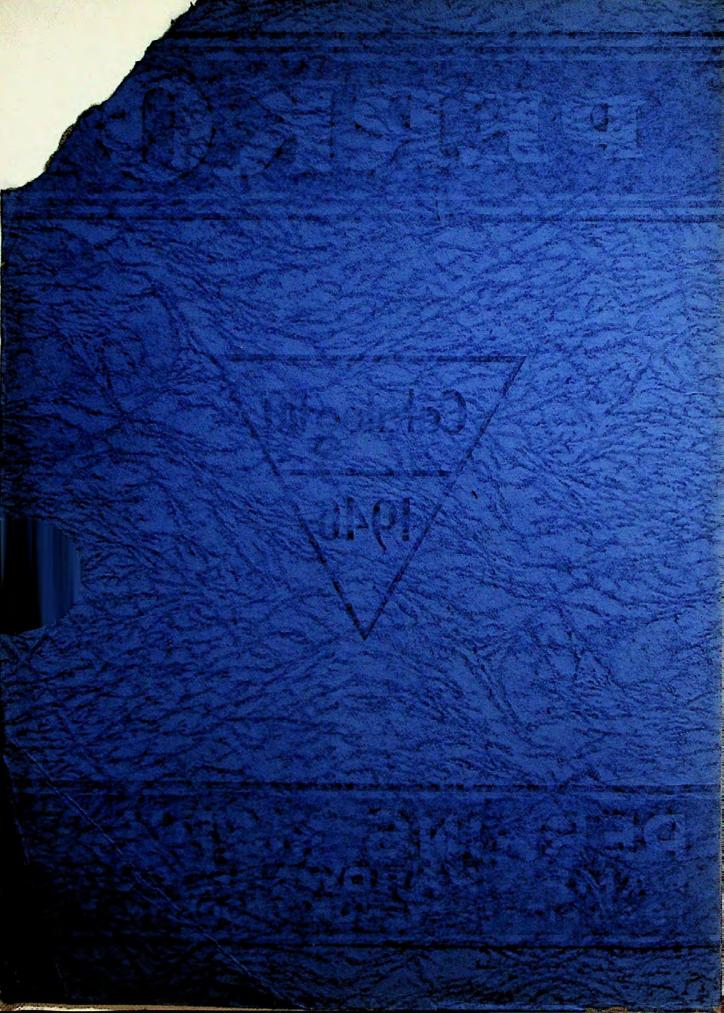
PERCEO

PERHINS MARINE LAMP & HARDWARE CORP. 1943 PITKIN AVENUE BROOKEN, N.Y.



Perkins Marine Lamp And Hardware Corp.

(Incorporated 1917-)

1943 Pitkin Ave., Brooklyn 7, N. Y. 157 Snediker Ave., Brooklyn 7, N. Y.

Manufacturers of

Running Lights, Searchlights, Binnacles, Steering Wheels, Stoves, Gear Pumps,
Air Whistles, Toilets, Lavatories, Yacht Blocks, Brass and
Galvanized Marine Hardware and Sheet Metal Specialties
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Catalog No. 110



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FOREWORD AND GENERAL INFORMATION

TIXXXXII-

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

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

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

PRICES AND TERMS Our costs are subject to change due to causes beyond our control. The prices listed herein are only intended for guidance of our jobbers and do not necessarily establish resale prices. Applicable governmental regulations, shipping costs and other complications must be considered in arriving at a fair price. All prices are subject to change without notice and are F.O.B. New York, unless quoted otherwise. Terms are 30 days net; 2% if payment is sent 10 days from date of invoice.

GUARANTEE

Every item bearing our trade-mark is guaranteed free from defects at time of shipment. In case of defects, adjustments will gladly be made, provided the material is returned to our factory and repairs have not been attempted by other than our own workmen.

RETURN GOODS

Material made to order is not returnable. Stock material is only returnable when permission has been granted by us, and is subject to a handling and refinishing charge.

WEIGHTS

The weights given in this catalog are not guaranteed, but have been carefully determined and should be sufficient for general purposes.

RATING

Orders from firms unknown to us and having no satisfactory commercial rating must be accompanied by cash or satisfactory references. C. O. D. shipments will be made if a 25% deposit is sent with order.

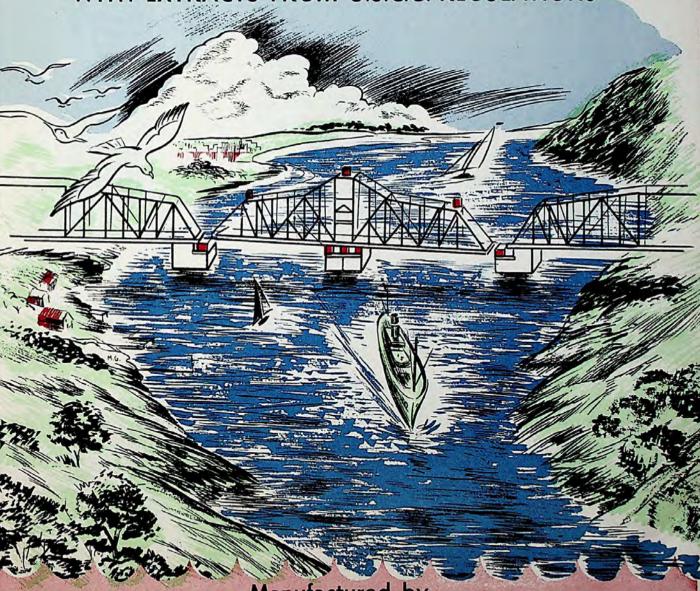
SHIPPING

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



LIGHTS FOR BRIDGES AND PIERS

WITH EXTRACTS FROM U.S.C.G. REGULATIONS



Manufactured by

PERKINS MARINE LAMP & HDWE. CORP.

1943 PITKIN AVENUE

BROOKLYN 7, N. Y.

BOOKLET NO. 133

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PERKO BRIDGE AND PIER LIGHTS

In strict accordance with specifications and regulations of the Treasury Department, U. S. Coast Guard, on marking and lighting of bridges. See "Aids To Navigation" C.G.-208 Subpart 68.15, January 1st, 1949 and pages 7 to 10 in this Booklet.

REGULATION PIER LIGHTS

For Piers, Axis, Abutments, Channel Sides, or Channel Margins
180 Degree Red Fresnel Lens
Body of Sheet Steel or Sheet Brass
Electric Socket Is Phenolic Medium Screw, U.S.C.G. Approved

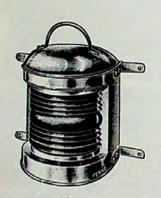


Fig. 29

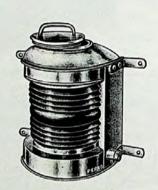


Fig. 31



Fig. 59

- FIG. 29-For electric only. With bottom opening and brass swivel electric adapter.
- FIG. 31-Watertight, for electric only, with cast bronze threaded cap and brass packing gland for cable.
- FIG. 59-For Oil, Electric or Oil and Electric. Has bottom opening and brass swivel fount with burner, wick and chimney for oil, or brass electric adapter for electricity. Both supplied for "Oil and Electric".

All above supplied with four brackets for mounting.

FIG.	Galv. Steel Each	Polished Brass Each	Height Overall Lens Inches	*Height Overall Light Inches	Width Overall Inches	Size Base Inches	Weight Pounds
29 Electric only	\$56.00	\$66.00	7%	131/4	141/2	9% x 9%	9
31 Electric only	62.00	72.00	7 %	1314	141/2	9% x 9%	11
59 Oil or Electric	56.00	66.00	73%	18	141/2	9% x 9 1/s	13
59 Oil and Electric	59.50	59.50	7%	18	141/2	9% x 91/8	13

With Clear Lens for main channel markers on fixed bridges or with green or amber lens for special purpose, use above prices.

*Height of light does not include handle or ring.

SPARE PARTS

Fresnel Lenseseach	\$16.00	Oil Founteach \$3.3	0
Mounting Bracketseach	1.10	Oil Burnereach 1.3	0
Electric Socketeach	.55	Oil Wickseach .0	8
Electric Adaptereach	3.30	Chimneyseach 1.0	0

REGULATION PIER LIGHTS

Cast Bronze or Cast Aluminum - Emery Finish - Watertight For Piers, Axis, Abutments, Channel Sides or Channel Margins 180 Degree Red Fresnel Lens Electric Only — With Phenolic Medium Screw Approved Socket







Fig. 125

Fig. 1005

Fig. 1010

FIG. 1005-Has four integral mounting lugs drilled for % inch diameter bolt and brass packing gland for cable.

FIG. 125-This is fig. 1005 mounted on 1 inch brass pipe and good sturdy cast bronze flange. Brass packing gland for cable with 2 inch pipe and flange, add \$10.00 each.

FIG. 1010-This is fig. 1005 mounted on 2 inch brass pipe and fittings. Standard length of pipe at "A" is 3½ inches. Special length, please specify, price on application.

Cast		Cast	Height Overall	*Height Overall	Width	Size	Weight Pounds		
FIG.	Bronze Each	Aluminum Each	Lens Inches	Light	Light Inches	Base Inches	Bronze	Aluminum	
1005	\$ 77.00	\$ 77.00	7 3/8	91/4	**91/4	8% x 7%	18	12	
125	86.00	86.00	7 3/8	19	81/4	5	24	18	
1010	125.00	125.00	7 %	171/2	81/4	6	28	22	

With clear lens for main channel markers on fixed bridges or with green or amber lens for special purpose, use above prices.



Fig. 126

SPECIAL PURPOSE LIGHTS ON PEDESTAL

With 360 Degree Red, Green, or Clear Lens For Sheer Booms, Isolated Piers, Obstructions, etc. Cast Bronze or Cast Aluminum — Emery Finish Watertight - Electric Only

Mounted on 1 inch brass pipe and good sturdy cast bronze flange. Has phenolic medium screw socket and brass packing gland for cable. Cast threaded cap.

Cast	Cast	Height Overall	*Height Overall	Width	Diam.		Veight ounds
Bronze Each	Aluminum Each	Lens Inches	Light Inches	Light Inches	Base	Br.	Alum.
\$86.00	\$86.00	736	19	1136	5	24	18

This light can be supplied shielded to various degrees as required. Price on application.

*Height of lights shown do not include handle.

NOTE-Figs. 125, 126 and 1010 in special height other than standard, Price on application.

^{*}Height of light does not include handle.

^{**}Width is to centers of mounting holes.

REGULATION SWING, DRAW OR FOLDING BRIDGE LIGHTS

For Span of Through, Deck and Half Through Swing Bridges or Single Opening Draw Bridges with Alternate Red and Green 60 Degree Fresnel Lenses. Socket Is Phenolic Medium Screw, U.S.C.G. Approved.



Fig. 35

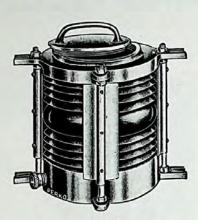


Fig. 39



Fig. 50

- FIG. 35-Watertight, for electric only. Made of sheet metal, either galvanized steel or brass with cast bronze threaded cap and brass packing gland for cable.
- FIG. 39-Watertight, for electric only. Made of cast bronze or cast aluminum in emery finish. With cast threaded cap and packing gland for cable.
- FIG. 50-For Oil, Electric or Oil and Electric. Made of sheet metal, either galvanized steel or brass. Has bottom opening and brass swivel fount with burner, wick and chimney for oil or electric. Adapter for electricity. Both supplied for "Oil and Electric".

		Polished	Cast	Cast	Spare	Height Overall	*Height Overall	**Width	Pounds Pounds	
FIG.	Galv. Each	Brass Each	Bronze Each	Aluminum Each	Lenses Each	Lens	Light	Overall Inches	Br.	Alum.
35 Elec. only	\$71.50	\$81.50			\$8.25	7 3/8	131/4	121/2	131/2	
39 Elec. only			94.00	94.00	8.25	7 %	10	12	22	15
50 Oil or Elec.	59.50	69.50			8.25	73/8	18	121/2	14	
50 Oil and Elec.	62.80	72.80			8.25	7 %	18	121/2	141/2	

BOX TYPE REGULATION DRAW SPAN LIGHTS

With 360 Degree Clear Fresnel Lens Enclosed by Alternate Red and Green Flat Glass Panels Showing 60 Degrees of Light.



