4½ 5½	Size Globe Inches 3 ³ / ₈ x3 ¹ / ₂ 4 ¹ / ₄ x4 ¹ / ₄
No. 1 2	Pol. Brass Each \$6.00 7.75	Pol. Copper Each \$8.00 9.75	Chrom. Plated Add Each \$2.00 2.00



### **Turret Pattern**

With cast bronze ring for hanging. A regular ship's anchor light fitted up for fixture use.

Height Inches	Diam. Inches	Size Globe Inches
17	71/2	5% x 6
181/2	71/2	6 x 6%
21 1/2	91/2	7 x 8
Polished Brass	Polished Copper	Chromium Plated
Each	Each	Add Each
\$25.00	\$30.00	\$5.00
27.00	32.00	5.00
33.00	42.00	9.00
	Inclies 17 18½ 21½ Polished Brass Each \$25.00 27.00	Inches         Inches           17         7 ½           18½         7 ½           21½         9 ½           Polished         Polished           Brass         Copper           Each         Each           \$25.00         \$30.00           27.00         32.00

With red, green, or blue globes, add \$5.00 each.



Fig. 363

#### Universal Pattern WITH WALL BRACKET Diameter bracket 4½ inches. Height Diameter Size Globe No. Inches 3³/₈x3¹/₂ 4¹/₄x4¹/₄ Inches 9 Inches 41/2 51/2 111/2 2 Pol. Pol. Chrom. Plated Brass Each Copper No. Add Each \$7.50 9.50 \$2.00

11.25

2.00

2

9.25



#### Marine Pattern

Half round body with flat back for mounting on wall or side of post. With front door for cleaning or rebulbing and bracket.

\$6.25

**Triangle Pattern** 

8.50

\$2.00

2.25

	No.	Height Overall Inches	Width Inches	Size Lens Inches
7	1	11	5	4¼ × 6%
-	2	13	5½	54 x 7%
30		With	Clear Ler Polished	ns Chromium
3	No.	Galvanized Each	Brass Each	Plated Add Each

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

\$5.00

6.25

1

2



Fig. 361

Furnished with clear, red or green lenses. Specify color desired.

Figs. 361, 363, 471 with red, green, blue, or amber globes add \$2.00 to above prices.



## **Knight Pattern**

With cast bronze ring in top for hanging.

No.	Height Inches	Diam. Inches	Size Globe Inches
1	8½	4 1/2	3% x 3½
2	12	5 3/4	4¼ x 4¼
	Polished	Polished	Chromium
No.	Brass Each	Copper Each	Plated Add Each
1	\$6.50	\$8.50	\$2.00
2	8.00	9.90	2.00



**Royal Pattern** 

With clear globe and ring in top for hanging.

			Globe
			Inches
-		-	6x 6
2	16	10	8x 8
3	23	121/2	10x10
No. 1 2 3	Polished Brass Each \$10.50 13.00 23.50	Polished Copper Each \$11.50 14.50 26.50	Chromium Plated Add Each \$2.50 2.50 4.50
	1 2	No. Inches 1 1 12 2 16 3 23 Polished Brass No. Each 1 \$10.50 2 13.00	No. Inches Inches 1 12 8 2 16 10 3 23 121/2 Polished Polished Brass Copper No. Each Each 1 \$10.50 \$11.50 2 13.00 14.50



# Knight Pattern WITH DAVIT BRACKET

No. 2 1 Inches Inches Height 101/2 13 Projection 8¾ 10 Size globe 3¾ x3½ 4¼ x4¼ Diam. wall 4 1/2 plate 4 1/2

1

No. 1 2 Bracke	Pol. Brass Each \$11.00 12.50	Pol. Copper Each \$13.00 14.50	Chrom. Plated Add Each \$3.00 3.00
only		4.50	1.00

WITH DAVIT BRACKET

In

17 81/2

Pol

Copr

\$11.00 \$13.00 \$3.00

14.50

2 In. 17

4%

Plated Add

3.00

Each

No.

Pol Brass

Each

12.50

2

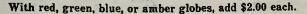


WITH WALL BRACKET

Diar	neter br	acket 43	2 inches.
No.	C	leight verall inches	Diam. Wall Plate Inches
1 2 3		13 17 24	41/2 41/2 41/2
No. 1 2	Pol. Brass Each \$12.00 14.50	Pol. Copper Each \$13.00 16.00	Chrom. Plated Add Each \$3.00
3	25.00	28.00	5.00



Fig. 577





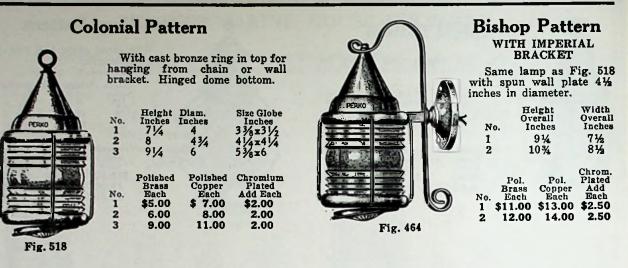
## **Royal Pattern**

WITH CEILING CANOPY

Diame	ter can	opy 4 1/2	inches.
No.	Heig Overs Inche	all	Diam. Canopy Inches
1	123	%	41/2
1 2 3	163		4 1/2
3	24		4 1/2
No. 1 2 3	Pol. Brass Each \$12.00 14.50 25.00	Pol. Copper Each \$13.00 16.00 28.00	3.00

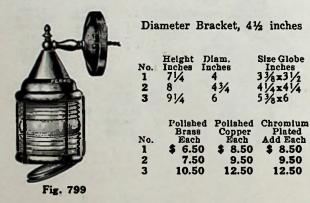
Royal pattern fixtures can be furnished with red, green, blue, or frosted globes. Add \$3.00 to above prices.





## **Colonial Pattern**

WITH WALL BRACKET





Extra heavy spun metal with stud and adjustable stem.

Furnished with one link of chain.

Diameter Inches 5

**Ceiling Canopy** 

Length Closed Inches 6

Polished Brass Each \$2.50

Chromium Plated Add Each \$ .75

## **Colonial Pattern**

	WITH CEI	LING CAL	NOPY
I	Diameter Ca	anopy, 4½	inches
No. 1 2 3	Height Inches 71/4 8 91/4	Diam. Inches 4 43/4 6	Size Globe Inches 33/8 x 31/2 41/4 x 41/4 53/8 x 6
No. 1 2 3	Polished Brass Each \$ 6.50 7.50 10.50	Polished Copper Each \$ 8.50 9.50 12.50	Chromium Plated Add Each \$2.00 2.00 2.00

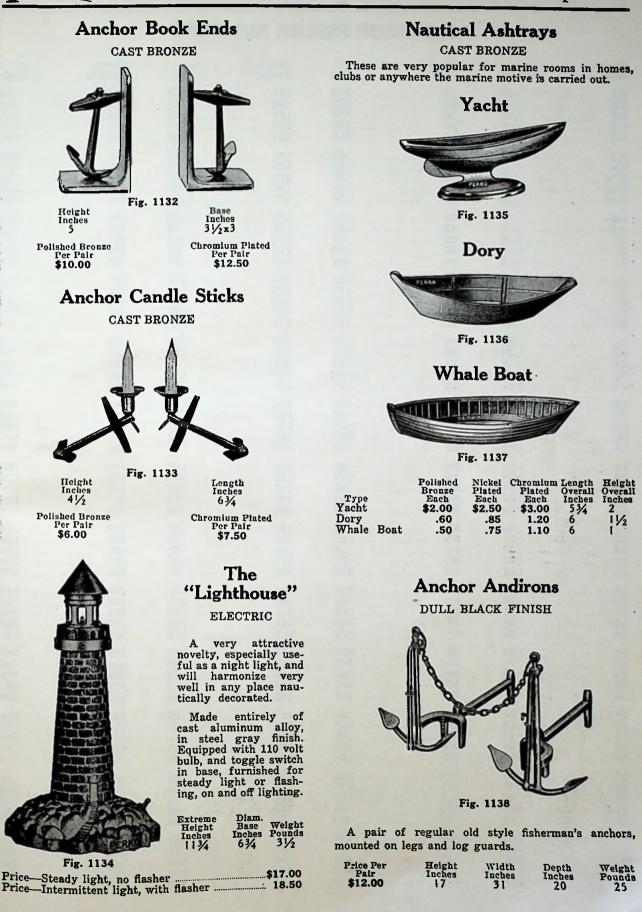
Fig. 360

#### Ceiling Canopy

SHALLOW TYPE



Polished Copper Each \$3.00





Figur Numl		Page	Figur Numl		Figur e Num		Page	Figure Number	Berry
									Page
0-1			54	16			125	102	
0-2		0	55				55	100	
0-4	••••••		56 57						
0-5 0-6	***************************************	-	58					100	
0-0	4164720120120010000000000000000000000000000				_				
0-8			59		8 124		95		100
0-9			60		8 125		39		
0-10		0	61		6 126		39 39		
0-40	****	0	62 63	_	6 127 8 128		41	100	
0-50			05		U 120			193	119
0-80		. 9	64				25	194	
0-90			65		-	***********************************	44		
1		. 6	66			******************************	44		65
2		2	67		5 132 6 133		51	100	
3		6	68		0 155		51	198	
4		. 10	69		6 134	*************************	179	199	
5		. 10	70		5 135	*******************************	44	000	70
6	+		71		2 136	****************	41		
7		4.00	72				41		
8		. 45	73		9 138	******	41	203	
9		. 23	74		5 139		167	204	76
10		. 23	75						
11	•••••••		76				41	000	
12			77						
13		. 11	78		5 143	*****	177	208	
14		. 11	79		6 144	************************	73	209	70
15		4.0	80				73		131
16		. 36	81		8 146	****(******)************************	71		146
17			82				76		
18	,	. 10	83		8 148		76	213	
19		. 10	84		0 149	************************	188	214	96
20			85				121		132
21			86				92		190
22		. 31	87		6 152		93		101
23		. 25	88		6 153		84		
24		26	89		2 154		94	210	100
25		24	90		-	************************************	84 50		128
26		07	91				71		
27		. 32	92	1	2 157		82		129
28		. 32	93		6 158		71		
29	*********	27	94		6 159		191	204	174
30			95						134
31	4		96						129
32			97						147
33		33	98		5 163	•••••••••			147
34		33	99		5 164				
35			100						
36		24	101						76
37		- 4	102						147
38		34	103	2	2 168				137
39		34	104		2 160				
40			105			*************************	35		186
41	········		106	4	-		35 35		
42			107				35		188
43			108		-		35	000	76
44		40	109		2 174				
45	********		110			*******		040	76
			111			***************************************	35		46
47			112				35 65	<b>040</b>	
48		~ .	113				65	040	46
40		10	114						
EA.	••••••••••••••••••••••••••••		114 115				51		89-115
-	****	40	115			******************************	51		46
			117						47
			118					- 4-	132

Figur Numi		Page	Figure Number	Page	Figure Numb <del>e</del> r	Page	Figure Number	Page
249	•••••	48	314		379	133		and so for
250				148		133		
251			316					131
252			317			105		
253			318			54		
254		. 48	319		384	124	449	145
255				106	385		450	
256								
257			322					173
258		48	323		388		453	
259		49	324	95	389		454	58
260			325			150		105
261			326			150		
262						150	4	
263				116		150	4	
264			329					176
265	***********************	4 55	330					
266	*********							
267			332					
268		. 46	333	153	398	151	463	120
269		. 49	334		399		464	
270			335			117	407	
271			336			63	400	
272	****************	. 46	337					
273			338					
274		40	220	149	40.4			
274	************************					EA		
275 276	**********			45			4 - 4	
277	·····			123			4 10 00	
278				162				
		100					475	
279		. 167	344		409	115	474	
280			345				475	
281			346				476	
282			347					
283	*****	. 43	348	133	413	125	478	
284		. 43	349	120	414		479	72
285				115			100	60
286	***********************				14.0			18
287								20
288		43			418		400	20
200		40	254	100	410	100		
289		~ *						
290 291	••							
292					421 422		407	
293					100		400	
				162				
294		. 59	359		424		489	
295			360	196	425		490	
296		. 59				181		
297	•••••				427			
298	***************************************	. 116	363		428	47	493	
299	4-10-10-10-10-10-10-10-10-10-10-10-10-10-	. 97	364		429	47	494	
300	*******			189	430		405	
301	*******************************			180			100	19
302								55
303					433		400	
204							400	
304 305			369		434			1.00
305			370					
307	*************************							
308	*********						500	15
	•••••••	. 56	373		700	195		
309	*****	22	374		439	153	504	16
310		. 61	375		440	195		
311							EAC	
312			377				507	85
313		. 133	378		443			20