FIG. 63-For Oil, Electric or Oil and Electric, made of Sheet Steel and Galvanized. Bottom opening with brass fount or adapter.

FIG. 1007-Watertight, for electric only. Made of cast bronze with threaded cap and packing gland.

FIG.		Galv. Each	Bronze Each	Lens Each	Panels Each
	Oil or Elec. Oil and Elec.	\$80.00 85.50		\$11.50 11.50	\$3.60 3.60
	Elec. only	00.00	108.00	11.50	3.60
	Height Lens	Height Less Hand		dth	Weight

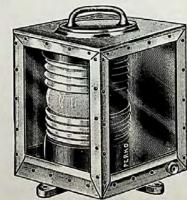


Fig 1007

All lights on this page supplied with one lens or panel shielded for 3 way light (one red, two green) use above prices, please specify.

REGULATION MID-CHANNEL SPAN LIGHTS

For Fixed Bridges 360 Degree Green Fresnel Lens Electric Socket Is Phenolic Medium Screw, U.S.C.G. Approved



Fig. 68



Fig. 1006



Fig. 80

- FIG. 68-For electric only, with bottom opening and brass swivel electric adapter. Made of sheet metal, either galvanized steel or brass.
- FIG. 1006-Watertight, for electric only. Made of cast bronze or cast aluminum in emery finish. With cast threaded cap and brass packing gland.
- FIG. 80-For oil, electric or oil and electric. Made of sheet metal, either galvanized steel or brass. Has bottom opening and brass swivel fount with burner, wick and chimney for oil, or brass electric adapter for electricity, both supplied for "oil and electric".

	Galyanized	Polished	Cast	Cast	Height Overall	• Height Overall	Width		ounds
FIG.	Steel Each	Brass Each	Bronze Each	Aluminum	Lens Inches	Light	Overall Inches	Br.	Alum.
68 Electric only	\$42.00	\$53.00			7 %	141/2	91/2	13	
1006 Electric only			\$77.00	\$77.00	7 %	91/2	11%	21	14
80 Oil or Elec.	54.00	63.00			7%	18	934	17	
80 Oil and Elec.	57.50	66.50			7%	18	934	17	

With clear, or red lens for special purpose, use above prices.

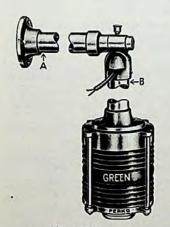


Fig. 1011

REGULATION MID-CHANNEL SPAN LIGHT WITH PIVOT MOUNTING

Cast Bronze or Cast Aluminum — Emery Finish
Watertight — Electric Only — Medium Screw Socket
360 Degree Green Fresnel Lens

This is Fig. 1006 with pivot mounting allowing light to be seen beneath the bridge yet can be swung to the upper level for rebulbing or cleaning. Entrance is through cast threaded cap in bottom of light body. Pipe is brass, 2 inch size. Standard length at "A" and "B" is 2 inches. Flanges and other fittings are cast bronze.

Cast	Cast	Overall	*Height	Width	Pounds		
Bronze Each	Aluminum Each	Lens Inches	Overall Inches	Overall Inches	Bronze	Aluminum	
\$145.00	\$145.00	7%	201/4	111/2	36	29	

NOTE-With special length of pipe at "A" or "B", price on application.

^{*}Height does not include handle.

LIFT SPAN LIGHTS FOR BASCULE BRIDGES

For Single and Double Lift Bridges
180 Degree Red and Green Fresnel Lenses
Cast Bronze or Cast Aluminum — Emery Finish
Watertight — Electric Only — Medium Screw Socket







Fig. 127

Fig. 1012

- FIG. 22—Swinging type with fixed extension. Pipe is brass, 2 inch size, 6 inches long. Bracket is cast bronze. Light contains two bakelite medium screw sockets, one for each lens. Entrance for rebulbing or cleaning is through two 4½ inch openings, one in back of upper section, the other in bottom of lower section, both closed by threaded cast caps. Complete with brass grease cup.
- FIG. 127-Fixed type, has eight integral mounting lugs, drilled for % inch diameter bolt. Two brass packing glands for cable and two threaded caps for entrance to each section.
- FIG. 1012-Swinging type with pipe extension, pipe "A" and "B" is brass, 2 inch size, 2 inches long at "A" and 6 inches long at "B". Other fittings are cast bronze. Light is the same as Fig. 22 above.

Cast	Cast	*Height	Height	Width	Size of	Pounds		
Each	Each	Inches	Inches	Inches	Inches	Bronze	Aluminum	
\$240.00	\$240.00	301/2	7 %	81/2	614 x 614	54	42	
160.00	160.00	181/2	7 3/8	**91/4		36	24	
250.00	250.00	32	7 %	81/2	6	56	44	
	\$240.00 160.00	Bronze	Bronze Each Aluminum Each Overall Inches \$240.00 \$240.00 30½ 160.00 160.00 18½	Bronze Each Overall Lens Inches \$240.00 \$240.00 30½ 7% 160.00 160.00 18½ 7%	Bronze Each Overall Lens Light	Bronze Each Color Each Each	Bronze Each Columnum Colu	

NOTE-Supplied in special color combinations if required, such as two red or two green lenses also clear or amber lenses at above prices.

Special length of pipe at "A" or "B", price on application.

*Height does not include hande.

**Width is to centers of mounting holes.

LIGHT COLORS AND HORIZONTAL ARCS OF VISIBILITY IN ACCORDANCE WITH "AIDS TO NAVIGATION" REGULATIONS



180 DEGREE RED-For piers, axis, abutments, channel sides or channel margins.



180 DEGREE CLEAR-For main channel markers on fixed bridges.



360 DEGREE RED, GREEN OR CLEAR—For sheer booms, isolated piers and obstructions not part of the bridge or bridge approach structure. May be shielded to various degrees as required.



60 DEGREE ALTERNATE RED AND GREEN—For draw span of draw bridges or swing span of through swing bridges. When required for swing span of deck or half-through swing bridges, one red lens is shielded.



360 DEGREE GREEN-For mid-channel or channel center, for span of fixed bridge over a navigable channel.



180 DEGREE GREEN AND RED—For span of single and double-lift bascule bridges. Green when lift span is fully open for navigation, red for all other positions of lift span.

SPARE PARTS

180 DEGREE LENSES-For figs. 22-29-31-59-125-127-1005	5-1010-1	012	oaah	Colored	\$16.00	anch
	Clear	911.30	each,	Colorea	\$10.00	Cacii
360 DEGREE LENSES-For figs. 68-80-126-1006-1011	Clear	\$11.50	each,	Colored	\$17.25	each
WATERTIGHT CAPS—Cast Bronze—For figs. 22-31-35-39- 1007-1010-1011-1012.	-125-126	-127-10	005-10	06-	.\$ 5.50	each
RUBBER GASKETS-For caps					.\$.30	each
RUBBER GASKETS-For 360 degree lenses					\$ 3.00	each
ELECTRIC SOCKETS-Medium screw-For all lights					.\$.5	5 each
SOCKET SUPPORTS-Brass-For all watertight electric lig	ghts				.\$ 1.00) each
ELECTRIC ADAPTERS-For figs. 29-50-59-63-68-80					\$ 3.30) each
OIL FOUNTS-Brass-For figs. 50-59-63-80					.\$ 3.30	each
OIL BURNERS-Brass-For above founts						
OIL WICKS-For above burners		1.35			.\$.0	8 each
CHIMNEYS-For above burners.					.\$ 1.0	0 each

EXTRACTS FROM LATEST REGULATIONS ON LIGHTING OF BRIDGES

"Aids To Navigation" C.G.-208, January 1, 1949

SUBPART 68.01—BASIC PROVISIONS

- § 68.01—1 **General requirement.** All persons owning, occupying, or operating bridges over the navigable waters of the United States shall maintain at their own expense such lights required for the safety of marine navigation as may be prescribed by the Commandant, and, on bridges constructed between March 23, 1906, and August 2, 1946, or any international bridge constructed after March 23, 1906, such additional signals as may be prescribed by the Commandant.
- § 68.01—5 **Penalty for failure to maintain.** Any such person required to maintain lights upon any bridge or abutments over or in the navigable waters of the United States who shall fail or refuse to maintain such light or lights, or to obey any of the lawful rules and regulations relating to the same, shall be deemed guilty of a misdemeanor and shall be subject to a fine not exceeding the sum of \$100 for each offense. Each day during which such violation shall continue shall be considered as a new offense. (Sec. 5, 35 Stat. 162; 33 U. S. C. 760.)
- § 68.01-10 Interference or obstruction prohibited. No person shall obstruct or interfere with any lights or signals maintained in accordance with the regulations prescribed in this part. (Sec. 8, 38 Stat. 928; 33 U. S. C. 762.)
- § 68.01—15 **Penalty for interference or obstruction.** Any person violating the provisions of § 68.01—10 of this chapter shall be deemed guiltyof a misdemeanor and be subject to a fine not exceeding \$500 for each offense. Each day during which such violation shall continue shall be considered a new offense. (Sec. 8, 38 Stat. 928, Sec. 6, 35 Stat. 162; 33 U. S. C. 761, 762.)

SUBPART 68.10—GENERAL CONDITIONS

- § 68.10-1 Signals pertaining to the operation of bridges. Lights and signals necessary for the execution of rules and regulations pertaining to the operation of bridges issued by the Secretary of the Army will be prescribed by the District Engineer.
 - § 68.10-5 Lighting during bridge construction.
- (a) While a bridge is under construction the District Engineer having jurisdiction over the work will prescribe the lights and other signals to be displayed for the protection of navigation.
- (b) When unusual conditions exist the District Engineer will confer with the District Commander to determine the lights and signals necessary for the protection of navigation.
- (c) When the construction of a bridge is completed the lights and other signals approved by the District Commander shall be displayed.
- § 68.10-10 **Lighting for the protection of aerial navigation.** The owner of a bridge which constitutes a hazard to aerial navigation should maintain, in addition to the lights prescribed in this part, such lights as may be prescribed by the the Administrator of Civil Aeronautics. (See 14 CFR, Ch. II.)
- § 68.10-15 Inspection. Lights and signals maintained as required by the provisions of this chapter are subject to inspection at any time by the Coast Guard or such agent as may be appointed by the Commandant.
 - § 68.10-20 Periods of operation.
- (a) Lights shall be displayed from sunset to sunrise and at other times when the visibility is less than one mile.
- (b) Operators shall not be required to exhibit the prescribed lights during seasons when vessels are unable to navigate in the vicinity of the bridge.
- § 68.10—25 **Visibility of lights.** All lights required by the regulations in this part shall be securely attached to the structure, and shall be of sufficient intensity to be visible against the background lighting for a distance of 2,000 yards on a dark night under the prevailing conditions of atmosphere. They shall be located as prescribed by the Commandant, with colors and arcs of visibility as specified.

SUBPART 68.15—MARKING REQUIREMENTS

\S 68.15-1 Lights on fixed bridges.