Fig		Page	Figure		Dama	Figure			Figure			
Cluz	nber	rage	Number		Page	Numbe	er l	Page	Numb	er	F	age
509		. 91	574		37	638		136	703			160
510					92				704			69
511					77				705			69
512		4.4							706			64
513									707			64
												•••
514	*********************							136	708			64
515								136	709			157
516									710			18
517									711			106
518		. 196	583		124	647	•••••	100	712			106
519		195	584		124	648		80	713			10
520		95					******		713			19
521									715	** - *** * *** * * * * * * * * *		86
522							******		716	•••••		114
523							• • • • • • • • • • • • • • • • • • • •		717	••••••		114 54
010								100		******		34
524					65	653		114	718			54
525					18	654			719			54
526					18			184	720	***************		109
527				•••••••					721			69
528		122	593		163	657		110	722			69
500		60	594		163	CEO		179				
529									723			70
530 531					11				724	***************		.71
532		29-45		*****	ii				725			111
533		29-53							726	*****		158
333				(##\$\$J\$\$=####\$=\$\$==!==;=;=;	110	002	*****	122	727	**************		158
534		63	598		15	663	*******	109	728	*************		158
535					163				729			158
536		14			20				730			160
537		18	601		20		******		731			160
538		19	602		19				732	*****************		78
539	*******				19				733			42
540					48		•••••••		734			107
541	*****				57				735			42
542		131			15				736	*********		42
.543		130	607		130	672		108	737			110
544		124	608	****	129	673		108	738			06
545	*************************		111						739			96 98
546									740	****************		55
547								-	741			123
548									742			103
												105
549	••••							112	743			101
550	•••••					679		116	744			90
551								152	745			54
552	••••••						***********************************	68	746			54
553	***************************************	. 58	617		132	682		66	747	********		53
554		. 58	618		155	.683			740			-
555		FO				684		66	748 749			53
556				*****		685		66 66	749			53
557						686	A	66 64	750			53
558						687		77	752	••••••		
									102	•••••		120
559				•••••		688		77	753			59
560	•••••••••	. 93			151	689		56	754			59
561	·····				185	690	******************************	114	755			
562	••••••					691	******	114	756	*******		
563	*-*************************************	16	627		108	692		115	757	*		
564		22	628		109	693			750			
565						694	*********	64	758	*******		-
566							******	74	759	••••••		
567						696		74	760	4.01.00.00.00.00.00.00.00.00.00.00.00		
568	•••••••••••••••••••••••••••••••••••••••					697	************************************	74	761	••••••••••••••••••		
000						001	******************************	74	762	*********************		174
569		177	633		94	698	******	75	763	**********		124
570			634		90	699		75	764	***********		
571				••••••	128	700		75	765			
572		124				701	•••••••••••••••••••••••••••••••	69	766			
573		23	637		116	702	********	69	767			

Figur Num		Page	Figure Number	Page	Figure Number	Page	Figure Number	Page
768		126	833		898		963	
769			834					
770	*****		835					
771			836		901	183		
772		145	837	178	902			
773		145	838	84	903		968	
774		146	839			115	111	
775			840			115		
776			841			107		
777	******		842					
			0.40		009			
778			843					
779	•••••••		844		909			
780	,		845 846					
781 782			846 847					
102	4						3//	113
783	•	. 91	848	57			978	111
784	4	. 157	849			156		
785		157	850	137		156	980	
786			851					
787	*****	. 102	852	168	917	156	982	
788		102	853	168	918		983	
789	***************************************		854					
790			855					
791			856					
792			857					
700		110			077	105		
793	************************		858					
794			859 860			185		
795 796			0.04					
797	*******		861 862					
	*******	. 145		105			JJ <b>L</b>	135
798		. 47	863	169		134	993	135
799		. 196	864	169			994	135
800	******		865					183
801	4141		866	-				
802		. 178	867	170	932		997	
803		180	868	170	933		998	
804			869		934			
805			870		935			
806	*************************		871	175	936			
807	00)1)1/1/10010101010101010101010	. 162	872	175	937		1002	
808		110	873	171	938		1002	117
809							1003	
810			874				1004	
811			876			102	1006	
812			877			102	1007	
813			878				1008	
814	**1************************************	-	879					
815			880				1010	
816 817	***************************************		881 882				1011	
011	•••••	. 99	882				1012	
818		. 99	883			140	1013	
819	***************************************		884		949		1014	
820	*************************	. 111	885	172			1015	
821			886	172			1016	
822		. 109	887	172	952		1017	
823		77	888	173	953		1018	
824			889					108
825			890				1020	
826			891					
827			892					161
828					958	140		
828			893				1023	161
830			894 895				1024	
831			895 896					
832			897		0.00			80
								101



Figure		Figure	-	Figure	_	Figure	_
Number	Page	Number	Page	Number	Page	Number	Page
1028		1058		1088	139	1118	
1029		1059		1089	139	1119	
1030		1060		1090	103	1120	
1031		1061		1091		1121	
1032		1062		1092	100	1122	100
1033		1063		1093		1123	193
1034		1064	144	1094		1124	
1035	177	1065		1095	191		193
1036		1066		1096		1126	
1037	174	1067	182	1097		1127	
1038	191	1068		1098	178	1128	192
1039	123	1069		1099	****		
1040		1070	101	1100		1129	
1041		1071		1101	********	1130	
1042	180	1072	101	1102		1131 1132	
1043	113	1073	101	1103	88		
1044		1074	101	1104		1133	
1045		1075		1105		1134	
1046		1076		1106		1135	
	175	1077		1107		1136	197
					***********		
1048	140	1078		1108			
1049	140	1079		1109	***********	1138	
1050		1080	159	1110	Antonio	1150	
1051		1081		1111			28
1052		1082	25-27-30	1112	**********	1152	
						1153	
1053	141	1083	160	1113	*******	1154	
1054	141	1084		1114			
1055		1085		1115			
1056		1086	139	1116			
1057	141	1087		1117			



Page

## ALPHABETICAL INDEX B

### Α

-	
Adapters-Electric	54
Adjustable Struts	108
Adjustable Struts Adjusters—Windshield	117
Adjusters—Hatch	145
Adjusters-natch	140
Air Scoops	. 04
Air Whistles	120
Alcohol	
Burnera	. 85
Stoves 86	, 87
Tanks	85
Tanks Water Heaters	86
Aligners-Engine	97
Aligners-Eligne	101
Anchor Balancing Bands	107
Anchor Candle Sticks	.197
Anchor Chocks	.191
Anchor Keys	.191
Anchor Lights American Improved De-Lite, Class 2 and 3	. 27
De-Lite Class 2 and 3	7
Large Size Flat Top	30
Large Size, That Top	25
Large Size, Flat Top Large Size, Turret Top Ten Day, Oil	11
Ien Day, Oil	
Anchor Lights-Waterproof	. 29
Anchor Shackles	148
Anchor Trip Hooks	191
Anches	
Anglers	190
Folding	190
	100
Grapnel	100
Kedge	100
Mushroom	.190
Navy Type	188
Non-Fouling	188
Northill	189
Sand	189
Sea	51
Swivel	188
Trawl	189
	107
Andirons Anti-Sash Rattlers	1 4 4
Anti-Jash Kattlers	
Ash Trays	197
Automatic Boat Drainers	95
Awning Cleats	125
Awning Sockets	132
	- <b></b>

#### B

Back Stay Fittings	
Bags-Ditty	51
Bailers-Boat	
Balancing Bands for Ancho	rs191
Ball Bearings	102, 103
Ball Joints	
Balls-Signal	
Banda-	
Eye	101
Lye	
Gooseneck 1	
Barge Lights	
Barrel Bolts	
Basin Pumps	
Battery Lights 12	
Battery Switches	
Bearings-	
Flat	
Goodrich Rubber	
Intermediate	
Radial and Thrust	
Rear	
Stern	
Thrust	02, 103
Thrust Ball	102, 103
Belaying Pins	180
Bell Chain	

Bell Chain Leaders	101
Bell Cranks	121
Beils— Fog	101
Smoke	41 EQ
Derth Lights	113
Berth Plates Bilge Pumps—	
Galvanized	71
Brass	2 70
Copper	71
Copper Binnacles	2 63
Bitt Lights	15
Bitts—	
Mooring	
Riding	
Blinker-	
Signal Keys	23
Signal Lights	23
Block Shackles	170
Blocks	
Bridle	169
Bullet	
Bullet on Snap Shackle Centerboard	170
Centerboard	
Cheek 166, 167 Deck 166	, 170
Deck	, 167
Fast Eye	164
Loose Hook	164
On Plates165	, 169
On Plates165 Open Lead Snap Shackle	
Snap Shackle	169
Snatch	168
Swivel Eye Wide Mortise	
Yacht	
Blowers	, 170
Boarding Ladders	125
DA	
Boat-	51
Bailers	51
Bailers Cleats	
Bailers Cleats Hook Holders	124
Bailers Cleats Hook Holders Hooks	124 134 134
Bailers Cleats Hook Holders Hooks Scrapers Snaps	124 134 134 185 180
Bailers Cleats Hook Holders Hooks Scrapers Snaps	124 134 134 185 180
Bailers Cleats Hook Holders Hooks Scrapers Snaps Bob Stay Straps Bolts—	124 134 134 185 180 180
Bailers Cleats Hook Holders Hooks Scrapers Snaps Bob Stay Straps Bolts Barrel	124 134 134 185 180 180
Bailers Cleats Hook Holders Hooks Scrapers Snaps Bob Stay Straps Bolts— Barrel Bronze	124 134 134 185 180 180 140 158
Bailers Cleats Hook Holders Hooks Scrapers Snaps Bob Stay Straps Bolts— Barrel Bronze Carriage 155	124 134 134 185 180 180 180 140 158 3, 159
Bailers Cleats Hook Holders Hooks Scrapers Snaps Bob Stay Straps Bolts— Barrel Bronze Carriage 154 Eve 155	124 134 185 180 180 180 140 158 3, 159 4, 156
Bailers Cleats Hook Holders Hooks Scrapers Snaps Bob Stay Straps Bolts— Barrel Bronze Carriage 156 Eye 155 Flush	124 134 185 180 180 140 158 3, 159 4, 156 141
Bailers         Cleats         Hook Holders         Hooks         Scrapers         Snaps         Bob Stay Straps         Bolts         Barrel         Bronze         Carriage         154         Flush         Hanger	124 134 185 180 180 140 158 3, 159 4, 156 141 158
Bailers         Cleats         Hook Holders         Hooks         Scrapers         Snaps         Bob Stay Straps         Bolts—         Barrel         Bronze         Carriage         Lag         156         Flush         Hanger         Lag	124 134 134 185 180 180 180 180 140 158 3, 159 4, 156 141 158 3, 159
Bailers         Cleats         Hook Holders         Hooks         Scrapers         Snaps         Bob Stay Straps         Bolts—         Barrel         Bronze         Carriage         IS6         Flush         Hanger         Lag         Machine	124 134 185 180 180 180 180 180 180 180 180 180 180
Bailers         Cleats         Hook Holders         Hooks         Scrapers         Snaps         Bob Stay Straps         Bolts—         Barrel         Bronze         Carriage         Stay         Flush         Hanger         Lag         Machine         155         Ring	124 134 185 180 180 180 180 180 180 180 180 158 3, 159 4, 156 141 158 3, 159 5, 159 5, 159
Bailers         Cleats         Hook Holders         Hooks         Scrapers         Snaps         Bob Stay Straps         Bolts—         Barrel         Bronze         Carriage         154         Flush         Hanger         Lag         Machine         Ship	124 134 134 185 180 180 140 158 3, 159 4, 156 141 158 3, 159 5, 156 5, 156 141
Bailers         Cleats         Hook Holders         Hooks         Scrapers         Snaps         Bob Stay Straps         Bolts—         Barrel         Bronze         Carriage         Lag         Machine         Ship         Source Neck	124 134 134 185 180 180 140 158 3, 159 4, 156 141 158 3, 159 5, 159 5, 156 141 141
Bailers         Cleats         Hook Holders         Hooks         Scrapers         Snaps         Bob Stay Straps         Bolts—         Barrel         Bronze         Carriage         Lag         Hanger         Lag         Ship         Square Neck         Stove	124 134 134 185 180 180 140 158 3, 159 4, 156 141 158 3, 159 5, 159 5, 156 141 141 157
Bailers         Cleats         Hook Holders         Hooks         Scrapers         Snaps         Bob Stay Straps         Bolts—         Barrel         Bronze         Carriage         Lag         Hanger         Lag         Ship         Square Neck         Stove         Window	124 134 134 185 180 180 180 158 3, 159 4, 156 141 158 3, 159 5, 156 141 141 157 141
Bailers         Cleats         Hook Holders         Hooks         Scrapers         Snaps         Bob Stay Straps         Bolts—         Barrel         Bronze         Carriage         154         Flush         Hanger         Lag         Ship         Square Neck         Stove         Window	124 134 134 185 180 180 180 180 158 3, 159 4, 156 141 158 3, 159 5, 156 141 141 141 141 157 141 197
Bailers         Cleats         Hook Holders         Hooks         Scrapers         Snaps         Bohts—         Barrel         Bronze         Carriage         154         Flush         Hanger         Lag         Ship         Square Neck         Stove         Window         Books—Log	124 134 134 185 180 180 180 180 158 3, 159 4, 156 141 158 3, 159 5, 156 5, 156 141 141 141 157 141 141 141 141 157 141 141
Bailers         Cleats         Hook Holders         Hooks         Scrapers         Snaps         Bolts         Barrel         Bronze         Carriage         154         Flush         Hanger         Lag         Ship         Square Neck         Stove         Window         Books         Books         Books         Books         Hanges	124 134 134 185 180 180 140 158 3, 159 4, 156 141 158 3, 159 5, 156 141 157 141 157 141 197 4, 173
Bailers         Cleats         Hook Holders         Hooks         Scrapers         Snaps         Boh Stay Straps         Bolts—         Barrel         Bronze         Carriage         154         Flush         Hanger         Lag         Ship         Square Neck         Stove         Window         Books—Log         Boom Fittings         Boom Plate Travelers	124 134 134 185 180 180 140 158 3, 159 4, 156 141 158 3, 159 5, 156 141 157 141 157 141 197 4, 173 171
Bailers         Cleats         Hook Holders         Hooks         Scrapers         Snaps         Bolts—         Barrel         Bronze         Carriage         154         Flush         Hanger         Lag         Ship         Square Neck         Stove         Window         Books—Log         Boom Fittings         Boom Plate Travelers         Bow Battery Lights	124 134 134 185 180 180 140 158 3, 159 4, 156 141 158 3, 159 5, 156 141 157 141 157 141 197 4, 173 171 2, 13
Bailers         Cleats         Hook Holders         Hooks         Scrapers         Snaps         Bob Stay Straps         Bolts—         Barrel         Bronze         Carriage         154         Flush         Hanger         Lag         Ship         Square Neck         Stove         Window         Books—Log         Boom Fittings         Boom Plate Travelers         Bow Battery Lights	124 134 134 185 180 180 140 158 3, 159 4, 156 141 158 3, 159 5, 156 141 157 141 157 141 197 4, 173 171 2, 13
Bailers         Cleats         Hook Holders         Hooks         Scrapers         Snaps         Bob Stay Straps         Bolts—         Barrel         Bronze         Carriage         Lag         Hanger         Lag         Ship         Square Neck         Stove         Window         Books—Log         Boom Fittings         Boom Plate Travelers         Bow Battery Lights	124 134 134 185 180 180 180 180 180 180 180 180 180 158 3, 159 4, 156 141 158 3, 159 5, 156 141 157 141 157 141 197 64 173 171 2, 13 131
Bailers         Cleats         Hook Holders         Hooks         Scrapers         Snaps         Bob Stay Straps         Bolts—         Barrel         Bronze         Carriage         Lag         Thush         Hanger         Lag         Ship         Square Neck         Stove         Window         Books—Log         Boom Fittings         Boom Plate Travelers         Bow Battery Lights         Bow Lights—	124 134 134 185 180 180 180 180 180 180 180 180 158 3, 159 4, 156 141 158 3, 159 5, 156 141 141 157 141 197 64 173 171 2, 13 131
Bailers         Cleats         Hook Holders         Hooks         Scrapers         Snaps         Bob Stay Straps         Bolts—         Barrel         Bronze         Carriage         Lag         Thush         Hanger         Lag         Ship         Square Neck         Stove         Window         Books—Log         Boom Fittings         Boom Plate Travelers         Bow Battery Lights         Bow Lights—	124 134 134 185 180 180 180 180 180 180 180 180 158 3, 159 4, 156 141 158 3, 159 5, 156 141 141 157 141 197 64 173 171 2, 13 131
Bailers         Cleats         Hook Holders         Hooks         Scrapers         Snaps         Bob Stay Straps         Bolts—         Barrel         Bronze         Carriage         Lag         Thush         Hanger         Lag         Ship         Square Neck         Stove         Window         Books—Log         Boom Fittings         Boom Plate Travelers         Bow Battery Lights         Bow Lights—	124 134 134 185 180 180 180 180 180 180 180 180 158 3, 159 4, 156 141 158 3, 159 5, 156 141 141 157 141 197 64 173 171 2, 13 131
Bailers         Cleats         Hook Holders         Hooks         Scrapers         Snaps         Bob Stay Straps         Bolts—         Barrel         Bronze         Carriage         Lag         Thush         Hanger         Lag         Ship         Square Neck         Stove         Window         Books—Log         Boom Fittings         Boom Plate Travelers         Bow Battery Lights         Bow Lights—	124 134 134 185 180 180 180 180 180 180 180 180 158 3, 159 4, 156 141 158 3, 159 5, 156 141 141 157 141 197 64 173 171 2, 13 131
Bailers         Cleats         Hook Holders         Hooks         Scrapers         Snaps         Bob Stay Straps         Bolts—         Barrel         Bronze         Carriage         Lag         Thush         Hanger         Lag         Ship         Square Neck         Stove         Window         Books—Log         Boom Fittings         Boom Plate Travelers         Bow Battery Lights         Bow Lights—	124 134 134 185 180 180 180 180 180 180 180 180 158 3, 159 4, 156 141 158 3, 159 5, 156 141 141 157 141 197 64 173 171 2, 13 131
Bailers         Cleats         Hook Holders         Hooks         Scrapers         Snaps         Bob Stay Straps         Bolts—         Barrel         Bronze         Carriage         Lag         Hanger         Lag         Ship         Square Neck         Stove         Window         Books—Log         Boom Fittings         Boom Plate Travelers         Bow Battery Lights	124 134 134 185 180 180 180 180 180 180 180 180 158 3, 159 4, 156 141 158 3, 159 5, 156 141 141 157 141 197 64 173 171 2, 13 131

	rage
Bow-	
Chocks	127
Plates	130
Plates Rings Bowden	131
Bowden-	
Wire and Casing	
Wire Clamps	
Description	
Stuffing	108
Watertight Junction	52
Purson Puddan	101
Braces—Rudder Bracket Steerers	101
Bracket Steerers	
Brackets	
Axe	50
Buikhead	73
Control	115
Hatch	145
Lamp	
Lantern	44
Windshield	116
Brass Rings	191
Bread Breaker Caps	
Dread Dreaker Caps	30
Bread Breakers	50
Breakers—Water Bridge Lights3	51
Bridge Lights	8, 39
Bridle Blocks	169
Bridle Blocks	
Bridle Blocks	
Bridle Blocks	
Bridle Blocks Bridles Bronze Turnbuckles Bronze Yacht Blocks	169 171 176 , 170
Bridle Blocks Bridles Bronze Turnbuckles Bronze Yacht Blocks 168, 169 Bulbs-Electric	169 171 176 , 170 45
Bridle Blocks Bridles Bronze Turnbuckles Bronze Yacht Blocks 168, 169 Bulbs-Electric	169 171 176 , 170 45
Bridle Blocks Bridles Bronze Turnbuckles Bronze Yacht Blocks 168, 169 Bulbs-Electric	169 171 176 , 170 45
Bridle Blocks Bronze Turnbuckles Bronze Yacht Blocks	169 171 176 , 170 , 170 , 115 , 115
Bridle Blocks Bronze Turnbuckles Bronze Yacht Blocks 168, 169 Bulbs—Electric Bulkhead— Controls 114 Lanterns Bullet Blocks	169 171 176 , 170 , 170 , 115 , 115
Bridle Blocks Bronze Turnbuckles Bronze Yacht Blocks	169 171 176 , 170 , 170 , 170 , 170 , 115 40 
Bridle Blocks Bridles Bronze Turnbuckles Bronze Yacht Blocks	169 171 176 , 170 , 170 , 170 , 170 , 170 , 170 , 170 , 170
Bridle Blocks Bronze Turnbuckles Bronze Turnbuckles Bronze Yacht Blocks	169 171 176 , 170 , 170 , 170 , 170 , 170 , 170 , 170 , 126 , 126
Bridle Blocks Bronze Turnbuckles Bronze Yacht Blocks . 168, 169 Bulbs—Electric Bulkhead— Controls	169 171 176 , 170 45 , 115 
Bridle Blocks Bronze Turnbuckles Bronze Turnbuckles Bronze Yacht Blocks	169 171 176 , 170 45 , 115 
Bridle Blocks Bridles Bronze Turnbuckles Bronze Yacht Blocks	169 171 176 170 45 , 170 170 126 126 134 186
Bridle Blocks Bridles Bronze Turnbuckles Bronze Yacht Blocks	169 171 176 170 45 , 170 170 126 126 134 186
Bridle Blocks Bronze Turnbuckles Bronze Yacht Blocks	169 171 176 , 170 45 , 115 170 126 126 134 186 , 187 186
Bridle Blocks Bronze Turnbuckles Bronze Yacht Blocks	169 171 176 , 170 45 , 115 170 126 126 134 186 , 187 186
Bridle Blocks Bronze Turnbuckles Bronze Yacht Blocks . 168, 169 Bulbs—Electric Bulkhead— Controls	169 171 176 170 170 45 , 115 40 170 126 126 134 186 , 187
Bridle Blocks Bridles Bronze Turnbuckles Bronze Yacht Blocks	169 171 176 , 170 , 170 126 126 126 134 186 , 187 186 187
Bridle Blocks Bridles Bronze Turnbuckles Bronze Yacht Blocks	169 171 176 176 176 176 176 176 126 126 134 187 187 187 187 187 187 187 187
Bridle Blocks Bronze Turnbuckles Bronze Yacht Blocks . 168, 169 Bulbs—Electric Bulkhead— Controls	169 171 176 176 170 45 170 170 126 126 126 134 186 , 187 186 187 6, 47
Bridle Blocks Bridles Bronze Turnbuckles Bronze Yacht Blocks	169 171 176 176 176 45 176 126 126 126 134 186 187 187 6, 187 187 6, 47 187

B

## С

Cabin-	
Door Hooks	43
Fixtures	58
Heaters	
Lamps, Oil	41
Cabinet Latches	44
Cable—	
Electric	55
Outlets	
Straps	
Candle Sticks	
Canoe Cleats	
Canopy—Ceiling	
Cans-	.50
Oil	GE
Sea Anchor	21
Canvas Covers for Searchlights	01
Canvas Sea Anchors	51
Cap Screws	157
Caps-	
Bread Breaker	
Gas Tank	
Carriage Bolts	159