- (a) Each fixed bridge span over a navigable channel shall be lighted so that the center of the navigable channel under each span will be marked by a range of two green lights, and each margin of each navigable channel will be marked by a red light: Provided, That when a margin of a channel is limited by a pier, only those lights prescribed in paragraph (b) of this section shall be required to mark such channel margin. The green lights shall each show through a horizontal arc of 360°; they shall be securely mounted just below the outermost edge of the bridge span structure so as to be visible from an approaching vessel. Each red light shall show through a horizontal arc of 180°, and shall be securely mounted just below the outermost edge of the bridge span structure to show 90° on either side of a line parallel to the axis of the channel so as to be visible from an approaching vessel. (See Figs. 29, 31, 59, 68, 80, 125, 126, 1005, 1006, 1010, 1011.)
- (b) **Pier lights.** When the navigable channel extends from pier to pier or when piers are located within the navigable channel, each end of such piers shall be lighted with a red light. Each such light shall show through a horizontal arc of 180°, and shall be securely fastened at the end of the pier as low as practicable but not lower than 2 feet above navigable high water to show 90° on either side of line parallel to the axis of the channel so as to be visible from an approaching vessel. (See Figs. 29, 31, 59, 125, 1005, 1010.)
- (c) Main channel. When necessary, the District Commander may prescribe that fixed bridges having two or more spans over a navigable channel shall have the main channel span marked with a set of three white lights arranged in a vertical line directly above each green light on the main channel span. Each white light shall show through a horizontal arc of no less than 60° nor more than 180°, and shall be mounted so that ½ of the horizontal arc will show on either side of a line parallel to the axis of the channel. These three white lights shall be securely mounted on the bridge structure and spaced as nearly 15 feet apart as the structure of the bridge will permit, with a minimum spacing of 7 feet. The lowest white light in the line of three lights shall be placed not less than 10 nor more than 15 feet above each green light on the main channel span. (See Figs. 29, 31, 59, 125, 1005, 1010, with clear lens.)

\S 68.15-5 Lights on swing bridges.

- (a) Swing span lights on through bridges. Each swing span of every through swing bridge shall be lighted with three lanterns so that when viewed from an approaching vessel the swing span when closed will display three red lights on top of the span structure, one at each end of the span on the same level and one at the center of the span no less than 10 feet above the other two lights, and when open for navigation will display three green lights on top of the span structure in a line parallel to and directly above the long axis of the span, one at each end of the span on the same level, and one at the center of the span no less than 10 feet above the other two lights. Each lantern shall show through alternate red and green horizontal arcs of 60° each, the axis of adjacent arcs to be 90° from each other; each light shall be securely mounted with the axis of the green arcs parallel to the long axis of the swing span. (See Figs. 35, 39, 50, 63, 1007.)
- (b) Swing span lights on deck and half-through bridges. Each swing span of every deck, half-through, girder, or similar type swing bridge shall be lighted with four lanterns so that when viewed from an approaching vessel the swing span when closed will display one red light at each end, and when open to navigation will display two green lights from each end. Each lantern shall show through one red and two green horizontal arcs of 60° each, the axis of each green arc to be 90° from the axis of the red arc; each light shall be securely mounted at the floor level of the span as near to the side of the span as practicable with the axis of the red light normal to the long axis of the swing span and so that the red light will be visible from an approaching vessel when the span is closed. (See Figs. 35, 39, 50, 63, 1007, with one red lens shielded.)

- (c) Pier lights. Every swing bridge shall be lighted so that each end of the piers adjacent to the navigable channel (draw piers) or each end of their protection piers (draw pier protection piers) and each end of the piers protecting the pivot pier (pivot protection pier) will be marked by a red light. Each of these lights shall show through a horizontal arc of 180° and shall be mounted as low as practicable below the floor level of the swing span to show 90° on either side of a line parallel to the axis of the channel so as to be visible from an approaching vessel. (See Figs. 29, 31, 59, 125, 1005, 1010.)
- (d) Axis lights. Every swing bridge shall be lighted so that the intersection of the bridge axis with each side of the pivot pier and the channel side of each draw pier which has a protection pier will be marked by a red light: Provided, That if the draw and draw protection piers are straight along their channel faces these lights shall not be required. Each such light shall show through a horizontal arc of 180°, and shall be mounted on the navigable channel face of the pier as low as practicable below the floor level of the swing span to show 90° either side of a line normal to the axis of the navigable channel so as to be visible from an approaching vessel. (See Figs. 29, 31, 59, 125, 1005, 1010.)
- (e) Omission of lights. Where the permanent navigable channel passes on only one side of the pivot pier of any swing span, the District Commander may authorize the omission of lighting of the unused channel.

\S 68.15-10 Lights on single-opening drawbridges.

- (a) Bridges in this class. Bridges of the folding, pontoon and similar type single opening drawbridges are included in this class.
- (b) **Draw span lights.** Each draw span of every single opening drawbridge shall be lighted with two lanterns so that when viewed from an approaching vessel the draw span when closed will display two red lights, one at each end of the span and when open to navigation will display two green lights, one at each end of the span. Each lantern shall show alternate red and green horizontal arcs of 60° each, the axis of adjacent arcs to be located 90° from each other; each lantern shall be securely mounted 15 feet above the roadway with the axis of the green arcs parallel to the long axis of the swing span. (See Figs. 35, 39, 50, 63, 1007.)
- (c) Pier or abutment lights. Every swing bridge shall be lighted so that the end of each pier, abutment or fixed portion of the bridge adjacent to the navigable channel through the draw or each end of the protection piers for such piers, abutments, or fixed portions of the bridge will be marked by a red light. Each red light shall show through an arc of 180°, and shall be securely mounted on the pier, abutment or fixed portion of the bridge as low as practicable to show 90° on either side of a line normal to the axis of the channel so as to be visible from an approaching vessel. (See Figs. 29, 31, 59, 125, 1005, 1010.)

§ 68.15—15 Lights on bascule bridges.

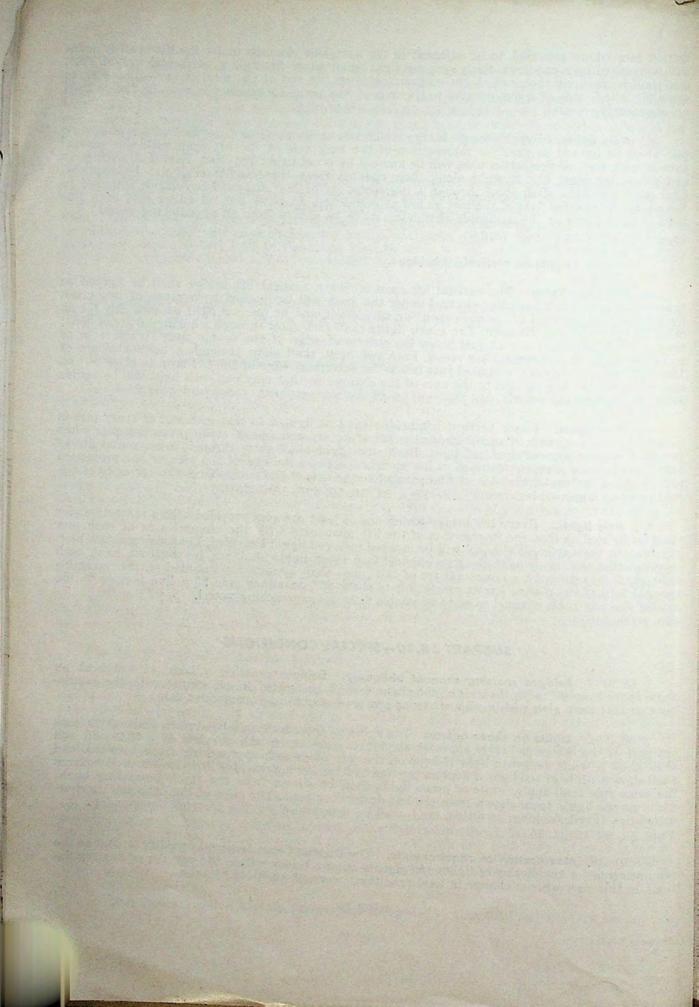
- (a) Lift span lights. Each lift span of every bascule bridge shall be lighted so that the free end of the span will be marked on each side by a green light which shows only when the span is fully open for the passage of a vessel and by a red light which shows for all other positions of the lift span. Each red and each green light shall show through a horizontal arc of not less than 60° nor more than 180°. The lighting apparatus shall be securely mounted to the side of the span so that the lights will show equally on either side of a line parallel to the axis of the channel, and so that they will be visible from an approaching vessel. (See Figs. 22, 127, 1012.)
- (b) Multiple parallel lift span lights. The outermost side of each outer span of every bascule bridge with parallel multiple lifts shall be lighted as prescribed in paragraph (a) of this section; the lights shall be controlled so that the green lights will be displayed only when all spans are open for navigation. The inner sides of each outer lift span and both sides of each inner lift span of such bascule bridge shall be lighted by red lights for all positions of the lift span. These lights shall have the same arcs of illumination and shall be mounted as described in paragraph (a) of this section. (See Figs. 22, 127, 1012.)
 - (c) Pier lights. Every bascule bridge shall be lighted so that each end of every pier, or pro-

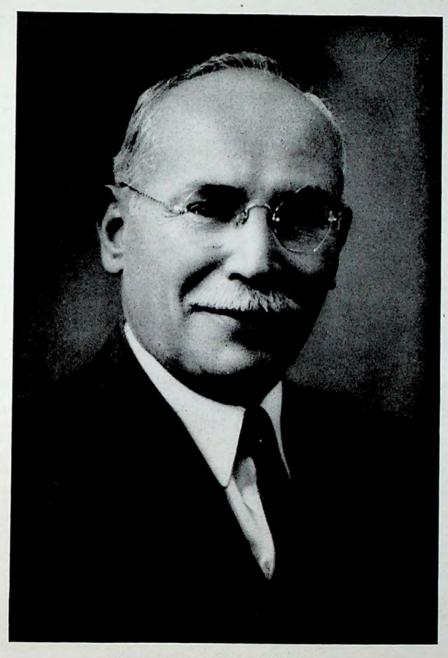
tection pier where provided, in or adjacent to the navigable channels under the lift span or spans will be marked by a red light. Each such red light shall show through a horizontal arc of 180°, and shall be securely mounted as low as practicable on the end of the pier, or protection pier, to show 90° either side of a line parallel to the axis of the navigable channel so as to be visible from an approaching vessel. (See Figs. 29, 31, 59, 125, 1005, 1010.)

- (d) **Axis lights.** Every bascule bridge which has at least one pier provided with a protection pier shall be lighted so that the intersection of the long axis of the lift span with the channel side of each pier, or protection pier, will be marked by a red light: **Provided**, That if all such piers and protection piers are straight along their channel faces these lights shall not be required. Each such red light shall show through a horizontal arc of 180° and shall be securely mounted on the navigable channel face of the pier as low as practicable to show 90° on either side of a line normal to the axis of the navigable channel so as to be visible from an approaching vessel. (See Figs. 29, 31, 59, 125, 1005, 1010.)
 - § 68.15-20 Lights on vertical lift bridges.
- (a) Lift span lights. The vertical lift span of every vertical lift bridge shall be lighted so that the center of the navigable channel under the span will be marked by a range of two green lights when the vertical lift span is open for navigation, and by one red light on each side for all other positions of the lift span. The green lights shall each show through a horizontal arc of 360°; they shall be securely mounted just below the outermost edge of the bridge span structure so as to be visible from an approaching vessel. Each red light shall show through a horizontal arc of 180°, and shall be securely mounted just below the outermost edge of the lift span to show 90° on either side of the line parallel to the axis of the channel so that only one such light will be visible from an approaching vessel. (See Figs. 29, 31, 59, 68, 80, 125, 1005, 1006, 1010, 1011.)
- (b) **Pier lights.** Every vertical lift bridge shall be lighted so that each end of every pier in or adjacent to navigable channels under the lift span, or each end of every protection pier when-provided, will be marked by a red light. Each such light shall show through a horizontal arc of 180°, and shall be securely mounted as low as practicable on the end of the pier, or the protection pier, to show 90° on either side of line parallel to the axis of the navigable channel so as to be visible from an approaching vessel. (See Figs. 29, 31, 59, 125, 1005, 1010.)
- (c) Axis lights. Every lift bridge which has at least one pier provided with a protection pier shall be lighted so that the intersection of the lift span axis with the channel side of each pier adjacent to the navigable channel will be marked by a red light: Provided, That if every such pier, or protection pier, is straight along its channel face these lights shall not be required. Each such light shall show through a horizontal arc of 180°, and shall be securely mounted on the navigable channel face of the pier as low as practicable to show 90° on either side of a line normal to the axis of the navigable channel so as to be visible from an approaching vessel. (See Figs. 29, 31, 59, 125, 1005, 1010.)