## ALPHABETICAL INDEX С

#### С

I	age
Case-Flashlight	51
Casing- Bowden	115
Clamps	116
Catches- Cupboard	140
Elbow Flush Ring	141
Flush Ring	141
Caulking Irons	185
Mallata	100
Centerboard Blocks Centerboards—Snipe	179
CL_:_	
Bell or Telegraph Deck Pipes	121
Deck Pipes	121
Leaders Plates	177
Roller Shackles	114
Chart Cares	65
Check Blocks 166, 167, Chimneys 46,	96
Cheek Blocks 166, 167,	47
Chocks-	
Anchor	191
Bevel Bow	125
Bulwark Bow Bulwark Stern	126
Mooring	125
Skene Bow	120
Skene Stern Straight Stern	125
Streamline Bow Streamline Stern	127
Choke Controls	115
Clam Shell Ventilators	. 95
Clamps-	
Bourden Casing	116
Clamps- Bowden Casing Hose	.116 108
Hose	116 108 162
Hose	162
Hose	108 .162 .174 .125
Hose	108 .162 .174 .125 .124
Hose	108 .162 .174 .125 .124 .124
Hose	108 .162 .125 .125 .124 .124 .124
Hose77, Tiller Rope Cleats Automatic Jam Awning Canoe Fender Flag Pole Hollow Improved Onen Base	108 .162 .125 .124 .124 .124 .124 .124 .124 .124
Hose77, Tiller Rope7 Cleats Automatic Jam Awning Canoe Fender Flag Pole Hollow Improved Open Base Racing Jam	108 .162 .124 .125 .124 .124 .124 .124 .124 .124 .124
Hose77, Tiller Rope7 Cleats Automatic Jam Awning Canoe Fender Flag Pole Hollow Improved Open Base Racing Jam	108 .162 .124 .125 .124 .124 .124 .124 .124 .124 .124
Hose77, Tiller Rope Cleats Automatic Jam Awning Canoe Fender Flag Pole Hollow Improved Open Base Racing Jam Rigging Roller Jam Round Base	108 .162 .125 .124 .124 .124 .124 .124 .124 .124 .124
Hose77, Tiller Rope Cleats Automatic Jam Awning Canoe Fender Flag Pole Hollow Improved Open Base Racing Jam Rigging Roller Jam Round Base Ship	108 .162 .124 .125 .124 .124 .124 .124 .124 .124 .174 .174 .174 .124
Hose       77,         Tiller Rope       77,         Cleats       7         Automatic Jam       7         Awning       7         Canoe       7         Fender       7         Flag Pole       7         Hollow       1         Improved       7         Open Base       7         Racing Jam       7         Rigging       7         Round Base       7         Ship       7         Square Base       7	108 .162 .174 .125 .124 .124 .124 .124 .124 .124 .174 .174 .174 .125 .124
Hose77, Tiller Rope Cleats Automatic Jam Awning Canoe Fender Flag Pole Hollow Improved Open Base Racing Jam Rigging Roller Jam Round Base Ship Square Base Streamline Clew Outhaul	108 .162 .174 .125 .124 .124 .124 .124 .124 .124 .124 .124
Hose77, Tiller Rope Cleats Automatic Jam Awning Canoe Fender Flag Pole Hollow Improved Open Base Roller Jam Roller Jam Roller Jam Roller Jam Roller Jam Square Base Streamline Clew Outhaul Clew Outhaul Slides	108 162 174 125 124 124 124 124 124 124 124 124 124 171 174 124 125 .124 .125 .124 .125 .124 .125 .125 .124
Hose77, Tiller Rope7 Cleats Automatic Jam Awning Canoe Fender Fender Flag Pole Hollow Improved Open Base Racing Jam Racing Jam Raigging Roller Jam Roller Jam Round Base Siguare Base Streamline Clew Outhaul Slides Clips_Wire Rope	108 162 174 125 124 124 124 124 124 124 124 124 174 124 175 175 175
Hose77, Tiller Rope Cleats Automatic Jam Awning Canoe Fender Flag Pole Hollow Improved Open Base Racing Jam Roigring Roller Jam Round Base Ship Square Base Streamline Clew Outhaul Slides Clips-Wire Rope Closets-Boat Clutch Control	108 162 174 125 124 124 124 124 124 124 124 124 124 124
Hose77, Tiller Rope Cleats Automatic Jam Awning Canoe Fender Flag Pole Hollow Improved Open Base Roller Jam Round Base Ship Square Base Streamline Clew Outhaul Slides Clips-Wire Rope Closets-Boat Clutch Control Coat and Hat Hooks	108 162 174 125 124 124 124 124 124 124 124 124 124 124
Hose       77,         Tiller Rope       77,         Cleats       Automatic Jam         Awning       78,         Canoe       78,         Fender       Fender         Flag Pole       78,         Hollow       1         Improved       79,         Open Base       78,         Racing Jam       78,         Roller Jam       78,         Round Base       78,         Square Base       78,         Streamline       71,         Clew Outhaul       71,         Clew Outhaul       71,         Clew Outhaul       71,         Closets-Boat       71,         Clutch Control       71,         Coat and Hat Hooks       72,	108 162 174 125 124 124 124 124 124 124 124 124 124 124
Hose77, Tiller Rope Cleats Automatic Jam Awning Canoe Fender Fander Fander Fander Fander Fander Fander Rollew Roller Jam Roller Jam Roller Jam Round Base Square Base Square Base Streamline Clew Outhaul Slides Closets-Boat Closets-Boat Clotes-Sea Collars Collars	108 162 174 125 124 124 124 124 124 124 124 124 124 124
Hose	108 162 174 125 124 124 124 124 124 124 124 171 171 174 124 171 175 175 175 175 175 175 175 175 175
Hose       77,         Tiller Rope       77,         Cleats       Automatic Jam         Awning       77,         Canoe       78,         Awning       78,         Canoe       78,         Fender       71,         Hollow       1         Improved       70,         Open Base       70,         Round Base       70,         Streamline       70,         Clew Outhaul Slides       70,         Closets       70,         <	108 162 174 125 124 124 124 124 124 124 124 124
Hose       77,         Tiller Rope       77,         Cleats       Automatic Jam         Awning       78,         Canoe       78,         Fender       78,         Flag Pole       78,         Hollow       1         Improved       78,         Open Base       78,         Racing Jam       78,         Round Base       78,         Ship       50,         Square Base       51,         Streamline       71,         Clew Outhaul       1,         Clew Outhaul Slides       7,         Clips—Wire Rope       7,         Cloat and Hat Hooks       7,         Cocks—Sea       7,         Collars—       7,         Rudder       7,         Shaft       7,         Combination Lights—       7,	108 162 174 125 124 124 124 124 124 174 174 174 175 175 153 80 109 143 81 177 99 102 13
Hose       77,         Tiller Rope       77,         Cleats       Automatic Jam         Awning       78,         Canoe       78,         Fender       78,         Flag Pole       78,         Hollow       1         Improved       78,         Open Base       78,         Racing Jam       78,         Rigging       78,         Roller Jam       78,         Round Base       78,         Ship       79,         Square Base       78,         Streamline       71,         Clew Outhaul Slides       79,         Clips—Wire Rope       70,         Closets—Boat       70,         Clutch Control       70,         Coat and Hat Hooks       70,         Coleram Hooks       70,         Collars—       74,         Rudder       74,         Shaft       70,         Combination Lights—       12, 14,	108 162 174 125 124 124 124 124 124 124 124 174 174 174 174 174 175 175 175 175 175 175 175 175 175 175
Hose       77,         Tiller Rope       77,         Cleats       Automatic Jam         Awning       78,         Canoe       78,         Fender       78,         Flag Pole       78,         Hollow       1         Improved       78,         Open Base       78,         Racing Jam       78,         Rigging       78,         Roller Jam       78,         Round Base       78,         Ship       79,         Square Base       78,         Streamline       71,         Clew Outhaul Slides       79,         Clips—Wire Rope       70,         Closets—Boat       70,         Clutch Control       70,         Coat and Hat Hooks       70,         Coleram Hooks       70,         Collars—       74,         Rudder       74,         Shaft       70,         Combination Lights—       12, 14,	108 162 174 125 124 124 124 124 124 124 124 174 174 174 174 174 175 175 175 175 175 175 175 175 175 175
Hose       77,         Tiller Rope       77,         Cleats       Automatic Jam         Awning       78,         Canoe       78,         Fender       78,         Flag Pole       78,         Hollow       1         Improved       78,         Open Base       78,         Racing Jam       78,         Round Base       78,         Ship       50,         Square Base       51,         Streamline       71,         Clew Outhaul       1,         Clew Outhaul Slides       7,         Clips—Wire Rope       7,         Cloat and Hat Hooks       7,         Cocks—Sea       7,         Collars—       7,         Rudder       7,         Shaft       7,         Combination Lights—       7,	108 162 174 125 124 124 124 124 124 124 124 124 124 124

	Page
Streamline	14, 15
Compasses	
Compass Lights	
Connecting Links	
Connections— Electric	53. 54
Inlet	81
Outlet	81
Watertight	52. 53
Conical Point Grommets	182
Connectors—Electric Container—Match Continuous Hinge	53 54
Container-Match	51
Continuous Hinge	146
Control	
Control— Cranks	116
Rod Sockets	116
Wire Sockets	
Wire Sockets	
Controls— Bulkhead	14 115
	14, 115
Clutch Dashboard Choke	115
Remote	115
Remote	
Reverse Gear Spark and Throttle	14 115
Spark and Infottle	14, 115
Throttle1 Converters—Electric	14, 115
Converters-Electric	44
Cotter Pins	
Coupling	
riexible	
Hose	
Moulding	
Shaft	
Course Protractor	
Covers for Searchlights	61
Crank Case Pumps	
Cranks-Bell	
Control	
Cuddy Door Hinges	
Cupboard Catches	
Cupboard Turns	
Сира-Grease	
Curtain Fasteners Cutters-Grommet Hole	
Cutters-Grommet Hole	

#### D

Dart Shanks	
Darts-Sword Fish	
Dashboard Choke Controls	115
Dashboard Lamps	55
Day Signals	
Deck-	
Blocks	66. 167
Irons	85
Lights	
Pipes, Chain	123
Pipes, Rope	123
Plate Keys	
Plates	
Sockets	
Straps	
Travelers	
Diaphragm Pumps	74
Dies-Grommet	183
Distress Lights	40. 50
Distress Outfits	
Ditty Bags	
Dividers	
Dock Roller	
Dome Lights	
Door Buttons	
Door Holders	
Door Pulls	
Drain Plugs	
Sterr tree	

#### D

Drainer	-Automatic Boat	.95
Drains-	-Automatic Boat	51
Drawer	Handle	141
Drawer	Pulls	143

#### E

Elbow Catches		141
Electric-		
Adapters		54
Bulbs		45
Cabin Fixtures	57,	58
Cable		55
Connections	53,	54
Connectors	53,	54
Converters		44
Fans		89
Horns 1	18.	119
Plugs 52.	53.	54
Sirens		119
Sirens Switches 52,	54.	55
Emergency Lights		47
Engine Aligners		97
Engine Mountings-Rubber		105
Engineer's Lanterns		40
English Regulation Lights		34
Enos Windlass		
CROS WINDLASS		187
Escutcheons Exhaust—		
Escutcheons Exhaust—		140
Escutcheons Exhaust— Fan Ventilators		140 90
Escutcheons Exhaust— Fan Ventilators Fans		90 90
Escutcheons Exhaust— Fan Ventilators Fans Pipe Flanges		90 90 90 96
Escutcheons Exhaust— Fan Ventilators Fans Pipe Flanges Tube Flanges		90 90 90 96
Escutcheons Exhaust— Fan Ventilators Fans Pipe Flanges Tube Flanges Eye—		90 90 96 96
Escutcheons Exhaust— Fan Ventilators Fans Pipe Flanges Tube Flanges Eye— Bands		140 90 90 96 96 96
Escutcheons Exhaust— Fan Ventilators Fans Pipe Flanges Tube Flanges Eye— Bands Bolts1	54,	140 90 96 96 96 181 156
Escutcheons Exhaust— Fan Ventilators Fans Pipe Flanges Tube Flanges Eye— Bands Bolts 1 Plates	54,	140 90 96 96 181 156 171
Escutcheons Exhaust— Fan Ventilators Fans Pipe Flanges Tube Flanges Eye— Bands Bolts 1 Plates Screw on Plate	54,	140 90 96 96 96 181 156 171 177
Escutcheons Exhaust— Fan Ventilators Fans Pipe Flanges Tube Flanges Eye— Bands Bolts Plates Screw on Plate Straps	54,	140 90 96 96 181 156 171 177
Escutcheons Exhaust— Fan Ventilators Fans Pipe Flanges Tube Flanges Eye— Bands Bolts Plates Screw on Plate Straps Eyelet Grommets	54,	140 90 96 96 181 156 171 177
Escutcheons Exhaust— Fan Ventilators Fans Pipe Flanges Tube Flanges Eye— Bands Bolts 1 Plates Screw on Plate Straps Eyelet Grommets Eyes—	54,	140 90 96 96 181 156 171 177 171 182
Escutcheons Exhaust— Fan Ventilators Fans Pipe Flanges Tube Flanges Eye— Bands Bolts Screw on Plate Straps Eyelet Grommets Eyes— Bow	54,	140 90 96 96 96 181 156 171 177 171 182 131
Escutcheons Exhaust— Fan Ventilators Fans Pipe Flanges Tube Flanges Eye— Bands Bolts 1 Plates Screw on Plate Straps Eyelet Grommets Eyes—	54,	140 90 96 96 181 156 171 177 171 182 131 163

#### F

Face Lights-Eight Inch	32.	33
Fan Type Ventilators		
Fans-		
Electric		89
Exhaust		
Fast Eye Blocks		
Fast Eye Snaps		
Fasteners-		
Curtain		183
Refrigerator		
Sash	145	146
Skylight	,	145
Fender-		
Cleats		124
Hooks		
Mouldings		
Ferry Boat Lights		
Fids-Hand		
Figures-Bronze		
Fins-Racing		100
Fisherman's Lights		37
Fishing Swivels		184
Fittings-		
Boom		173
for Back Stay		
Jib Club		
Spinnaker Pole		173

## ALPHABETICAL INDEX

## F

Page

Fixtures-	a faith and the second second
Electric Cabin	56, 57, 58
House	194, 195, 196
Flag Pole-	
Cleats	124
Lights	18 19 20
Sockets	
Flag Poles	103
Flange Couplings	
Flange Eyes	
Flanges-	
Exhaust Pipe	
Exhaust Tube	
Floor	
Pipe	132
Flashlight Case	51
Flush Bolts	141
Flush Drawer Hand	e 141
Flush Ring Pulls	
Fog Horns	120
Folding Anchors	100
Folding Lavatories	
Folding Stools	
Folding Wardrobe H	looks
Foot Rope Plates	177
Force Pumps	
Founts	42, 43
Frames for Port Lig	ht Glasses 82
Fresnel Lenses	
Frustrums-Signal	35
Funnels-Gasoline	65

## G

Gaff Topsail Hooks	177
Galley Pumps	75
Galley Sinks	79
Gasoline Funnels	65
Gasoline Strainers	
Gas Tank Caps	95
Gear Pumps	77
Generators	
Glasses-	
Dome Light	48
Fresnel	49
Globe Lights	40
Globes	49
Goodrich Rubber Bearings	112
Gooseneck Bands 172,	173
Grab Rail Posts	133
Grab Rails	133
Grappling Irons	190
Grapnels	190
Grease Cups	77
Grommet	
Dies	183
Hole Cutters	182
Hooks	183
Rings	183
Grommets-	
Conical Point	
Eyelet	
Spur	182
Teeth	182
Washer	182
Guides-Tiller Rope	163
Guns-Oil	71
Gypsy Windlasses	187

## Η

Halyar	d Deck Leaders	
Hamme	ocks-Clothes	
Hands-		
Fid	************	185
Rail	Socketa	

## Η

Page

па	naies—	
	Flush Drawer	41
	for Control Wire 1	18
	for Control wire	19
	Hatch 131, 1 Lifting 131, 1	46
	1:6ting 131 1	46
	Litting	40
Ha	inger Bolts	.58
17.	- 11' 1	4.2
па	sp Hinges	43
Ha	isps—Safety 1 htch—	41
ria	itch— Adjusters	
	Adjustera	45
	D	40
	Brackets	145
	Handles 131. 1	46
	Handles 131, 1 Hinges 142, 1	48
	Flinges	43
	Moulding	47
	T	
	Trim1	141
Нr	adboards—Marconi	173
	ads-Liverpool adstay Fittings	00
Мe	ads-Liverpool	92
He	adatav Fittings	175
	eaters-	
	Cabin	88
	Water	00
Hi	nged Mast Steps	123
	nges-	
a	nRes	
	Boston Hasp	143
	Butt	142
		144
	Butt Butterfly	141
	Continuous	AC
	Continuous	140
	Cuddy Door	142
	Hatch 142, Port	145
	Flaten	145
	Port	142
	Rail	133
	Ivali	100
	Refrigerator	144
	Sash	146
	Jasn	140
	Security Hasp	143
	Skylight	145
	Skylight	145
	Spring	141
	Strap olders-	140
	Strap	142
H	olders—	
	Part Harl	124
	Boat Hook	134
	Door	144
	for Ring Buoy Outrigger Pole	124
	for King Duoy	134
	Outrigger Pole	184
	Pot	OF
	Fot	03
H	ollow Cleats	124
11	ooks	
-	OOKS	
	Anchor Trip	191
	ooks— Anchor Trip and Thimbles 152, Boat	152
	and I minores	100
	Boat	134
	Cabin Door	142
	Coat and Hat	143
	Coleman	177
	Fender Folding Wardrobe	134
	Folding Wardrobe	144
	C C T 1	1
	Gan lopsall	111
	Gaff Topsail Grommet	183
	Ladder	125
	Ladder	133
	Match	153
	N/	1=1
	Mooring	191
	Release	177
	"S"	100
		192
	Screw	152
	S II F	150
	Small Eye	154
	Snap	180
	Taning	150
	Towing	192
	Wardrobe 143.	144
	oops-Mast	181
		101
H	orns-	
	Electric	110
	Liectric	113
	Fog	120
	Simol	120
_	Signal	120
н	Signal	120
H	Signal	120
н	Signal	120 108 77

## I

Ice Box Ventilators	24 81
Inlet Connections	81
Inlet Connections	81
Inlet Strainers	81
	0.
Intermediate Bearings	03
Irons-	
Caulking 1	85
Grappling	90
Water Deck	

## J

am Cleats	.174
Club Fittings	
Rings	181
Snap Hooks	
Snaps	
libstay Fittings	
loints	
Ball	116
Universal	.103
Junction Box-Watertight	

## K

Keys- Anchor	
Blinker	
Deck Plate .	
Knobs-Door	

#### L

Lacing Eyes	
Ladder Hooks	135
Ladder Locks	
Ladders- Boarding	100
Boarding	135
Swimming	
Lag Screws 15	58, 159
Lamps-Cabin	
Cabin	40, 41
Dashboard	
Table 19	2. 193
Wall	40
Lantern Brackets	44
Lanterns- Bulkhead	10
Bulkhead	40
Engineer's	
Navy or Life Boat	40
Western Trap	11
Lap Links Latches—Cabinet	
Latches-Cabinet	
T	
Cast Iron	79
China	78
Folding	
Pressed Steel	70
Lead Lines	
Leaders— Bell Chain	
Bell Chain	
Deck	
Link Deck	
Lip Swivel Deck	
Swivel Deck	
Leads-Sounding	
Leathers-Oar	
Lange-	
Lenses- Fresnel Searchlight	49 40
ricanci	
Searchlight Letters-Bronze	47
Letters-Bronze	
Lever with Clevis	

## ALPHABETICAL INDEX

### L

	Pa	age
Levers—Refrigerator Lifting Handles 13		44
Lifting Handles 13	1, 1	46
Lifting Rings Lifts—Sash	1	46
Lighthouse	1	97
Lighting_		
Cable		55
Switches 52,	54,	55
Lights— American Improved		
26. 27.	31,	32
Anchor-		
Ten Day		11
Thirty Day Barge		11 17
Battery	13.	17
Battery Pole		18
Blinker		23
Bridge	38,	39
Cast Bronze Running 14,	15,	16 15
Combination 6, Combination Bitt	12,	15
Compass		64
Deck De-Lite, Class 1, 2, and 3		84
De-Lite, Class 1, 2, and 3		-
6, 7, Distress or Globe	8,	9
Distress or Globe	58	40 59
Dome Eight Inch Face Emergency English Regulation	32.	33
Emergency		47
English Regulation		34
Ferry Boat Fisherman's		36
Flag Pole	10	37 20
Flasher		23
Flat Top, Large Size		30
Globe		40
Loading		17
Marker	22	17 23
Masthead 24	to	30
Meal and Absent		23
Norwegian Regulation Not Under Command 25,		34
Not Under Command 25,	27,	29
Old Style	28	10 30
Pier	38,	39
Pole	19.	20
Sail Boat		11
Self Lighting	20	50
SpanStaff	38,	39 36
Stern	21.	24
Stern 7, 13, Stern, 135 Degrees 24	to	30
Streamline 14, Towing 24, 26,	15,	16
		30
Turret Top, Large Size	24.	25
Yardarm	22	23
Water Waterproof		50
Waterproof	. 28,	29
Lightweight Portlights Link Deck Leaders		83 169
Links-		
Connecting		157
Lap Swing		157
Swing	•••••	157
Lip Leaders Liverpool Heads		114
Locks-		. 01
Ladder		135
Mortise	39,	140
Rail		13.
Rim1: Log Books1:	38,	139
LOF DOOKS		

## L

			a	5'	-
Loga-	-Shaft		 10	08	3
Loose	Hook	Blocks	 10	64	ł

## Μ

Machine Bolts Mallets—Caulking	158,	159
Mallets-Caulking		185
Manhole Plates Manila Rope Thimbles		122
Manila Rope Thimbles		149
Marlin Spikes		185
Marker Lights		17
Marking Buoys		187
Mast Hoops		181
Mast—		
Lights		
Sets		123
Shroud Tangs		179
Slides		175
Steps-Hinged		123
Track		175
Masthead Lights-		
American Improved	26,	32
Flat Top, Electric		30
Turret Top Waterproof		24
Waterproof		28
Masthead Sheaves		
Masthead Trucks		
Match Container		
Match Hooks	•••••	153
Maxim Silencers Meal and Absent Lights		96
Meal and Absent Lights		23
Mogul Sockets		53
Mooring-		
Bitts		129
Buoys Chocks	186,	187
Chocks	••••••	125
Hooks Mortise Locks 138,	1.0.0	151
Mortise Locks 138,	139,	140
Motor Boat Regulations		. 4
Moulding-		
Couplings		.147
Ends		
Fender		
Hatch		147
Mountings-Engine Rubbe		
Mushroom Anchors		.190

## N

Navy Anchors	
Navy Bilge Pumps	69
Navy Lanterns	
Needles-Sailmakers	
Non-Fouling Anchors	
Northill Anchors	
Norwegian Regulation Ligh	ts
Not Under Command Ligh	
	6, 27, 29
Nut Eye Bolts	154
Nut Eye Bolts	154
Nut Eye Bolts	154
Nut Eye Bolts Nut Ring Bolts Nuts	154 155
Nut Eye Bolts Nut Ring Bolts Nuts Hexagon	154 155 160
Nut Eye Bolts Nut Ring Bolts Nuts	154 155 160 160
Nut Eye Bolts Nut Ring Bolts Nuts	154 155 160 160
Nut Eye Bolts Nut Ring Bolts Nuts Hexagon	154 155 160 160

#### 0

Oar Leathers	137
Oar Locks	137
Oar Tips	
Obstruction Lights	. 39
Oil Guns	
Oilers	65
Open—	- 10.21
Base Cleats	
Lead Blocks	170

	Page
Turnbuckles 150,	151
Outhaul-	
Clew	.175
Slides	175
Outlet Connections	
Outlets-	
Cable	. 55
Water	. 81
Outrigger Pole Holders	.184
Oval Mouth Ventilators	. 91
Ovens	
Overtaken Lights 24, 26, 28	

0

		<b>.</b>			
Paddle 7 Palms— Parallel Pennant Petite T	lips				137
Palma-	Sewing	7			184
Parallel	Rules				64
Permant	W/;				178
D-Alto T					151
Fetite I	urnou	ckies .			100
Pick Up	Buoy	\$	****		100
Pier Lig Pilot Ho	hts				39
Pilot Ho	ouse L	ights .			36
Pins-					
Belay	ing				180
Cotte	r				160
D: T					151
Pipes Chair Rope Rudd Pitch Pa Plate T					
CL	Deal				123
D				100	1 90
Rope	Deck	••••••		123,	123
Rudd	er			99,	100
Pitch Pa	ayers .	*******			65
Plate T	ravele	rs			171
Plates-	-				
Bow					130
Chair					177
Deck	• ••••••				122
Ene		******			171
Eye	<b>D</b>	**************			177
FOOL	Kope				112
tor B	erths .				113
Manh	ole				122
Plante					
Drain					95
Elect	ric			, 53,	54
197					-
Wate	rtight				- 53
Plunger Pole Ho Boat Outri Pole Li Pole Li	s—Pu olders- Hook igger ghts	mp	18	3, 19,	76 134 184 20
Plunger Pole Ho Boat Outri Pole Li Pole Li	s—Pu olders- Hook igger ghts	mp	18	3, 19,	76 134 184 20
Plunger Pole Ho Boat Outr Pole Li Pole Li Poles	s—Pu olders- Hook igger ghts ghts—	mp Batter	18 y	3, 19,	76 134 184 20 18
Plunger Pole Ho Boat Outr Pole Li Pole Li Poles	s—Pu olders- Hook igger ghts ghts—	mp Batter	18 y	3, 19,	76 134 184 20 18
Plunger Pole Ho Boat Outr Pole Li Pole Li Poles	s—Pu olders- Hook igger ghts ghts—	mp Batter	18 y	3, 19,	76 134 184 20 18
Plunger Pole Ho Boat Outr Pole Li Pole Li Poles	s—Pu olders- Hook igger ghts ghts—	mp Batter	18 y	3, 19,	76 134 184 20 18
Plunger Pole Ho Boat Outr Pole Li Pole Li Poles	s—Pu olders- Hook igger ghts ghts—	mp Batter	18 y	3, 19,	76 134 184 20 18
Plunger Pole Ho Boat Outr Pole Li Pole Li Poles	s—Pu olders- Hook igger ghts ghts—	mp Batter	18 y	3, 19,	76 134 184 20 18
Plunger Pole He Boat Outri Pole Li Poles Boat Flag Port H Portlig] Portlig] Ports	s—Pui olders- Hook igger ghts ghts— Hook inges ts - Rudde	mp Batter	18 y	3, 19,	76 134 184 20 18
Plunger Pole He Boat Pole Li Pole Li Poles Boat Flag Port H Portlig Portlig Ports Posts	s—Pui olders- Hook igger ghts ghts— Hook inges ts ts - Rudde	mp Batter	18 y	3, 19, 	76 134 184 20 18 134 19 142 83 84 99
Plunger Pole He Boat Pole Li Poles Boat Flag Port H Portligh Ports Grab	s—Pui olders- Hook igger ghts Hook inges ts ts Rail	Batter	18 y	3, 19, 	76 134 184 20 18 134 19 142 83 84 99
Plunger Pole He Boat Pole Li Poles Boat Flag Port H Portligh Ports Grab	s—Pui olders- Hook igger ghts ghts— Hook inges ts Rudde Rail	Batter	18 y	3, 19, 	76 134 184 20 18 134 19 142 83 84 99
Plunger Pole Hi Boat Outr Pole Li Pole Hi Port Hi Portligl Ports- Crab Stan Pot Ho	s—Pui olders- Hook igger ghts ghts Hook Hook Tages ts Rudde Rail chion olders	Batter	1£	3, 19, 	134 184 20 18 134 19 142 83 84 99 133 133 85
Plunger Pole Hi Boat Outr Pole Li Pole Hi Port Hi Portligl Ports- Crab Stan Pot Ho	s—Pui olders- Hook igger ghts ghts Hook Hook Tages ts Rudde Rail chion olders	Batter	1£	3, 19, 	134 184 20 18 134 19 142 83 84 99 133 133 85
Plunger Pole He Boat Outr Pole Li Poles Boat Flag Portlig Portlig Portlig Portig Ports Crab Stan Pot He Propell Protes	s—Pui olders- Hook igger ghts Hook Hook Rail chion olders ers tors	Batter Batter	y18	3, 19, 	76 134 184 20 18 134 19 142 83 84 99 133 132 85 133 85 64
Plunger Pole He Boat Outr Pole Li Poles Boat Flag Portlig Portlig Portlig Portig Ports Crab Stan Pot He Propell Protes	s—Pui olders- Hook igger ghts Hook Hook Rail chion olders ers tors	Batter Batter	y18	3, 19, 	76 134 184 20 18 134 19 142 83 84 99 133 132 85 133 85 64
Plunger Pole He Boat Outr Pole Li Poles Boat Flag Portlig Portlig Portlig Portig Ports Crab Stan Pot He Propell Protes	s—Pui olders- Hook igger ghts Hook Hook Rail chion olders ers tors	Batter Batter	y18	3, 19, 	76 134 184 20 18 134 19 142 83 84 99 133 132 85 133 85 64
Plunger Pole He Boat Outr Pole Li Poles Boat Flag Portlig Portlig Portlig Portig Ports Crab Stan Pot He Propell Protes	s—Pui olders- Hook igger ghts Hook Hook Rail chion olders ers tors	Batter Batter	y18	3, 19, 	76 134 184 20 18 134 19 142 83 84 99 133 132 85 133 85 64
Plunger Pole He Boat Outr Pole Li Poles Boat Flag Port H Portlig! Portig! Portig! Portig! Ports Grab Stan Pot He Propell Protes Pulleys Pulleys Side	s—Pu olders- Hook igger ghts Hook inges ts Rail chion olders ers tors p	Batter Batter	y	3, 19, 18, 	76 134 184 20 134 19 142 83 84 99 133 132 85 133 132 85 133 132 85 133 132 133 132 133 133 133 133 133 133
Plunger Pole He Boat Outr Pole Li Poles Boat Flag Port H Portlig! Portig! Portig! Portig! Ports Grab Stan Pot He Propell Protes Pulleys Pulleys Side	s—Pu olders- Hook igger ghts Hook inges ts Rail chion olders ers tors p	Batter Batter	y	3, 19, 18, 	76 134 184 20 134 19 142 83 84 99 133 132 85 133 132 85 133 132 85 133 132 133 132 133 133 133 133 133 133
Plunger Pole He Boat Outr Pole Li Poles Boat Flag Port H Portlig! Portig! Portig! Portig! Ports Grab Stan Pot He Propell Protes Pulleys Pulleys Side	s—Pu olders- Hook igger ghts Hook inges ts Rail chion olders ers tors p	Batter Batter	y	3, 19, 18, 	76 134 184 20 134 19 142 83 84 99 133 132 85 133 132 85 133 132 85 133 132 133 132 133 133 133 133 133 133
Plunger Pole He Boat Outr Pole Li Poles Boat Flag Port H Portlig! Portig! Portig! Portig! Ports Grab Stan Pot He Propell Protes Pulleys Pulleys Side	s—Pu olders- Hook igger ghts Hook inges ts Rail chion olders ers tors p	Batter Batter	y	3, 19, 18, 	76 134 184 20 134 19 142 83 84 99 133 132 85 133 132 85 133 132 85 133 132 133 132 133 133 133 133 133 133
Plunger Pole Hi Boat Outr Pole Li Pole Li Portigl Portligl Portligl Portligl Ports- Crab Stan Pot He Propell Protrac Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys Pulleys P	- Pui olders- Hook igger ghts - Hook inges the Constant - Rudde Rail chion olders ers - ring Ro el Eyer r Rope	Batter Batter	y	3, 19, 18, 82	76 134 184 20 18 134 19 142 83 132 133 133 133 133 133 135 165 165 165 77
Plunger Pole Hi Boat Outr Pole Li Pole Li Portligl Portligl Portligl Ports- Crab Stan Pot He Protra Pule Protra Pule Stan Stan Side Stee Swiv Tille	- Pui olders- Hook igger ghts - Hook inges the Rail chion olders ers - ring Rail chion olders - ring Rail chion ring chion ring	Batter Batter	y	3, 19, 18, 82	76 134 184 20 18 134 19 142 83 132 133 133 133 133 133 135 165 165 165 77
Plunger Pole He Boat Outr Pole Li Poles Boat Flag Port H Portlig! Ports Grab Stan Pot He Propell Protes Pulleys Pulleys Stee Swiv Tille	- Pui olders- Hook igger ghts - Hook inges to Rail chion olders ers tors- p ring R rel Eye r Rope Type e Rope	mp Batter Batter		3, 19, 18, 82	76 134 184 20 18 134 19 142 83 132 85 133 132 85 165 165 165 165 165
Plunger Pole He Boat Outr Pole Li Poles Boat Flag Port He Portlig Portig Ports Grab Stan Pot He Propell Protec Stan Pot He Propell Protec Stan Stan Pot He Propel Side Stee Stee Stee Stee Stee Stee Stee St	- Pui olders- Hook igger ghts - Hook inges to Rail chion olders ers tors- p ring R rel Eye r Rope	mp Batter Batter		3, 19, 18, 82, 163,	76 134 184 , 20 18 134 , 9 133 85 133 84 99 133 132 85 133 132 133 132 133 132 133 132 133 133
Plunger Pole Hi Boat Outr Pole Li Pole S- Crab Stan Port He Protrig Ports Pulleys Pulleys Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley Pulley	- Pui olders- Hook igger ghts ghts Hook inges the Rudde Rail chion olders ers ring R rel Eye r Rope Type Rope	Batter Batter		3, 19, 18, 82	76 134 184 200 18 134 99 142 83 84 99 142 83 132 84 99 133 132 85 165 165 165 165 165 165 165 165 165 16