SUBPART 68.20—SPECIAL CONDITIONS

- § 68.20-1 Bridges crossing channel obliquely. Bridges crossing a body of water at an angle other than 90° with the axis of the channel shall be lighted in accordance with the regulations in this part with such modifications as are necessary in each particular case.
- § 68.20-5 **Lights on sheer booms.** The lights on sheer booms, isolated piers, and obstructions not part of the bridge or bridge approach structure come under the purview of § 66.01-35 and shall show a white or green light if kept on the left of vessels approaching from seaward, and shall show a white or red light if kept on the right of vessels approaching from seaward. For rivers the same rule shall apply, white or green lights shall be shown from the right descending bank; white or red lights to be shown from the left descending bank. The color of the light and its characteristics (fixed, flashing, occulting, etc.) shall be determined by the District Commander. (See Figs. 68, 80, 126, 1006, 1011, with color of lens required.)
- 68.20-10 Modification of requirements. The District Commander may modify or change the requirements for the display of lights and signals on any bridge within the purview of the regulations in this part when a change in local conditions warrant such modification.





Frederick Perkins - President

Mr. Perkins has been manufacturing marine lamps since 1908. He was President of the National Marine Lamp Co. from 1912 to 1916 and founded the Perkins Marine Lamp Corp. in 1917. Under his able guidance and keen judgment this company has grown to its present highly respected position in the marine field.



REGULATIONS OF MOTOR BOATS

DEPT. OF COMMERCE BUREAU OF MARINE INSPECTION AND NAVIGATION DEPT. CIRCULAR NO. 286 APRIL 27, 1940

TO: Supervising, Traveling and Local Inspectors, Navigation Inspectors, Collectors and Deputy Collectors of customs, U. S. Coast Guard and others concerned.

SUBJECT: New Motorboat Law and amendments to Inland, Great Lakes, and Western Rivers, rules for preventing collisions.

The following act (Public No. 484, 76th Congress) was approved on April 25, 1940:

"Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the word "motorboat" where used in this Act shall include every vessel propelled by machinery and not more than sixty-five feet in length except tugboats and towboats propelled by steam. The length shall be measured from end to end over the deck, excluding sheer: Provided, That the engine, boiler, or other operating machinery shall be subject to inspection by the local inspectors of steam vessels, and to their approval of the design thereof, on all said motorboats, which are more than forty feet in length, and which are propelled by machinery driven by steam.

- Sec. 2. Motorboats subject to the provisions of this Act shall be divided into four classes as follows:
- Class A. Less than sixteen feet in length.
- Class 1. Sixteen feet or over and less than twenty-six feet in length.
- Class 2. Twenty-six feet or over and less than forty feet in length.
- Class 3. Forty feet or over and not more than sixty-five feet in length.
- Sec. 3. Every motorboat in all weathers from sunset to sunrise shall carry and exhibit the following lights when under way, and during such time no other lights which may be mistaken for those prescribed shall be exhibited:
 - (a) Every motorboat of classes A and 1 shall carry the following lights:

First. A bright 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.

(b) Every motorboat of classes 2 and 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 constructed as to show an unbroken light over an arc of the horizon of twenty points of the compass, so fixed as to throw the light ten points on each side of the vessel; namely, from right ahead to two points abaft the beam on either side.

Second. A bright white light aft to show all around the horizon and higher than the white light forward.

Third. On the starboard side a green light so constructed as to show an unbroken light over an arc of the horizon of ten points of the compass, so fixed as to throw the light from right ahead to two points abaft the beam on the starboard side. On the port side a red light so constructed as to show an unbroken light over an arc of the horizon of ten points of the compass, so fixed as to throw the light from right ahead to two points abaft the beam on the port side. The said side lights shall be fitted with inboard screens of sufficient height so set as to prevent these lights from being seen across the bow.

- (c) Motorboats of classes 2 and 3, when propelled by sail and machinery, or by sail alone, shall carry the colored side lights, suitably screened, but not the white lights prescribed by this section; Provided, however, That motorboats of all classes, when so propelled, shall carry, ready at hand, a lantern or flashlight showing a white light which shall be exhibited in sufficient time to avert collision; Provided further, That motorboats of classes A and 1, when so propelled, shall not be required to carry the combined lantern prescribed by subsection (a) of this section.
- (d) Every white light prescribed by this section shall be of such character as to be visible at a distance of at least two miles. Every colored light prescribed by this section shall be of such character as to be visible at a distance of at least one mile. The word "visible" in this Act, when applied to lights, shall mean visible on a dark night with clear atmosphere.
- Sec. 4. Every motorboat of class 1, 2, or 3, shall be provided with an efficient whistle, horn or other sound-producing mechanical appliance. Class 1, mouth, hand or power operated audible at least ½ mile. Class 2, hand or power operated audible at least 1 mile.
 - Sec. 5. Every motorboat of class 2 or 3 shall be provided with an efficient bell.
- Sec. 11. Every such motorboat and every such vessel, except open boats, using as fuel any liquid of a volatile nature, shall be provided with such means as may be prescribed by regulations of the board of supervising inspectors with the approval of the Secretary of Commerce for properly and efficiently ventilating the bilges of the engine and fuel tank compartments so as to remove any explosive or inflammable gases; Provided, That this section shall apply only to such motorboats or vessels, the construction or decking over of which is commenced subsequent to the passage of this Act.
 - Sec. 12. Motorboats shall not be required to carry on board copies of the pilot rules.
- Sec. 13. No person shall operate any motorboat or any vessel in a reckless or negligent manner so as to endanger the life, limb, or property of any person.



(Closed)

"Perko" De-Lite Combination Lights

TURRET TOP-FRONT DOOR

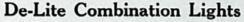
FOR CLASS ONE BOATS—16 FEET AND OVER AND LESS THAN 26 FEET IN LENGTH OIL AND ELECTRIC, DOUBLE CONTACT

Green Lens for Starboard, Red Lens for Port

Height, less ring, 9% inches
Measurements of base, 5 inches x 5½ inches
Size of lens, 3% inches x 3% inches
Weight, 3% pounds



Galvanized Each \$7.50 Polished Brass Each \$8.50 Chromium Plated Each \$10.50



FLAT TOP-FRONT DOOR

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Height, less ring, 6½ inches

Measurements of base, 5 inches x 5½ inches

Size of lens, 3% inches x 3% inches

Weight, 3 pounds





Polished Brass Each \$8.00 Chromium Plated Each \$10.00



(Opened)

(Opened)

Old Style Combination Lights

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



Fig. 1

(Closed)

Height less Ring, 9 inches.

Meas. of Base, 4%x4½ inches.

Size of Lenses, 3½x3½ inches.

Weight, 2% pounds.

Galvanized Brass Each Each
Oil or Elec. Only \$5.75 \$6.75
Oil and Electric 6.25 7.25
Chromium plated finish, add \$2.00 each to Pol. Brass price.

Electric Socket is Double Contact.

Old Style Combination Lights

FLAT TOP-BOTTOM OPENING

FOR CLASS 1 BOATS

ELECTRIC ONLY-DOUBLE CONTACT SOCKET



WITH RED AND GREEN LENSES

Height less Ring, 64 inches. Meas. of Base, 4%x4½ inches. Size of Lenses, 35x35 inches. Weight, 2 pounds.

Galvanized Brass Plated Each \$5.25 \$6.25 \$8.25

Fig. 3

SPARE PARTS	Each
Lenses, fig. 259, Class 1 Combination	.\$1.15
Oil Founts for 582 Brass for fig. 01	1.00
Oil Founts for 733 Brass for fig. 1	1.00
Oil and Electric Founts, ng. 733, Brass, 10r ng. 1	2.20
Oil Rurners fig. 246. No. 0. Brass	20
Oil Wicks fig 302 No 0	,03
Electric Sockets Double Contact fig. 276	., ,50
Electric Sockets, Medium Screw fig. 222	50



"Perko" De-Lite Anchor Lights

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









Pounde

Chromium Plated Each

\$8.75

Pounds 21/2 Chromium Plated \$8.25

Fig.	0-2	Fig	. 735
Height Less Ring Inches	Diam. Base Inches	Size of Lens Inches	Weight Each Pounds
85/8	41/2	3 5x3 3	2
	OIL OR E	LECTRIC ONLY	
Galv. Each \$4.50		olished Brass Each \$5.50	Chromium Plated Each \$7.50
COMB. OIL	AND ELEC	TRIC, WITH FI	G. 735 FOUNT
Galv. Each \$5.00		Polished Brass Each \$6.00	Chromium Plated Each \$8.00
With Red,	Green, Blue o	r Amber Lens ac	ld \$1.25 each.

Fig. 736 Fig. 0-6 Diam. Base Inches 5 1/8 Height Less Ring Inches 113/4 Size of 41/4×4 OIL OR ELECTRIC ONLY Polished Brass Each Galv. \$6.75 \$5.75

COMB. OIL AND ELECTRIC, WITH FIG. 736 FOUNT l'olished Chromium Plated Each Galv. Each Brass Each \$9.25 \$7.25 \$6.25

With Red, Green, Blue, or Amber Lens add \$1.50 each. With Hinged Bottom add \$.50 each.

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









		A CONTRACTOR OF THE PROPERTY O	
Height Less Ring Inches	Diam. Base Inches 4½	Size of Lens Inches 3 5x3 3	Weight Each Pounds
Galv. Each \$4.00		Polished Brass Each \$5.00	Chromium Plated Each \$7.00

With Red, Green, Blue, or Amber Lens add \$1.25 each.

Height Less Ring Inches	Diam. Base Inches	Size of Lens Inches
9	55/8	41/4×4
Galv. Each		Polished Brass Each
¢5 25		\$6.25

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

22.00		SPARE PARTS	Each
Langes fig. 261.	Clear, for figs, 06	and 11 and 12	1.50
Oil Founts, fig.	287, Brass, for fig	. 02	1.00
Oil Burners, fig.	246. No. 0, Brass,	for fig. 02	
Oil Burners, fig.	246, No. 0, Brass, 246, No. 1, Brass,	. 06 for fig. 02 for fig. 06	

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



Height, less ring, 101/2 inches Measurements of base, 54 inches x 54 inches Size of lens, 414 inches x 414 inches Weight, per pair, 61/4 pounds

Fig. 0-4

	Polished	Chromium
alvanized	Brass	Plated
Per Pair	Per Pair	Per Pair
\$13.00	\$15.00	\$19.50



(Opened)



"Perko" De-Lite Bow Lights TURRET TOP

CLASS 2-OIL AND ELECTRIC, DOUBLE CONTACT

Height, less ring, 101/2 inches Size of lens, 41/4 inches x 63/8 inches Measurements of base, 5 inches x 51/2 inches Weight, each, 3 pounds

Fig. 0-5



With clear lens With colored lens

G

Polished Chromium Brass Each Plated Each Galvanized Each \$6.50 \$7.50 \$9.75 11.00 7.75



(Opened)



(Closed)

"Perko" De-Lite Side Lights FLAT TOP-CLASS 2

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

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

Fig. 0-40

Galvanized
Per Pair
\$12.00

Polished Brass Per Pair \$14.00

Chromium Plated Per Pair \$18.50



(Opened)

"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, 41/4 inches x 61/8 inches Weight, each, 2% pounds

Fig. 0-50



With clear lens With colored lens Galvanized \$6.00 7.25

Polished Brass Each Chromium Plated Each \$7.00 \$9.25 8.25 10.50

(Opened)

SPARE PARTS	Each
Lenses, fig. 259 Class 2, for figs. 04 and 0-40	. \$1.60
Lenses, fig. 260 Class 2, for figs. 0-5 and 0-50.	1.60
Oil Founts, fig. 582, Brass, for figs. 0-4 and 0-5	1.00
Oil Rurners, fig. 246 No. 1, Brass, for figs. 0-4 and 0-5	22
Oil Wicks, fig. 302 No. 1	04
Electric Sockets, Double Contact fig. 276	50
Electric Sockets, Medium Screw fig. 222	50





"Perko" De-Lite Side Lights

TURRET TOP

FOR CLASS 3 BOATS-40 FEET OR OVER AND NOT MORE THAN 65 FEET IN LENGTH OIL AND ELECTRIC, DOUBLE CONTACT

Size of lens, 5% inches x 5% inches Height, less rings, 12% inches Measurements of base, 5% inches x 5% inches Weight, per pair, 8 pounds

Fig. 0-8

Galvanized	Polished	Chromium Plated
Iron Per Pair	Brass Per Pair	Per Pair
\$15.00	\$17.00	\$22.00



(Opened)



"Perko" De-Lite Bow Lights

TURRET TOP

CLASS 3-OIL AND ELECTRIC, DOUBLE CONTACT

Size of lens, 5% inches x 718 inches Height, less ring, 12¼ inches
Measurements of base, 5½ inches x 6½ inches
Weight, each, 4 pounds

Fig. 0-9

Galvanized 1ron Each	Polished Brass Each	Chromium Plated Each
\$7.50	\$ 8.50	\$11.00
9.00	10.00	12.50
	1ron Each \$7.50	Iron Brass Each \$7.50 \$ 8.50



(Opened)



(Closed)

"Perko" De-Lite Side Lights

FLAT TOP-CLASS 3

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

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

Fig. 0-80

Galvanized	Polished	Chromium
Iron	Brass	Plated
Per Pair	Per Pair	Per Pair
\$14.00	\$16.00	\$21.00



(Opened)



FLAT TOP-CLASS 3 ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Size of lens, 5% inches x 71% inches
Height, less ring, 8½ inches
Measurements of base, 5½ inches x 6½ inches Weight, each, 4 pounds

Fig. 0-90

Vith clear lens	Galvanized Iron Each \$7.00	Polished Brass Each \$8.00	Chromium Plated Each
Vith colored lens	8.50	9.50	\$10.50 12.00



SPARE PARTS	Each
Lenses, fig. 259 Class 3, for figs. 0-8 and 0-80	\$2.00
Lenses, fig. 260 Class 3, for figs. 0-9 and 0-90	2.00
Oil Founts, fig. 582, Brass, for figs. 0-8 and 0-9	1 00
Oil Burners, fig. 246 No. 1, Brass, for figs. 0-8 and 0-9	22
Oil Wicks, fig. 302 No. 1	0.4
Electric Sockets, Double Contact fig. 276	50
Electric Sockets, Medium Screw fig. 222	.50

Old Style Class 2 Side Lights

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



Size of Lenses, 4¼x4¾ inches Extreme Height, 10½ inches Size of Base, 4¾x5½ inches Weight, per pair, 5½ lbs.

	Galvanized Per Pair	Polished Brass Per Pair
Oil or Elec. Only	\$9.00	\$11.00
Oil and Electric	10.00	12.00

Chromium plated finish, add \$4.00 per pair to Polished Brass price.

Fig. 17

Old Style Class 3 Side Lights

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



Size of Lenses, 5 % x5 % inches Extreme Height, 12½ inches Size of Base, 5x6¼ inches Weight, per pair, 7½ lbs.

	Galvanized Per Pair	Polished Brass Per Pair
Oil or Elec. Only	\$11.50	\$13.50
Oil and Electric	12.50	14.50

Chronium plated finish, add \$4.00 per pair to Polished Brass price.

Fig. 19

Old Style Flat Top Side Lights

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



CLASS 2

Size of Lenses, 4¼x4¾ in. Extreme Height, 7¼ in. Size of Base, 4¾x5½ in. Weight, per pair, 5 lbs.

CLASS 3

Size of Lenses, 5% x5% in. Extreme Height, 8½ in. Size of Base, 5x6¼ in. Weight, per pair, 7 lbs.

Fig. 4

 Galvanized Per Pair
 Polished Brass Plated Per Pair
 Chromium Plated Per Pair

 \$ 8.00
 \$10.00
 \$14.00

 \$ 11.00
 \$13.00
 \$17.00

Old Style Class 2 Bow Lights

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



Size of Lens, 44x6% inches Extreme Height, 10½ inches Size of Base 4½x5 inches Weight, each, 3 lbs.

WITH CLEAR LENS

Oil or Elec. Only \$4.50 \$5.50 G.00

Chromium plated finish, add \$2.00 each to Polished Brass price.

Fig. 18

With Red, Green, or Blue Lens Add \$1.25 Each.

Old Style Class 3 Bow Lights

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



Size of Lens, 5%x71% inches Extreme Height, 12½ inches Size of Base, 5½x6¼ inches Weight, each, 3½ lbs.

WITH CLEAR LENS

Oil or Elec. Only Oil and Electric 6.25 Pollshed Brass Each \$6.75

Chromium plated finish, add \$2.00 each to Polished Brass price.

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, 4½x6% inches Extreme Height, 7½ inches Size of Base, 4½x5 inches Weight, each, 2½ lbs.

CLASS 3

Size of Lens, 5 % x7 13 inches Extreme Height, 8½ inches Size of Base, 5½ x6¼ inches Weight, each, 3¼ lbs.

Fig. 5

Class	Galvanized Each	Brass Each	Plated Each
2	\$4.00	\$5.00	\$7.00
3	5.50	6.50	8.50
Class	2 with Red, Green,	or Blue lens add	\$1.25 each.
Class	3 with Red, Green,	or Blue lens add	\$1.50 each.

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$1.00 EACH.
ALL LIGHTS ON THIS PAGE WITH HINGED BOTTOMS ADD \$.50 EACH.

SPARE PARTS

Oil and Electric Founts fig. 736 Oil Founts, fig. 286 Lenses, figs. 259 and 260 Electric Founts, figs. 291 or 292 Electric D.C. Adapters fig. 355 Oil Burners and Wicks figs. 246 and 302 No. 1

Sail Boat Side Lights

SMALL SIZE



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

Electric socket is bayonet double contact.

Size of	Extreme	Diam. qf	Weight
Lens	Height	Base	Per Pair
Inches	Inches	Inches	Pounds
3 tox 3 5/8	9	41/4	4

Fig. 69	Galvanized Per Pair	Pol. Bras Per Pair
Oil or Electric Only	\$7.50	\$ 9.50
Oil and Electric	8.50	10.50
Electric Only—Flat Top	6.50	8.50

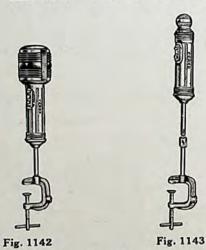
Spare Lenses, see Fig. 259, Class 1.

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

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

"Sport Kits" Lights

FLASHLIGHT BATTERY TYPE ALL BRASS-NICKEL PLATED



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

Two regular flashlight batteries are used in each light. Clamps are cast bronze, and can be quickly detached or attached to vertical or horizontal mountings up to 136 inches thick.

The combination bow light head is full size and same

as our Fig. 485.

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

Height Overall Inches Fig. 1142 133/4	Height Overall Inches Fig. 1143	Diam. Stem Inches	Size Lens Inches Fig. 1142 2 % 3	Size Globe Inches Fig. 1143	Weight Each Pounds	
Fig. 1142 Each	***	Fig.	1143 ich		Extra Bulbs Each	

Price includes one bulb in each light, no batteries.

Royal Combination Lights

GALVANIZED IRON AND BRASS **ELECTRIC ONLY**

FOR CLASSES A AND 1 BOATS



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

Inches 3%	Inches 41/4	Inches 3 % x 3 %	Lbs. 11/4
Galvani	and	Polished Brass	Chromium Plated
Each		Each	Each
\$4.30	0	\$5.00	\$6.75

Fig. 89

Spare Lenses, see Fig. 259, Cl. 1

Royal Side Lights

ELECTRIC ONLY

FOR CLASS 2 AND 3 BOATS Same construction as above.



Fig. 91

	Height Inches		e Lens	per Pair Lbs.
Class I	41/4	3 5	x 35/8	13/4
Class 2	5		x 43/4	2
Class 3	6	5 3	x 5 16	3
			Pol.	Chrom
		Galv.	Brass	Plated
		Per	Per	Per
		Pair	Pair	Pair
Class 1		\$6.00	\$7.50	\$11.00
Class 2		6.50	8.00	11.50
Class 3		7.50	9.00	12.50
Spare	Lense	es, see	Fig. 25	9.

Royal Bow Lights

ELECTRIC ONLY FOR CLASS 2 AND 3 BOATS

Height

Same construction as above. Weight



Class 1	41/4	3 7	x 53/8	1
Class 2	5		x 63/8	11/2
Class 3	6	5 3	x 7 13	2
		alv.	Pol. Brass Each	Chrom Plated Each
Class 1		3.00	\$3.75	\$ 5.50
Class 2		3.25	4.00	5.75
Class 3		3.75	4.50	6.25
Spare	Lense	s, see	Fig. 26	0.

Size Lens

Inches

Fig. 92

Royal Anchor Lights

ELECTRIC ONLY FOR CLASS 1, 2 AND 3 BOATS



Junior Senior	Height Inches 4½ 5½	Size Lens Inches 3 5 x 3 3 16 4 1/4 x 4	Each Lbs. 11/4 2
Junior Senior	Galv. Each \$3.00 4.25	Brass F	hrom. Plated Each \$5.75 7.00

Spare Lenses, see Fig. 261. Fig. 90

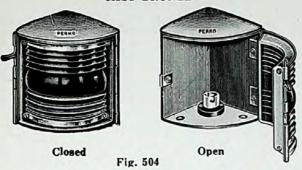
Above lights cannot be equipped with medium screw sockets

Spare Brackets, see Fig. 25. Spare Electric Socket Holders complete with socket, \$.75 each.



De-Lite Side Lights

WITH FRONT DOORS FOR CLASSES 2 AND 3 BOATS CAST BRONZE



A quick change of bulb or lens is simple. Lenses are fastened in doors by brass straps and machine screws, doors have positive latch which cannot work loose due

to vibration or wind. Furnished in pairs, with red and green fresnel lenses and double contact or medium screw sockets.

Class 2 3	Height Inches 5½ 6	Angle Inches 33/4 x 33/4 4 x 4	Lens Inches 4½x4¾ 5 3 x5 8	Weight Per Pair Lhs. 6½ 8
Class	Polished Bronze	Chromium Plated	Spare Lenses Each	Spare Sockets Each
2	\$16.00	Per Pair \$19.50	\$1.60	\$.60
3	19.50	23.00	2.00	.60

With medium screw sockets, add \$2.00 per pair. 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



Fig. 505

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

Class 2 3	Height Inches 5½ 6½	Width Inches 5½ 6	Lens Inches 4 1/4 x 6 3/8 5 $\frac{3}{16}$ x 7 $\frac{13}{16}$	Weight Lbs. 31/4 41/4
Class 2	Polished Bronze Each \$8.00	Chromium Plated Each \$ 9.75	Spare Lenses Each \$1.60	Spare Sockets Each \$.60
3	9.75	11.50	2.00	60

With medium screw sockets, add \$1.00 Each. Double contact sockets furnished unless otherwise

specified With Red or Green Lens, Class 2, add \$1.25 Each. With Red or Green Lens, Class 3, add \$1.50 Each.

Watertight Side Lights

CAST BRONZE-DOUBLE CONTACT FOR CLASS 2 BOATS



Fig. 1250

Complete with threaded rebulbing plug and thru deck stuffing tube for cable entrance. A pair consists of 2 lights, green for starboard side and red for port side. 1121/2 degrees.

Polished Bronze Per Pair	Lens Inches	Height Light Inches	Length Tube Inches	Diam. W Cable Pe Inches I	
\$20.00	41/4 x 43/4	51/4	41/4	1/2	7

Chromium Plated Finish, add \$4.00 per pair. Equipped with Candelabra Socket if required. \$1.60 Each Spare red or green lenses, fig. 259, Spare Sockets, fig. 747, .25 Each

Watertight Bow Lights

CAST BRONZE—DOUBLE CONTACT FOR CLASS 2 BOATS



Fig. 1251

Complete with Rebulbing Plug in back (illustrated with Fig. 1250) and thru deck Stuffing Tube. 180 degree clear Fresnel Lens.