## ALPHABETICAL INDEX

#### P

	P	age
Pump— Handles		76
Parts, Brass		
Plungers		
Rods		
Strainers	69,	70
Valves		
Pumps-		
Basin	.72.	73
Bilge		75
Crank Case		71
Diaphragm		
Force		74
Galley	73,	75
Gear	68,	77
Oil		71
Rotary		75
Sump		
Trench		
Wing		
Punches-Grommet Hole		182

## Q

Quadrants-	_
Tiller	100
Skylight	

#### R

Racing-	
Buoys	187
Cleats	
Radial and Thrust Bearings	103
Rail-	
Fittings 132,	133
Hinge	133
Hinge Raisers—Skylight Range Lights 24, 26, 28 Rear Bearings 102, Receptacles—Watertight	145
Range Lights 24, 26, 28	3, 30
Rear Bearings 102.	103
Receptacles-Watertight	. 52
Reflectors	. 47
Refrigerator-	
Hinges	.144
Fasteners	144
Levera	144
Levers Regulations of Motor Boats	4
Relays-Remote Control	118
Relays—Remote Control	177
Remote Controls	115
Reverse Gear Controls	100
Riding Bitts	120
Rigging.	
Nigging—	
Colmonized	161
Galvanized	
Rigging— Galvanized Stainless Steel	
Rigging Cleats Rigging Turnbuckles—Bronze	171
Rigging Cleats Rigging Turnbuckles—Bronze	171
Rigging Cleats Rigging Turnbuckles—Bronze Rim Locks 138 Ring Catches—Flush	171
Rigging Cleats Rigging Turnbuckles—Bronze Rim Locks 138 Ring Catches—Flush Ring—	171 176 139 141
Rigging Cleats Rigging Turnbuckles—Bronze Rim Locks 138 Ring Catches—Flush Ring— and Deck Strap	171 176 139 141
Rigging Cleats Rigging Turnbuckles—Bronze Rim Locks 138 Ring Catches—Flush Ring— and Deck Strap	171 176 139 141
Rigging Cleats Rigging Turnbuckles—Bronze Rim Locks 138 Ring Catches—Flush Ring— and Deck Strap Bolts 155, Buov Holders	171 176 , 139 141 130 156 134
Rigging Cleats Rigging Turnbuckles—Bronze Rim Locks 138 Ring Catches—Flush Ring— and Deck Strap Bolts 155, Buov Holders on Plate	171 176 , 139 141 130 156 134
Rigging Cleats Rigging Turnbuckles—Bronze Rim Locks 138 Ring Catches—Flush Ring— and Deck Strap Bolts 155, Buov Holders on Plate Rings—	171 176 , 139 141 130 156 134 130
Rigging Cleats Rigging Turnbuckles—Bronze Rim Locks 138 Ring Catches—Flush Ring— and Deck Strap Bolts 155, Buov Holders on Plate Rings— Bow	171 176 , 139 141 130 156 134 130 131
Rigging Cleats Rigging Turnbuckles—Bronze Rim Locks 138 Ring Catches—Flush Ring— and Deck Strap Bolts 155, Buov Holders on Plate Rings— Bow Brass	171 176 139 141 130 156 134 130 131 181
Rigging Cleats Rigging Turnbuckles—Bronze Rim Locks 138 Ring Catches—Flush Ring— and Deck Strap Bolts 155, Buov Holders on Plate Rings— Bow Brass Grommet	171 176 139 141 130 156 134 130 131 181
Rigging Cleats Rigging Turnbuckles—Bronze Rim Locks 138 Ring Catches—Flush Ring— and Deck Strap Bolts 155, Buov Holders on Plate Rings— Bow Brass Grommet Jib	101 171 176 139 141 130 156 134 130 131 181 183 181
Rigging Cleats Rigging Turnbuckles—Bronze Rim Locks 138 Ring Catches—Flush Ring— and Deck Strap Bolts 155, Buov Holders on Plate Rings— Bow Brass Grommet [ib Lifting	101 171 176 139 141 130 156 134 130 131 181 183 181 131
Rigging Cleats Rigging Turnbuckles—Bronze Rim Locks 138 Ring Catches—Flush Ring— and Deck Strap Bolts 155, Buov Holders on Plate Rings— Bow Brass Grommet Jib Lifting Ventilator	171 176 139 141 130 156 134 130 131 181 183 181 131 122
Rigging Cleats Rigging Turnbuckles—Bronze Rim Locks 138 Ring Catches—Flush Ring— and Deck Strap Bolts 155, Buov Holders on Plate Rings— Bow Brass Grommet Jib Lifting Ventilator Rivet Eyebolts	101 171 176 139 141 130 156 134 130 131 181 183 181 131 122 156
Rigging Cleats Rigging Turnbuckles—Bronze Rim Locks 138 Ring Catches—Flush Ring— and Deck Strap Bolts 155, Buov Holders on Plate Rings— Bow Brass Grommet Jib Lifting Ventilator Rivet Eyebolts Rivet Ringbolts	171 176 139 141 130 156 134 130 131 181 183 181 131 122 156
Rigging Cleats Rigging Turnbuckles—Bronze Rim Locks 138 Ring Catches—Flush Ring— and Deck Strap Bolts 155, Buov Holders on Plate Rings— Bow Brass Grommet Jib Lifting Ventilator Rivet Eyebolts	171 176 139 141 130 156 134 130 131 181 181 181 131 122 156 186

#### R

1	Page
Roller-Dock	.117
Roller Jam Cleats	.174
Rope—	
Clamps	.162
Clips	153
Deck Pipe 123,	129
Ladders	
Sheaves	.162
Stainless Steel Wire	.161
Tiller	162
Rotary Pumps	. 75
Rotary Pumps	137
Rubber Bearings-Goodrich	.104
Rubber Engine Mountings	105
Rubber Hose 70	. 77
Rubber for Portlights	84
Rubber for Windshields	117
Rubber Stern Bearings	
Rudder-	
Braces	101
Collars	
Fittings, Sliding	101
Pipes	100
Porta	
Shoes 99.	100
Shoes	
Skags	100
	100 100 100

## S

"S" Hooks	152
Safety Hasps	141
Sail_	
Slides	175
Thimbles	149
Track	175
Track Sail Boat Side Lights	11
C 1 1	
Needles	104
Palms	104
Sand Anchors	104
Sash—	189
Jasn	
Anti Rattlers	140
Fasteners 145,	146
Hinges	
Lifts	
Scoop Strainers	
Scoops—Air	. 84
Scrapers-	
Boat	
Oval	
Ship	185
Tree	185
Yacht	185
Screens-	
Portlight	. 84
Side Lights	. 47
Screw-	
Eye Bolts	154
Eye on Plate	177
Hooks	
Ring Bolts	
¢	
Cap	157
Lag	159
Sea Anchor Cans	51
Sea Anchors	51
Sea Cocki	81
Seaming Palms	184
Searchlights	61
Searchights	01
Searchlight-	AF
Bulbs	43
Lenses	41

S	
P	age
Reflectors Sets-Mast	47
Anchor Bronze Block	148
Chain	148
Snap	171
Stainless Steel	151
Sh-d-	
Holophane	48 47
Shaft	
Collars Couplings	102
Logs	108
Shanks-Dart	184
Masthead	174
Rope	162
Shield Escutcheons Shields-Color	44
Shin	
Bolts Cleats	141
Scrapera	185
Ventilators Shroud Tangs	91
CI J Dekkermy Linder 12 13	17
Side Light Boxes Side Light Boxes Side Lights— American Improved 26, Cast Bronze De-Lite, Class 2 and 38, 9, Flat Top, Large Size	47
Side Lights-	27
Cast Bronze	16
De-Lite, Class 2 and 38, 9,	16
Flat Iop, Large Size	10
Old Style Streamline Turret Top, Large Size 24	16
Turret Top, Large Size 24, Waterproof	25
Side Pulleys	165
Signal Balls	35
Fristrums	່ວວ
Horns 118, 119,	120
Lights Signals—Distress	23
Silencers-Maxim	96
Silencers—Maxim Sinks—Galley Sirens—Electric	79
Skags-Rudder	100
Skags-Rudder	126
Skylight— Fasteners	145
Hinges	145
Quadrants Raisers	145
Slides	
Clew Outhaul	175
Mast Sliding Rudder Fittings	101
Small Eve Hooks	152
Smoke Bells Snap Hooks—Jib	41
Snap Shackles	171
Snaps	
Fast Eve	180
lib	180
Swivel Eye Snatch Blocks	180
Socket Holders	. 44
Sockets- Awning	120
Awning Control Rod	116
Control Wire	.116

## ALPHABETICAL INDEX S

## S

J	age
Deck	53
Electric	54
Hand Rail	129
Mogul	132
Wire Rope	176
Sounding Loads	116
Sounding Leads Span Lights	110
Spark and Throttle Controls	33
114	115
Spikes-Marlin Spinnaker Pole Fittings	185
Spinnaker Pole Fittings	173
Spreaders Spring Hinges Square Neck Bolts	175
Spring Hinges	141
Square Neck Bolts	141
Staff Lights Stainless Steel	36
Stainless Steel-	
Shackles	161
Thimbles Wire Rope	161
Wire Kope	161
Stanchions Steerers 110, 111, 112,	132
Steerers	113
Steerers- Bracket	112
Chain	
Geared	112
Recing	110
Racing Steering Rope Pulleys Steps—Hinged Mast Stern Bearings 106, Stern Bearings—Rubber	165
Steps-Hinged Mast	123
Stern Bearings 106.	107
Stern Bearings-Rubber	105
Stern Chocks 125, 126.	127
Stern Lights-	
Stern Lights- American Improved	26
De-Lite, Class I	7
Pole Lights	7 20
De-Lite, Class 1 Pole Lights 18, 19, Turret Top	7 20 24
	7 20 24
	7 20 24
	7 20 24
Vaterproof Stools—Folding Stove Bolts Stoves—Alcohol	7 20 24
Vaterproof Stools—Folding Stove Bolts Stoves—Alcohol	7 20 24 28 111 157 87
Vaterproof Stools—Folding Stove Bolts Stoves—Alcohol	7 20 24 28 111 157 87 97
Vaterproof Stools—Folding Stove Bolts Stoves—Alcohol	7 20 24 28 111 157 87 97 81
Vaterproof Stools—Folding Stove Bolts Stoves—Alcohol	7 20 24 28 111 157 87 97 81 70
Vaterproof Stools—Folding Stove Bolts Stoves—Alcohol	7 20 24 28 111 157 87 97 81 70 97
Iurret Iop         Waterproof         Stools—Folding         Stove Bolts         Stove—Alcohol         Strainers—         Gasolene         Inlet         Pump         Gasolene         Strap Hinges	7 20 24 28 111 157 87 97 81 70 97 142
Iurret Iop         Waterproof         Stools—Folding         Stove Bolts         Stove—Alcohol         Strainers—         Gasolene         Inlet         Pump         Gasolene         Strap Hinges	7 20 24 28 111 157 87 97 81 70 97 142
Iurret Iop         Waterproof         Stools—Folding         Stoves—Folding         Stoves—Alcohol         Strainers—         Gasolene         Inlet         Pump         G9,         Water         Strap Hinges         Strap         Bobstay         Cable	7 20 24 28 111 157 87 97 81 70 97 .142 .180
Iurret Iop         Waterproof         Stools—Folding         Stoves—Folding         Stoves—Alcohol         Strainers—         Gasolene         Inlet         Pump         G9,         Water         Strap Hinges         Strap         Bobstay         Cable	7 20 24 28 111 157 87 97 81 70 97 .142 .180
Iurret Iop         Waterproof         Stools—Folding         Stoves—Folding         Stoves—Alcohol         Strainers—         Gasolene         Inlet         Pump         G9,         Water         Strap Hinges         Strap         Bobstay         Cable	7 20 24 28 111 157 87 97 81 70 97 .142 .180
Iurret Iop         Waterproof         Stools—Folding         Stoves—Folding         Stoves—Alcohol         Strainers—         Gasolene         Inlet         Pump         G9,         Water         Strap Hinges         Strap         Bobstay         Cable	7 20 24 28 111 157 87 97 81 70 97 .142 .180
Iurret Iop         Waterproof         Stools—Folding         Stove Bolts         Stoves—Alcohol         Strainers—         Gasolene         Inlet         Pump         69,         Water         Strap Hinges         Strap —         Bobstay	7 20 24 28 111 157 87 97 81 70 97 .142 .180
Vaterproof Stools—Folding Stove Bolts Stoves—Alcohol	7 20 24 28 111 157 87 97 87 97 87 97 142 180 55 179 171 171
Iurret Iop         Waterproof         Stools—Folding         Stoves—Folding         Stoves—Alcohol         Strainers—         Gasolene         Inlet         Pump         G9,         Water         Strap—         Bobstay         Cable         Centerboard Hoisting         Deck         130,         Eye         Bitts         Chocks	7 200 24 28 111 157 87 97 .81 .87 .97 .81 .87 .97 .42 .180 .55 .179 171 .171 .129 .127
Iurret Iop         Waterproof         Stools—Folding         Stoves—Alcohol         Stoves—Alcohol         Strainers—         Gasolene         Inlet         Pump         Gasolene         Inlet         Strap         Bobstay         Cable         Centerboard Hoisting         Deck         Bitts         Chocks         Cleats	7 200 24 28 111 157 87 97 87 97 87 97 142 180 .55 179 171 171 129 127 127
Iurret Iop         Waterproof         StoolsFolding         Stove Bolts         StovesAlcohol         StoresAlcohol         Strainers         Gasolene         Inlet         Pump         Gasolene         Strap Hinges         Strap Hinges         Strap -         Bobstay         Cable         Centerboard Hoisting         Deck         Bitts         Chocks         Cleats         Flag Pole Sockets	7 200 24 28 111 157 87 97 81 97 97 87 97 142 1800 55 5179 171 171 171 129 1277 127
Iurret Iop         Waterproof         StoolsFolding         Stove Bolts         StovesAlcohol         StoresAlcohol         Strainers         Gasolene         Inlet         Pump         Gasolene         Strap Hinges         Strap Hinges         Cable         Centerboard Hoisting         Deck         Bitts         Chocks         Cleats         Flag Pole Sockets	7 200 24 28 111 157 87 97 81 97 97 87 97 142 1800 55 5179 171 171 171 129 1277 127
Iurret Iop         Waterproof         Stools—Folding         Stove Bolts         Stove Bolts         Stoves—Alcohol         Strainers—         Gasolene         Inlet         Pump         Gasolene         Inlet         Pump         Gasolene         Strap—         Bobstay         Cable         Centerboard Hoisting         Deck         130,         Eye         Streamlin—         Bitts         Chocks         Cleats         Flag Pole Sockets         Lights       14, 15,         Ring on Plate	7 200 24 28 111 157 87 97 81 97 142 180 55 171 171 171 129 127 127 129 130
Vaterproof Waterproof Stools—Folding Stove Bolts Stoves—Alcohol	7 200 24 28 111 157 87 97 142 180 55 179 171 171 171 129 127 127 129 6 1300 95
Iurret Iop         Waterproof         Stools—Folding         Stoves—Folding         Stoves—Alcohol         Strainers—         Gasolene         Inlet         Pump         Gasolene         Inlet         Pump         Gasolene         Strap—         Bobstay         Cable         Centerboard Hoisting         Deck         Deck         Streamlin—         Bitts         Chocks         Cleats         Flag Pole Sockets         Lights       14, 15,         Ring on Plate       94         Struts—Adjustable	7 200 24 28 111 157 87 97 81 97 142 180 55 179 171 171 129 127 127 129 6 1300 95 108
Iurret Iop         Waterproof         Stools—Folding         Stoves—Alcohol         Stoves—Alcohol         Strainers—         Gasolene         Inlet         Pump         Gasolene         Inlet         Pump         Gasolene         Strap—         Bobstay         Cable         Centerboard Hoisting         Deck         Deck         Streamlin—         Bitts         Chocks         Cleats         Flag Pole Sockets         Lights       14, 15,         Ring on Plate       94         Struts—Adjustable         Stuffing Boxes       100, 106, 107,	7 200 24 28 111 157 87 97 87 97 142 180 55 179 171 127 127 127 127 127 127 130 95 108
Iurret Iop         Waterproof         Stools—Folding         Stoves—Alcohol         Stoves—Alcohol         Strainers—         Gasolene         Inlet         Pump         Gasolene         Inlet         Pump         Gasolene         Strap—         Bobstay         Cable         Centerboard Hoisting         Deck         Deck         Streamlin—         Bitts         Chocks         Cleats         Flag Pole Sockets         Lights       14, 15,         Ring on Plate       94         Struts—Adjustable         Stuffing Boxes       100, 106, 107,	7 200 24 28 111 157 87 97 87 97 142 180 55 179 171 127 127 127 127 127 127 130 95 108
Iurret Iop         Waterproof         Stools—Folding         Stove Bolts         Stove Bolts         Stoves—Alcohol         Strainers—         Gasolene         Inlet         Pump         Gasolene         Inlet         Pump         Gasolene         Inlet         Pump         Gasolene         Strap—         Bobstay         Cable         Centerboard Hoisting         Deck       130,         Eye         Streamline—         Bitts         Chocks         Cleats         Flag Pole Sockets         Lights       14, 15,         Ring on Plate         Ventilators       94         Struts—Adjustable         Stuffing Boxes       100, 106, 107,         Sump Pumps	7 200 244 28 111 1577 87 97 142 180 55 179 171 129 1277 1277 129 1277 129 127 129 127 129 127 129 127 129 127 129 127 129 127 129 127 129 127 129 127 129 127 129 127 129 127 129 127 129 127 129 127 129 127 129 127 129 127 129 127 129 127 129 127 129 127 129 127 129 127 129 129 129 129 129 129 129 129 129 129
Iurret Iop         Waterproof         Stools—Folding         Stoves—Alcohol         Stoves—Alcohol         Strainers—         Gasolene         Inlet         Pump         Gasolene         Inlet         Pump         Gasolene         Strap—         Bobstay         Cable         Centerboard Hoisting         Deck         Deck         Streamlin—         Bitts         Chocks         Cleats         Flag Pole Sockets         Lights       14, 15,         Ring on Plate       94         Struts—Adjustable         Stuffing Boxes       100, 106, 107,	7 200 24 28 111 157 87 97 81 70 97 142 180 55 179 171 129 127 127 129 6 130 95 108 108 75 157

	Page
Switches-	
Battery	
Electric	52, 54, 55
Watertight	52
Swivel-	
Anchors	188
Deck Leaders	
Eye Blocks	
Eye Pulleys	105
Eye Snaps	
Rings	
Shackles	
Swivels	
Swivels-Fishing	
Sword Fish Darts	

#### Т

-	
Table Lamps	193
Tail Pieces	0.5
Iail Fieces	. 00
Tangs	179
Tanks-Alcohol	85
Telegraph Chain	121
Telegraph Fittings	121
Telegraph Chain Telegraph Fittings Ten Day Anchor Lights—Oil	11
Ten Day Anchor Lights-Off	
Thimbles	
Bronze Wire Rone	149
M 1 D	140
Manila Rope	
Sail	.149
Solid	
	101
Stainless Steel	.161
Wire Rope 149.	161
Thinks Day Anahay Links	
Inirty Day Anchor Lights-	
Stainless Steel Wire Rope 149, Thirty Day Anchor Lights- Electric	. 11
Throttle Controls 114,	115
Thrust and Radial Bearings	102
Inrust and Radial Dearings	103
Thrust Bearings 102,	103
Tiller-	
Clamps	100
Guides	.163
Pulleys	
Rope	162
Sheaves	
Tillers	
Tips-	
Oar	137
Paddle	.137
Toggles	.176
Toilets	
Torches	65
Towing Lights	. 30
Towing Hooks	152
Towing HOOKS	134
Towing Hooks Track—Mast	
Trap Lanterns	11
Trays-Ash	107
	197
Travelers	
Boom Plate	.171
Deck	
Deck	
Snipe	179
Trawl Anchors	189
T	2.
Trawler Lights	37
Trench Pumps-Galvanized	71
Trim-Hatch	147
Trip Hooks-Anchor	101
Irip Hooks-Anchor	191
Trouble Lights	13
Trucks-Masthead	174
II MCAS IVIGELIICAL	
Turbine Ventilators	90
Turnbuckles-	