Polished	al account?	Height	Length	Diam.	Weight
Bronze	Lens	Light	Tube	Cable	Each
Each	Inches	Inches	Inches	Inches	Pounds
\$10.00	41/4 x 63/8	51/4	41/4	1/2	4

Chromium Plated Finish, add \$2.00 Each. Equipped with Candelabra Socket if required. Spare clear lenses, fig. 260, Spare Sockets, fig. 747, \$1.60 Each .25 Each

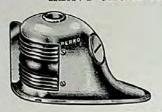


COMBINATION LIGHTS—ELECTRIC

FOR OUTBOARD MOTOR BOATS AND SMALL RUNABOUTS

Lightweight Streamline Pattern

WITH REBULBING FEATURE HEAVY GAUGE PRESSED BRASS





Rear view showing method of chang-ing bulb

Fig. 1140

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

			Flagpole	
Height Inches	Base Inches	Lens Inches	Socket	Weight
31/4	33/4×61/4	2 16x3	3/4	1
eta Maria	C1			Rebulbing
Polished	Chromium	Spare	3	Feature
Brass	Plated	Lense	28	Only
Each	Each	Eacl	h	Each
\$4.50	\$5.50	\$.7	5	\$1.25
Without	Rebuilding F	eature and	Flagpole	Socket
	Fig	. 1140-A		
	Polished	Chromi		
	Brass	Plate	d	

Wrought Brass Type FOR PERMANENT MOUNTING

\$4.75

\$3.75



Complete with red and green fresnel lenses and

gouble con	tact electric	socket.		
Height	Diam.	Diam.	Size	
Overall	Body	Base	Lens	Weight
Inches	Inches	Inches	Inches	Lbs.
41/2	21/2	21/2	2 % x 3	3/4
Polished	Chrom	lum	Spare	Spare
Brass	Plate	d	Lenses	Sockets
Each	Eacl	1	Each	Each
\$3.25	\$4.25	5	\$.75	\$.55

FOR TEMPORARY MOUNTING WITH REMOVABLE BRACKET



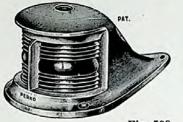
Fig. 486

Quickly removed from deck without necessity of removing screws from deck. Complete with red and green

rregner ler	ises and dou	DIE CUITA	CC CICCUITC BO	CACG
Height	Diam.		Lens	Weight
Inches	Inches		Inches	Lbs.
4	21/2		2 x 3	1
Polished	Chromium	Spare	Spare	Spare
Brass	Plated	Lenses	Sockets	Brackets
Each	Each	Each	Each	Each
\$3.75	\$4.75	\$.75	\$.75	\$.50

Streamline Pattern

WITH REBULBING FEATURE CAST BRONZE





ing bulb

Fig. 598

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

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

40401						
No.	Height Inches	35/8	Base nches x 5 3/4	Lens Inches 2 ⁹ / ₁₆ x 3	Flagpole Socket Inch	Weight Lbs.
2	3 3/4	41/8	x 8	2 16 x 3	7/4	4/2
3	43/8	51/2	x 8 3/4	3 to x 3 1/8	1	43/4
No.	Polisi Bron Eac	ze	Chromium Plated Each	Spar- Lense Each	28	Spare Sockets Each
1	\$ 8.0	00	\$ 9.00	\$.7	5	\$.25
2	9.5		10.75	.7	5	.25
3	12.0		14.50	1.1		.25

Lightweight Type

FOR LARGE CLASS 1 MOTORBOATS PRESSED BRASS



Fig. 1141

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

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

in top.				
Height	Base	Lens	Flagpole	Weight
Inches	Inches	Inches	Socket	Pounds
51/8	55/8x91/2	41/4x31/4	Inches	2
Polished	Chromium	Spare		Spare
Brass	Plated	Lenses		Sockets
Each	Each	Each		Each

\$1.50

\$9.50

\$8.00

\$.25

Streamline Side Lights

CAST BRONZE

CLASSES 2 AND 3-ELECTRIC



Fig. 563

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

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

Class 2	Height Inches	Length Inches	Size Lens Inches 41/4 x 43/4	Weight Per Pair Lbs. 51/2
3	6	91/4	5 10 x 5 16	7
Class	Polished Bronze Per Pair	Chromium Plated Per Pair	Spare Lenses Each	Spare Sockets Each
2	\$14.50	\$17.50	\$1.60	\$.25
3	22.00	25.00	2.00	.25

Streamline Bow Lights

CAST BRONZE

CLASSES 2 AND 3-ELECTRIC

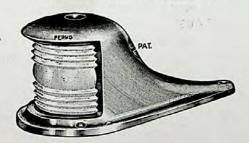


Fig. 561

Furnished with clear fresnel lens and double contact electric socket.

Class	Height Inches	Base Inches	Lens Inches	Weight Pounds	Flagpole Socket Inches
2 -	5	55/8 x 97/8	41/4 x 63/8	6	1
3 .1	63/8	63/8 x 13	$5\frac{3}{16} \times 7\frac{13}{16}$	83/4	1
Class	Polished Bronze Each	Chromiu Plate Each	d Len	ses	Spare Sockets Each
2	\$13.25	\$16.0	0 \$1.	.60	\$.25
3	19.00	22.0	0 2.	.00	.25

Lightweight Streamline Side Lights

PRESSED BRASS

CLASS 2-ELECTRIC



Fig. 1138

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

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

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

Extreme	Extreme	Size	Weight
Height	Length	Lens	Per Pair
Inches	Inches	Inches	Pounds
6 3	95/8	41/4 x 43/4	31/4
Polished	Chromium	Spare	Spare
Brass	Plated	Lenses	Sockets
Per Pair	Per Pair	Each	Each
\$11.50	\$14.50	\$1.60	\$.25

Lightweight Streamline Bow Lights

PRESSED BRASS CLASS 2-ELECTRIC

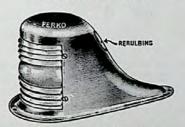


Fig. 1139

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

Furnished with clear fresnel lens and double contact electric socket.

A flag pole socket in top if required.

Height	Base	Lens	Flagpole	Weight
Inches	Inches	Inches	Socket	Pounds
51/8	55/8×91/2	41/4x63/8	Inches	2
Polished	Chromium	Spare		Spare
Brass	Plated	Lenses		Sockets
Each	Each	Each		Each
\$7.50	\$9.00	\$1.60		\$.25

With Flag Pole Socket add \$.50 each.

Furnished without Flag Pole Socket unless otherwise specified.

LIGHTS ON THIS PAGE CANNOT BE SUPPLIED WITH MEDIUM SCREW SOCKET.

Improved Pole Light Assembly

21/2 OR 3 INCH GLOBE, FIG. 250 OR 251 COMPLETE WITH FLAG POLE SOCKET AND ELECTRIC CONNECTIONS IN POLE AND SOCKET HOLLOW MAHOGANY POLE FOUR COATS VARNISH-HAND RUBBED



Fig. 531

Insert pole in socket and electric connection is complete. No wires exposed, no springs to corrode. A real positive hook-up, unaffected by water or corrosion.

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

Globe will accommodate bulb up to 50 C. P.

Length	Polished	Chromium	Dlam. Base
Pole	Brass	Plated	of Pole
Inches	Each	Each	Inches
24	7.50	8.75	11/4
30	7.75	9.00	11/4
36	8.00	9.25	11/4
48	9.00	10.25	11/4
Spare clear	globes (21/2 or	3 inch),	\$1.10 Each
Spare electri	c bulb sockets fi	g. 747,	.25 Each
Electric con	nectors only, (m	ale and female)	, 1.25 per set
Complete ex	cept F. P. socke	t, deduct	1.25 Each
With Red, G	reen or Blue Glo	be, add	.40 Each
Furnished w	ith 21/2 inch glo	be unless other	wise specified

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



Fig. 1145

Wired through hollow center of pole. Globe will take a 6 C. P. bulb, double contact. Base of pole is 1 inch.

This type is ideal for outboard motor boats and sma

unabouto.			
Length	Polished	Chromium	12.0
Pole	Brass	Plated	Weig
Inches	Each	Each	Pour
20	\$6.75	\$8.00	1
24	7.00	8.25	11/
30	7.25	8.50	11/
Complete	except F. P. so	cket—deduct	1.00 Each
	ar globes,		.75 Each
Spare ele	ctric bulb socke	ets, fig. 747,	.25 Each

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



		Angel Control of the
ength	Polished	Chromium
Pole	Brass	Plated
nches	Each	Each
20	\$5.75	\$7.00
24	6.00	7.25
30	6.25	7.50
Complete	e except F. P.	socket, deduct
Spare cl	ear globes.	acauct
Spare el	ectric bulb soc	kets fig. 747.

Combination Flag Pole and Light

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



NOTE—Furnished with wire outlet through side of pole instead of bottom if desired. Add \$.25 each.

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

2½ inch globes furnished unless 3 inch is specified.

Spare clear globes (2½ or 3 inch)

Spare electric bulb sockets Fig. 747,

With Red, Green or Blue Globe, add

.40 Each

Junior Flag Pole Lights

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



Junior Flag Pole Lights

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



Fig. 603

Wires concealed in pole and passing through socket under deck.

Length Overall	Polished Brass	Chromium Plated	Diam. Pole	Weight
Inches	Each	Each	Inches	Oz.
20	\$4.25	\$5.50	3/4	11
24	4.50	5.75	3/4	12
30	4.75	6.00	3/4	16

Mahogany Flag Poles

Turned from solid seasoned mahogany. Natural finish—varnished.



	Fig. 496		
Length Overall Inches	Each	F	meter lase aches
18	\$1.00	Pinney	3/4
18	1.30		11/4
24	1.80		11/4
30	2.60		11/4
36	3.25		11/4
48	4.00	-	11/4
With 1 inch diam. b	ase,	add \$.40 Each
With brass ferrule,	The state of	add	.40 Each



Pole Lights

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

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





Fig. 600

I. D. Neck Inches Spare Sockets Polished Chromium Spare Height Plated Each Brass Each Each Each Inches \$.25 41/4 5/8 \$.75 \$3.25 \$2.50

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





Fig. 491

Fig. 482

No	Brass	Chromium Plated Each	Spare Globes Each	Diam. Globe In.	Height In.	I. D. Neck In.	Wt.
	\$3.00	\$3.75	\$1.10	21/2	5	3/4	12
2	3.00	3.75	1.10	3	53/4	3/4	14

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





Fig. 484

Fig. 498

No	Brass	Chromium Plated Each	Spare Globes Each	Diam. Globe In.	Height In.	I. D. Neck In.	Wt. Lbs.
1	\$4.25	\$5.00	\$1.10	21/2	5	3/4	1
2	4.25	5.00	1.10	3	53/4	3/4	11/8

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

Pole or Mast Light

HEAVY BRASS—THREADED FRESNEL GLOBE DOUBLE CONTACT SOCKET—FOR ½ INCH PIPE



With 2½ or 3 inch globe fig. 250 or 251, will accommodate up to 50 C. P. bulb.

No.	Plain Brass Each	Polished Brass Ench	Chromium Plated Each	Diam. Globe In.	Height Overall In.	Diam. Base In.	Wt.
	\$3.25	\$3.75	\$4.25	21/2	31/2	21/4	11/8
2	3.25	3.75	4.25	,	4	2/4	178

Stern Lights

-WITH THREADED FRESNEL GLOBE DOUBLE CONTACT SOCKET

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



			Fig. 42	2		
No.	Polished Brass Each	Chromium Plated Each	Diam. Globe Inches	Height Overall Inches	Diam. Base Inches	Weight
1	\$3.50	\$4.50	21/2	51/2	23/8	12
2	3.50	4.50	3	6	23/8	14
3	4.00	5.25	3	12	23/8	20

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



			Fig. 506			
No.	Polished Brass Each	Chromium Plated Each	Diam. Globe Inches	Height Overall Inches	Diam. Base Inches	Weight
1	\$4.75	\$5.75	21/2	51/2	23/8	18
2	4.75	5.75	3	6	23/8 23/8	20
3	5.25	6.50	3	12	23/8	26

Spare clear globes for Figs. 362, 422 and 506, \$1.10 Eac Spare sockets Fig. 747, \$.25 Each With Red, Green or Blue Globe, add \$.50 Each

Stern Lights

CAST BRONZE



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

Fig. 375

Height	Base	Body	Lens	Weight
Inches	Inches	Inches	Inches	Lbs.
/	31/2	31/2	3 16 x 3 16	23/4
Plain	Polished	Chromium	Spare Lens	Spare Socket
Bronze	Bronze	Plated	Fig. 261	Fig. 747
Each	Each	Each	Each	Each
\$7.50	\$8.25	\$9.50	\$1.10	\$.25

With red, green, blue or amber lens, add \$1.00 each. With medium screw socket fig. 346 for 15 watt bulb, add \$1.00 each.

Stern Lights

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



Equipped with clear fresnel lens and fig. 222 medium screw electric socket. TT-1-64

Overall	Base	of Globe	Weight
Inches	Inches	Inches	Pounds
83/4	31/8	5x31/2	33/4
Plain	B	lished	Chromium
Bronze		ronze	Plated
Each		Each	Each
\$5.25	\$5.75		\$6.75
		1.75 each.	

With red, green, blue or amber globe, add \$1.25 each. With double contact socket fig. 276, add \$.50 each.

Stern Light

WROUGHT BRASS

With 360 degree fresnel lens and double contact electric socket.

Can be furnished in any height

desired	•			
Height Overall Inches 10	Diam. Base Inches 31/2	Diam. Neck Inches 7/8	Size Lens Inches 3 5 1 6 x 3 1 0	Weight Pounds 13/4
Bi E	ished rass ach		Pl E	mium ated ach
40	. 00		67	50

For each additional inch above standard height add \$.10.

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

Spare clear lens fig. 261, \$1.10 each. Spare socket fig. 276, .50 each

Mast Lights

CAST BRONZE



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

Height Inches 63/4	Diam. Body Inches 31/2	I	Size Lens nches	Inc	de gth eck hes	Ins Dia Ne Inc	m. ck hes		eight Lbs.	
Plain Bronze Each	Poli: Bro: Eac	nze	Chrom Plate Eac	d	Fi	re Lens g. 261 lach	F	ig.	Socket 747 ich	
\$7.00	\$7.5	0	\$8.5	0	\$	1.10		\$.25	

With red, green, blue or amber lens, add \$1.00 each. With medium screw socket fig. 346 for 15 watt bulb add \$1.00 each.

Mast Lights

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



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

Height Overall Inches	Diam. Bottom Opening Inches	Inside Length Neck Inches	Size of Globe Inches	Weight Pounds
9	13/4	21/2	5x31/2	4
Plai Bron Eac \$5.7	ze h	Polishe Bronz Each \$6.5	e	Plated Each \$7.75
100000	re globe:	12000000		Ψ15

Fig. 113

With red, green, blue or amber globe add \$1.25 each. With double contact socket fig. 276, add \$.50 each.

Spare sockets, \$.50 each.

Improved Mast Light

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



With Fig. 106 Clear Threaded Globe for bulb up to 75 watts, medium screw base. Diam. Length Height Bottom Inside

Size of

Inches	Inches	Inches	Inches	Pounds
10	13/4	21/2	5x31/2	51/2
Plai Bron Eac	ze	Polished Bronze Each		romium Plated Each
\$9.50		\$10.50	\$10.50 \$12.	
Sna	e globe	s. \$1.75	each	

Spare guards, \$2.00 each. Spare sockets, \$.50 each.

With red, green, blue or amber globe, add \$1.25 each. With double contact socket fig. 276, add \$.50 each.



Fig. 1119



Mast Light

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



Fig. 103

Will accommodate 15 watt A-17 bulb.

Threaded I. P. S. Weight Inches Pounds Height Overall Diam. Polished Bronze Each Inches Inches \$4.75 \$5.50 Chromium plated finish, add \$1.00 to polished price.

With red, green or blue globe, add \$.75 each. Spare clear globes fig. 249, \$1.25 each. Spare sockets fig. 222, \$.50 each. With double contact socket fig. 276, add \$.50 each.

Truck and Yardarm Fixture

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



Fig. 104

Will accommodate 15 watt A-17 bulb. Height Diam. Overall Globe Inches Inches Extreme Width Weight Inches Pounds Polished Plain Bronze Each Bronze Each \$5.25 \$6.25 5\% 3 4\/4 2
Chromium plated finish, add \$1.00 to polished price.
With red, green or blue globe, add \$.75 each.
Spare clear globes fig. 249, \$1.25 each. Spare sockets fig. 222, \$.50 each. With double contact socket fig. 276, add \$.50 each.

Mast Lights

BRASS BASE—CLEAR FRESNEL GLOBE MEDIUM SCREW SOCKET





Fig. 488

Fig. 489

Fig. 488 threaded ½ inch I. P. S. For 489 drilled for mounting on mast truck.

Polished Height Diam. Bronze Overall Base Each Inches Inches Opening In globe Inches Size Plain Bronze Each \$3.25 \$3.75 23/4 51/2×23/4

Chromium plated finish, add \$.75 to polished price.

Spare clear globes fig. 77, \$1.15 each. With red, green or blue globe add \$.60 each. Special porcelain electric sockets only fig. 222, \$.75

Bulbs for above, 120 volt 10 watt, clear \$.50 each.

Mast Light

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



Fig. 309

Height Overall Inches 6½	Size Globe Inches 5x31/2	Opening In globe Inches 23/4	Tapped for Pipe Size Inches	Weight Pounds 21/2
Plain Bronze Each		Polished Bronze Each	Chron Pla Ea	ted
\$5.00		\$5.50	\$6.50	

With red, green or blue globe, add \$1.25 each. Spare clear globes fig. 106, \$1.75 each. Spare sockets fig. 222, \$.50 each. With double contact socket fig. 276, add \$.50 each.

Mast Lights

CAST BRONZE—WIRE GUARD DOUBLE CONTACT SOCKET--PLAIN GLOBE WITH OR WITHOUT REFLECTING HOOD

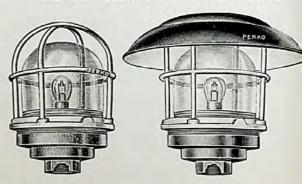


Fig. 1268

Fig. 1267

Globe is threaded type navy drawing 9-S-3129-L. Hood is spun brass, painted dull black outside whi enamel inside.

Socket is double contact fig. 472 No. 20. Base threaded 1/2 inch I. P. S.

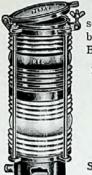
Fig. 1267	Plain Bronze Each \$9.50	Spare Globes Each \$1.00		Height Overall Inches 6		Wt- Lbs
1268	7.00	1.00	60	6	41/4	2

With red, green or blue globe, add \$1.25 each. With medium screw socket fig. 565 for 15 watt bull add \$.75 each.

With candelabra screw socket fig. 15, add \$.35 eac.

Truck Lights

CAST BRONZE-BLACK NAVY FINISH WITH RED AND CLEAR FRESNEL LENSES BAKELITE SOCKETS



Has 4 Candelabra Sockets in top section and 3 Candelabra Sockets in bottom section for 15 Watt Bulbs. Bulbs not included.

Height Inches	Lens Inches	for Pipe Inches	Weight Pounds
123/4	41/4 x 4	3/4	91/2
Each	Bul On Ea	ly	Spare Sockets Each

Spare clear lenses, fig. 261, \$1.50 each. Spare red lenses, fig. 261, 2.25 each.

\$.85

\$.50

Fig. 1259

Combination Blinker and Loading Light

\$40.00

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



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

Extreme Height Inches	Size Red Lens Inches	Size Clear Lens Inches	Wt. Lbs.
161/2	5x31/2	51/2×51/4	. 18

Tubular Spare Bulbs Sockets Each Each \$.50 \$48.00 \$.75

Spare clear lenses fig. 261, \$4.50 each. Spare red lenses fig. 106, \$3.00

each. With larger thread in base up to

11/2 inch I. P. S., add \$1.00 each.

Meal and Absent Light

CAST BRONZE-WATERTIGHT WITH BAYONET DOUBLE CONTACT SOCKET



Fig. 329

For mounting on yardarm, supplied with 2½ inch Fresnel globes, one blue, the other clear.

Polished Bronze Each	11	Chromium Plated Each	Length Overall Inches	Size Base Inches	Weight Pounds
\$10.00	-1	\$12.50	9	33/8×13/4	2

Mast or Blinker Signaling Lights

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



Fig. 403

Size No.	Size Lens Inches		I. P. S. Thread Inches	Weight Pounds	V	For ess Fee	
1	3 5 x 3 3	63/4	1/2	4	up	to	65
2	41/4 x 4	81/4	3/4	6	65	to	150
3	51/2 x 51/4	93/4	1	10	0	ver	150

Size	Clear	Colored	Electrical
No.	Each	Each	Equipment
1	\$14.00	\$14.75	1 medium screw socket
1-A	16.50	17.25	2 or 3 candelabra sockets
2	16.50	17.50	1 medium screw socket
2-A	19.00	20.00	2 or 3 candelabra sockets
2-B	22.50	23.50	6 light candelabra unit
2-C	18.50	19.50	1 mogul 3 wire socket
3	23.00	27.00	1 medium screw socket
3-A	26.00	30.00	4 medium screw sockets
3-B	25.50	29.50	3 candelabra sockets
3-C	29.00	33.00	6 light candelabra unit
3-D	25.00	29.00	I mogul 3 wire socket

All above sockets are Phenolic (Bakelite). 6 Light Candelabra unit, see fig. 845. For spare lenses, see fig. 261. Colored lenses are red, green, blue or amber.

BULBS FOR ABOVE

120 volt 60 watt A-19 clear for nos. 1, 2, 3, \$.60 each. 120 volt 15 watt T-7 clear for nos. 1-A, 2-A, 2-B, 3-B, and 3-C, \$.85 each.

120 volt 25 watt T-10 clear for no. 3-A, \$.75 each. 120 volt 50/50 watt P-25 clear for no. 2-C, 3-D, \$5.00 each.

Watertight Blinker Key

CAST BRONZE-BLACK FINISH-IMPROVED TUNGSTEN POINTS-CONDENSER



Fig. 9

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

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

Each	Length	Width	Height	Weight
	Inches	Inches	Inches	Pounds
\$18.00	43/8	23/4	23/8	4

ELECTRIC NAVIGATION LIGHTS FOR VESSELS OVER 65 FT. LONG

Watertight — Cast Bronze Rebulbing Cap — Terminal Tubes MOGUL 3-WIRE PHENOLIC SOCKETS FIG. 270 FOR DOUBLE FILAMENT BULBS



Fig. 1150

Side Lights, Fig. 1150

1121/2 DEGREE RED AND GREEN LENSES-10 POINT-IN PAIRS WITH BRACKET FOR MOUNTING

No.	Galvanized Steel Per Pair	Polished Brass Per Pair	Fig. 259 Height Inches	Height Less Handle Inches	Size Base Inches	Weight Per Pair Pounds	For Size Vessel feet
1	\$52.00	\$65.00	63/4	11	71/4 x 71/4	18	65 to 150
2	69.00	82.00	71/2	131/2	91/2 x 91/2	30	over 150
3	122.00	142.00	81/2	151/4	103/8 x 103/4	36	over 150

Masthead, Range and Towing Lights, Fig. 1151

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

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 256 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of lugs Inches	Weight Each Pounds
1	\$26.00	\$32.50	63/4	11	71/8 x 73/4	85/8	10
2	34.50	41.00	71/2	131/2	9 x 10	107/8	15
3	61.00	71.00	81/2	151/4	103/4 x 111/4	123/4	21

With red or green lens (special purpose) add \$6.00 each.