Brass 15 Bronze 17 Open 150, 15 Pipe 15 Rigging 17 Turns—Cupboard 14 U Universal Joints 10 V Valves— Check 9 Pump 7 Whistle 12 Ventilators— Clam Shell 9 Cruiser 9 Engine Compartment 9 Fan Type 8 Hood 91, 92, 9 Oval Mouth 94, 99	176 150, 151 151 140 140 103 96 76 120 95 94 nt 94 91, 92, 93 91 94, 95 90
Bronze 17 Open 150, 15 Pipe 15 Rigging 17 Turns—Cupboard 14 U Universal Joints 10 V Valves— Check 9 Pump 7 Whistle 12 Ventilators— Clam Shell 9 Cruiser 9 Engine Compartment 9 Fan Type 9 Ice Box 9 Oval Mouth 9 Streamline 94, 9 Turbine 9 W Wall Lamps 40, 4 Wardrobe Hooks 143, 14	176 150, 151 151 140 140 103 96 76 120 95 94 nt 94 91, 92, 93 91 94, 95 90
Open 150, 15 Pipe 15 Rigging 17 Turns—Cupboard 14 U Universal Joints 10 V Valves— Check 9 Pump 7 Whisle 12 Ventilators— Clam Shell 9 Cruiser 9 Engine Compartment 9 Fan Type 9 Ice Box 9 Oval Mouth 9 Streamline 94, 9 Turbine 9 W Wall Lamps 40, 4 Wardrobe Hooks 143, 14	150, 151 151 176 140 103 96 76 76 120 95 94 nt 94 91 91, 92, 93 91 91 94, 95 91 91 92, 93
Rigging       17         Turns—Cupboard       14         U       U         Universal Joints       10         V       V         Valves—       Check         Check       9         Pump       7         Whiatle       12         Ventilators—       Clam Shell         Cruiser       9         Engine Compartment       9         Fan Type       91, 92, 92         Ice Box       9         Oval Mouth       94, 97         Turbine       W         Wall Lamps       40, 4         Wardrobe Hooks       143, 14	176 140 103 96 76 120 95 94 nt 94 91 91, 92, 93 91 91 94, 95 90
Rigging       17         Turns—Cupboard       14         U       U         Universal Joints       10         V       V         Valves—       Check         Check       9         Pump       7         Whiatle       12         Ventilators—       Clam Shell         Cruiser       9         Engine Compartment       9         Fan Type       91, 92, 92         Ice Box       9         Oval Mouth       94, 97         Turbine       W         Wall Lamps       40, 4         Wardrobe Hooks       143, 14	176 140 103 96 76 120 95 94 nt 94 91 91, 92, 93 91 91 94, 95 90
Rigging       17         Turns—Cupboard       14         U       U         Universal Joints       10         V       V         Valves—       Check         Check       9         Pump       7         Whiatle       12         Ventilators—       Clam Shell         Cruiser       9         Engine Compartment       9         Fan Type       91, 92, 92         Ice Box       9         Oval Mouth       94, 97         Turbine       W         Wall Lamps       40, 4         Wardrobe Hooks       143, 14	176 140 103 96 76 120 95 94 nt 94 91 91, 92, 93 91 91 94, 95 90
U Universal Joints 10 V Valves Check 9 Pump 7 Whistle 12 Ventilators Clam Shell 9 Cruiser 9 Engine Compartment 9 Fan Type 9 Hood 91, 92, 9 Ice Box 9 Oval Mouth 99 Streamline 94, 9 Turbine 9 W Wall Lamps 40, 4 Wardrobe Hooks 143, 14	103 96 76 120 95 94 95 94 95 91 91 91 91 91 91 91 91 91 91 91 91 95 91 91 91 91 91 95 91 91 91 95 91 91 95 91 95 95 95 95 95 95 95 95 95 95 95 95 95
U Universal Joints 10 V Valves Check 9 Pump 7 Whistle 12 Ventilators Clam Shell 9 Cruiser 9 Engine Compartment 9 Fan Type 9 Hood 91, 92, 9 Ice Box 9 Oval Mouth 99 Streamline 94, 9 Turbine 9 W Wall Lamps 40, 4 Wardrobe Hooks 143, 14	103 96 76 120 95 94 95 94 95 91 91 91 91 91 91 91 91 91 91 91 91 95 91 91 91 91 91 95 91 91 91 95 91 91 95 91 95 95 95 95 95 95 95 95 95 95 95 95 95
Universal Joints 10 V Valves— Check 9 Pump 7 Whistle 12 Ventilators— Clam Shell 9 Cruiser 9 Engine Compartment 9 Fan Type 8 Hood 91, 92, 9 Ice Box 94, 9 Turbine 94, 9 Turbine 94, 9 Wall Lamps 40, 4 Wardrobe Hooks 143, 14	96 76 120 95 94 nt 94 91 91, 92, 93 91 91 91 91 94, 95 90
Valves- Check 9 Pump 7 Whistle 12 Ventilators- Clam Shell 9 Cruiser 9 Engine Compartment 9 Fan Type 9 Hood 91, 92, 9 Ice Box 9 Oval Mouth 99 Streamline 94, 9 Turbine 9 Wall Lamps 40, 4 Wardrobe Hooks 143, 14	96 76 120 95 94 nt 94 91 91, 92, 93 91 91 91 91 94, 95 90
Valves- Check 9 Pump 7 Whistle 12 Ventilators- Clam Shell 9 Cruiser 9 Engine Compartment 9 Fan Type 9 Hood 91, 92, 9 Ice Box 9 Oval Mouth 99 Streamline 94, 9 Turbine 9 Wall Lamps 40, 4 Wardrobe Hooks 143, 14	96 76 120 95 94 nt 94 91 91, 92, 93 91 91 91 91 94, 95 90
Check 9 Pump 7 Whistle 12 Ventilators— Clam Shell 9 Cruiser 9 Engine Compartment 9 Fan Type 91, 92, 9 Ice Box 91, 92, 9 Ice Box 94, 97 Turbine 94, 97 Wall Lamps 40, 4 Wardrobe Hooks 143, 14	70 120 95 94 nt 94 91, 92, 93 91, 92, 93 91 91 91 94, 95 90
Check 9 Pump 7 Whistle 12 Ventilators— Clam Shell 9 Cruiser 9 Engine Compartment 9 Fan Type 91, 92, 9 Ice Box 91, 92, 9 Ice Box 94, 97 Turbine 94, 97 Wall Lamps 40, 4 Wardrobe Hooks 143, 14	70 120 95 94 nt 94 91, 92, 93 91, 92, 93 91 91 91 94, 95 90
Pump       12         Whistle       12         Ventilators       12         Clam Shell       9         Cruiser       9         Engine Compartment       9         Fan Type       91, 92, 9         Ice Box       9         Oval Mouth       94, 9         Turbine       9         Wall Lamps       40, 4         Wardrobe Hooks       143, 14	70 120 95 94 nt 94 91, 92, 93 91, 92, 93 91 91 91 94, 95 90
Ventilators	95 94 nt 94 91, 92, 93 91, 92, 93 91 91 91 91 94, 95 90
Ventilators	95 94 nt 94 91, 92, 93 91, 92, 93 91 91 91 91 94, 95 90
Clam Shell 9 Cruiser 9 Engine Compartment 9 Fan Type 9 Hood 91, 92, 9 Ice Box 9 Oval Mouth 9 Streamline 94, 9 Turbine 94 Wall Lamps 40, 4 Wardrobe Hooks 143, 14	94 94 99 91, 92, 93 91 91 91 91 91 94, 95 90
Cruiser 99 Engine Compartment 99 Fan Type 91, 92, 99 Ice Box 91, 92, 99 Ice Box 94, 95 Oval Mouth 94, 97 Turbine 94, 99 Wall Lamps 40, 40 Wardrobe Hooks 143, 14	94 94 99 91, 92, 93 91 91 91 91 91 94, 95 90
Engine Compartment Fan Type Hood Ice Box Oval Mouth Streamline Turbine W Wall Lamps 40, 4 Wardrobe Hooks 143, 14	nt 94 89 91, 92, 93 91 91 94, 95 90
Fan Type 8 Hood 91, 92, 9 Ice Box 9 Oval Mouth 94, 9 Turbine 94, 9 Wall Lamps 40, 4 Wardrobe Hooks 143, 14	89 91, 92, 93 91 91 94, 95 90
Hood 91, 92, 9 Ice Box 9 Oval Mouth 94, 9 Turbine 94, 9 Wall Lamps 40, 4 Wardrobe Hooks 143, 14	91, 92, 93 91 91 94, 95 90
Ice Box 9 Oval Mouth 9 Streamline 94, 9 Turbine W Wall Lamps 40, 4 Wardrobe Hooks 143, 14	91 91 94, 95 90
Oval Mouth 5 Streamline 94, 9 Turbine 9 Wall Lamps 40, 4 Wardrobe Hooks 143, 14	91 94, 95 90
Streamline 94, 9 Turbine 9 Wall Lamps 40, 4 Wardrobe Hooks 143, 14	94, 95 90
Turbine 9 W Wall Lamps 40, 4 Wardrobe Hooks 143, 14	
Wall Lamps 40, 4 Wardrobe Hooks 143, 14	
Wall Lamps 40, 4 Wardrobe Hooks 143, 14	
	40 41
	143. 144
Water Breakers Water Heater-Alcohol	
Water Heater-Alcohol	51
Water Heater-Alconor	hal 86
	50
Waterproof Ship Lights 28. 2	te 28. 29
Water Strainers	97
Watertight_	
Watertight- Connections 52, 5	
Junction Box	52, 53
Receptacles	52
Western 8-Day Trap Lanterns	
Wheels-Steering 110, 1	
	52 52 52 Lanterns 11 110, 113
Whistles	52 52 52 Lanterns 11 110, 113 120
Whistles-Air	52 52 52 Lanterns 11 110, 113 120
Wicks	52 52 52 Lanterns 11 110, 113 120
Winches-Katchet	52 52 52 Lanterns 11 110, 113 120 119, 120 120 47
Wind Pennants	52 52 52 Lanterns 11 110, 113 120 119, 120 120 47 178
Windlasses 1	52 52 52 Lanterns 11 110, 113 120 119, 120 
	52 52 52 Lanterns 11 110, 113 120 119, 120 47 47 178 178 188 187
Window Bolts	52 52 52 Lanterns 11 110, 113 120 119, 120 47 47 178 178 178 187 141
Windows—Cabin	52 52 52 Lanterns 11 110, 113 120 119, 120 47 47 178 178 178 187 141
Window Bolts	52 52 52 Lanterns 11 110, 113 120 119, 120 120 178 178 178 187 141 83
Window Bolts 1 Windows—Cabin Windshield— Adjusters 1	52 52 52 Lanterns 11 110, 113 120 119, 120 120 178 178 178 178 187 141 83
Window Bolts 1 Windows—Cabin Windshield— Adjusters 1	52 52 52 Lanterns 11 110, 113 120 119, 120 120 178 178 178 178 187 141 83
Window Bolts 1 Windows—Cabin Windshield— Adjusters 1 Brackets 1 Wing Nuts	52 52 52 52 Lanterns 11 110, 113 120 119, 120 47 178 178 178 187 141 83 117 141 83
Window Bolts       1         Windows—Cabin       1         Windshield—       1         Adjusters       1         Brackets       1         Wing Nuts       1         Wing Pumps       1	52 52 52 52 Lanterns 11 110, 113 120 119, 120 47 178 178 178 187 141 83 117 141 83
Window Bolts 1 Windows—Cabin Windshield— Adjusters 1 Brackets 1 Wing Nuts Wing Pumps Wing Pumps	52 52 52 Lanterns 11 110, 113 120 119, 120 47 178 178 178 187 141 83 117 117 84 68
Window Bolts       1         Windows—Cabin       1         Windshield—       1         Adjusters       1         Brackets       1         Wing Nuts       1         Wing Pumps       1         Bowden       1	52 52 52 Lanterns 11 110, 113 120 119, 120 47 178 178 187 141 83 117 84 68 115
Window Bolts       1         Windows—Cabin       1         Windshield—       1         Adjusters       1         Brackets       1         Wing Nuts       1         Wire—       1         Bowden       1         Rope Clips       1	52 52 52 52 110, 113 120 119, 120 47 178 178 183 183 183 184 183 117 117 84 68 115
Window Bolts       1         Windows—Cabin       1         Windshield—       1         Adjusters       1         Brackets       1         Wing Nuts       1         Wing Pumps       1         Bowden       1         Rope Clips       1         Bowden       1	52 52 52 52 Lanterns 11 110, 113 120 119, 120 47 178 178 178 178 178 178 178 178 178 17
Window Bolts       1         Windows—Cabin       1         Windshield—       1         Adjusters       1         Brackets       1         Wing Nuts       1         Wing Pumps       1         Bowden       1         Rope Clips       1         Bowden       1	52 52 52 52 Lanterns 11 110, 113 120 119, 120 47 178 178 178 178 178 178 178 178 178 17
Window Bolts       1         Windows—Cabin       1         Windshield—       1         Adjusters       1         Brackets       1         Wing Nuts       1         Wing Pumps       1         Wire—       1         Bowden       1         Rope Clips       1         Rope Sockets       1         Rope—Stainless Steel       1	52 52 52 Lanterns 11 110, 113 120 119, 120 47 178 178 188 187 141 83 117 117 117 84 68 115 153 167 176
Window Bolts       1         Windows—Cabin       1         Windshield—       1         Adjusters       1         Brackets       1         Wing Nuts       1         Wing Pumps       1         Bowden       1         Rope Clips       1         Rope Pulleys       1         Rope—Stainless Steel       1         Rope Thimbles       149, 1	52 52 52 52 Lanterns 11 110, 113 120 119, 120 47 178 178 178 178 178 178 178 178 178 17
Window Bolts       1         Windows—Cabin       1         Windshield—       1         Adjusters       1         Brackets       1         Wing Nuts       1         Wing Pumps       1         Bowden       1         Rope Clips       1         Rope Pulleys       1         Rope—Stainless Steel       1         Rope Thimbles       149, 1	52 52 52 52 Lanterns 11 110, 113 120 119, 120 47 178 178 178 178 178 178 178 178 178 17
Window Bolts       1         Windows—Cabin       1         Windshield—       1         Adjusters       1         Brackets       1         Wing Nuts       1         Wing Pumps       1         Bowden       1         Rope Clips       1         Rope Pulleys       1         Rope Sockets       1         Rope Thimbles       149, 1	52 52 52 52 Lanterns 11 110, 113 120 119, 120 47 178 178 178 178 178 178 178 178 178 17

Yardarm Lights

91 22, 23

T

P