Fig. 1151



Fig. 1152

Stern Lights, Fig. 1152

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

No.	Galvanized Each Steel	Polished Each Brass	Lens Fig. 269 Inches Height	Height Inches Less Handle	Size Inches Base	C to C Inches of lugs	Weight Each Pounds
1	\$26.00	\$32.50	63/4	11	$7 \times 7\frac{1}{2}$	85/8 107/8	9
2	34.50	41.00	71/2	131/2	9 x 10	107/8	12
3	61.00	71.00	81/2	151/4	101/8 x 103/8	121/4	15

With red or green lens (special purpose) add \$6.00 each. With 45 degree red lens (for suction dredges) add \$9.00 each.

Anchor Lights, Fig. 1153

	WIT		E CLEAR LEI SHING EYES			
No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Each Pounds
1	\$25.00	\$31.50	63/4	121/2	73/8	11
2	33.50 60.00	40.00 70.00	71/2 81/2	1414	91/2	16 22

Breakdown Lights, Fig. 1154 360 DEGREE RED LENS_32 POINT

	WIT		SHING EYES		GUARD	
	Galvanized Steel	Polished Brass	Lens Fig. 261 Height	Height Less Handle	Diam. Base	Weight Each
No.	Each \$29.00	Each \$35.50	Inches	Inches 12½	Inches	Pounds
2	37.50	44.00	63/4	141/4	73/8	16
3	66.00	76.00	81/2	151/4	11	22



Fig. 1153 Fig. 1154

NOTES

Above prices do not include bulbs. Complete with double filament bulb fig. 532, 50 or 100 watt, add \$4.00 each. With medium Screw Phenolic Sockets fig. 346, deduct \$1.00 each. Spare cast bronze watertight caps with gasket, \$4.50 each. COPPER LIGHTS MADE TO ORDER—PRICE ON APPLICATION

OIL NAVIGATION LIGHTS FOR VESSELS OVER 65 FT. LONG

American Improved Hinged Top — Bottom Opening

SWIVEL FOUNT FIG. 282 — HINGED BURNER FIG. 242

LIP CHIMNEY FIG. 267 — FLAT WICK FIG. 302

Side Lights, Fig. 1155

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



No.	Galvanized Steel Per Pair	Polished Brass Per Pair	Lens Fig. 259 Height Inches	Height Less Handle Inches	Size Base Inches	Weight Per Pair Pounds	For Size Vessel feet
0	\$50.00	\$63.00	51/2	133/4	63/4 x 63/4	14	65 to 90
1	52.00	65.00	63/4	133/4	71/4 x 71/4	18	90 to 150
2	69.00	82.00	71/2	18	$9\frac{1}{2} \times 9\frac{1}{2}$	29	over 150
3	122.00	142.00	81/2	193/4	103/4 x 103/4	38	over 150

Masthead, Range and Towing Lights, Fig. 1156

Fig. 1155

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

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 256 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of lugs Inches	Weight Each Pounds
0	\$25.00	\$31.50	51/2	133/4	7 x 71/4	81/2	7
1	26.00	32.50	63/4	143/4	71/8 x 73/4	85/8	9
2	34.50	41.00	71/2	18	9 x 10	107/8	15
3	61.00	71.00	81/2	193/4	103/4 x 111/4	123/4	21

With red or green lens, (special purpose) add \$6.00 each.



Fig. 1156

Stern Lights, Fig. 1157

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

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 269 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of lugs Inches	Weight Each Pounds
0	\$25.00	\$31.50	51/2	133/4	7 x 71/4	81/2	6
1	26.00	32.50	63/4	143/4	7 x 71/2	107/8	8
2	34.50	41.00	71/2	18	9 x 10	107/8	13
3	61.00	71.00	81/2	193/4	$10\frac{1}{8} \times 10\frac{3}{8}$	121/4	16

With red or green lens (special purpose) add \$6.00 each. With 45 degree red lens (for suction dredges) add \$9.00 each.

Anchor Lights, Fig. 1158

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

No.	Galvanized Steel Each	Polished Brass Each	Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Each Pounds
0	\$24.00	\$30.50	51/2	133/4	73/8	10
1	25.00	31.50	63/4	143/4	73/8	11
2	33.50	40.00	71/2	18	91/2	17
3	60.00	70.00	81/2	193/4	11	23

Breakdown Lights, Fig. 1159

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

	WITH FOO	It DANIEL	Lens	20 1111D 11	11011	TUD.
	Galvanized Steel Each	Polished Brass Each	Fig. 261 Height Inches	Less Hand	Diam. le Base Inches	Weight Each Pounds
No.						
0	\$28.00	\$34.50	51/2	133/4	73/8	10
1	29.00	35.50	63/4	143/4	73/8	11
2	37.50	44.00	71/2	18	91/2	17
3	66.00	76.00	81/2	193/4	11	23
2.50		COMBIN	ATION		ELECTRIC	LIGHTS

Fig. 1158 Fig. 1159

With single 2 wire medium screw adapter fig. 288 add \$2.25 each.

With double 2 wire medium screw adapter fig. 289 (for sizes 2 and 3 only) add \$3.75 each.

With 3 wire mogul adapter fig. 1082 for double filament bulb, add \$4.00 each.

COPPER LIGHTS MADE TO ORDER—PRICE ON APPLICATION



Fig. 1157



Complete oil lamp used in all lights on this page.

ELECTRIC NAVIGATION LIGHTS FOR VESSELS OVER 65 FT. LONG Flat Top Style — Bottom Opening

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



Side Lights, Fig. 30

1121/2 DEGREE RED AND GREEN LENSES-10 POINT-IN PAIRS WITH BRACKET FOR MOUNTING

No.	Galvanized Steel Per Pair	Polished Brass Per Pair	Lens Fig. 259 Height Inches	Height Less Handle Inches	Size Base Inches	Weight Per Pair Pounds	For Size Vessel feet
0	\$34.00	\$47.00	51/2	101/2	61/2 x 61/2	12	65 to 90
1	37.00	50.00	63/4	11	71/2 x 71/2	14	90 to 150
2	51.00	66.00	71/2	131/2	91/2 x 91/2	24	over 150

Fig. 30

Masthead, Range and Towing Lights, Fig. 983

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

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 256 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of lugs Inches	Weight Each Pounds
0	\$17.00	\$23.50	51/2	101/2	7 x 7	81/2	6
1	18.50	25.00	63/4	11	7 x 7	85/8	8
2	25.50	33.00	71/2	131/2	9 x 91/2	107/8	121/2

With red or green lens (special purpose) add \$6.00 each.



Fig. 983



Stern Lights, Fig. 986

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

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 269 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of lugs Inches	Weight Each Pounds
0	\$17.00	\$23.50	51/2	101/2	7 x 7	81/2	51/2
1	18.50	25.00	63/4	11	7 x 7	85/8	7
2	25.50	33.00	71/2	131/2	9 x 91/2	107/8	91/2

With red or green lens (special purpose) add \$6.00 each. With 45 degree red lens (for suction dredges) add \$9.00 each.

Fig. 986

Anchor Lights, Fig. 32
360 DEGREE CLEAR LENS—32 POINT
WITH FOUR LASHING EYES AND WIRE GUARD

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Each Pounds
0	\$16.00	\$22.50	51/2	11	71/2	8
1	17.50	24.00	51/2 63/4 71/2	12	71/2	9
2	24.50	32.00	71/2	141/2	91/2	13

Breakdown Lights, Fig. 84

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

	Galvanized	Polished	Lens Fig. 261	Height	Diam.	Weight
	Steel Each	Brass Each	Height Inches	Less Handle Inches	Base	Each
No.	\$20.00	\$26.50	51/2	11	Inches 71/2	Pounds
1	21.50	28.00	63/4	12	71/2	9
2	28.50	36.00	71/2	141/2	91/2	- 13
				NOTES	1000	



Fig. 32 Fig. 84

Above prices do not include bulbs.

With double 2 wire medium screw adapter fig. 289 (Size 2 only) add \$1.50 each.
With 3 wire mogul adapter fig. 1082 for double filament bulb, add \$2.00 each.
COPPER LIGHTS MADE TO ORDER—PRICE ON APPLICATION

OIL NAVIGATION LIGHTS FOR VESSELS OVER 65 FT. LONG

Turret Top — Bottom Opening

SWIVEL FOUNT FIG. 282 — HINGED BURNER FIG. 242 LIP CHIMNEY FIG. 267 — FLAT WICK FIG. 302

Side Lights, Fig. 21

1121/2 DEGREE RED AND GREEN LENSES-10 POINT-IN PAIRS WITH BRACKET FOR MOUNTING

No.	Galvanized Steel Per Pair	Polished Brass Per Pair	Lens Fig. 259 Height Inches	Height Less Ring Inches	Size Base Inches	Weight Per Pair Pounds	For Size Vessel Feet
9	\$36.00	\$49.00	51/2	14	61/2 x 61/2	13	65 to 90
10	39.00	52.00	63/4	15	71/2 x 71/2	15	90 to 150
11	53.00	68.00	71/2	183/4	91/2 x 91/2	26	over 150

No.

Masthead, Range and Towing Lights, Fig. 982

		REE CLEAR OUR LUGS				
Galvanized Steel Each	Polished Brass Each	Lens Fig. 256 Height Inches	Height Less Ring Inches	Size Base Inches	C to C of lugs Inches	Weight Each Pounds
\$18.00	\$24.50	51/2	14	7 x 7	81/2	9/2
19.50	26.00	03/4	183/4	7 x 7 9 x 9½	1078	14
26.50	34.00	71/2	11 00 00	, x 172	1078	



Stern Lights, Fig. 985

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

vo.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 269 Height Inches	Height Less Ring Inches	Size Base Inches	C to C of lugs Inches	Weight Each Pounds	
0	\$18.00	\$24.50	51/2	14	7 x 7	81/2	6	
1	19.50	26.00	51/2 63/4	15	7 x 7	8 1/3	71/2	
2	26.50	34.00	71/2	183/4	$9 \times 9 \frac{1}{2}$	107/8	101/2	

With red or green lens (special purpose) add \$6.00 each. With 45 degree red lens (for suction dredges) add \$9.00 each.

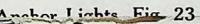




Fig. 596A

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

Polished Brass Each	Size Lens Inches	Overall Inches	Fount	Capacity Fount Pints	Weight Pounds
\$18.00	41/4 x 4	14	7	31/2	41/2

With red, green or blue lens, add \$1.50 each. Fig. 596-A Fount complete, \$9.50 each.
Light only, without Fount, \$11.00 each.
Spare burners, wicks and chimneys, see figs. 245

and 272.

Spare lenses, see fig. 261.

2 POI	NT	
WIRE	GUARD	
ht	Diam.	Weight Each
ing	Base Inches	Pounds
5	71/2	81/2
1	71/2	10
2	91/2	14
110	0	
12	9	

NT	JARDS	
t	Diam.	Weight
ng	Base	Each
8	Inches	Pounds
No.	71/2	81/2
Ĭ.	71/2	10
1	91/2	14

Fig. 23

LECTRIC LIGHTS

288, add \$2.25 each. 289, for sizes 2-11-23 only, add \$3.75 each. le filament bulb, add \$4.00 each. ER—PRICE ON APPLICATION



Weigh

Lbs.

Pol.

Bras. Each

Globe-Distress or Signal Light

OIL-TURRET TOP-BOTTOM OPENING CLEAR GLOBE



Diam. Globe Inches	Height Overall Inches	Weight Pounds
6	11	4
8	141/2	6
10	22	12

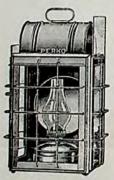
	m. W. b. d
	Polished Brass
Each	Each
\$9.75	\$13.75
11.25	16.50
20.50	27.50
	\$9.75 11.25

Polished copper order, price on application.

With red, green, blue or frosted globe, add \$2.00 each. Electric only, same prices as above. Comb. oil and electric 6 and 8 inch, add \$1.10 each. Comb. oil and electric 10 inch, add \$1.75 each. Hinged bottom furnished with 8 inch size only.

SPARE PARTS

Size	Globes Burners						Elec.		
6	Fig. 26	4 Fig.	246	No.	0	Fig.	735	Fig.	274
8	Fig. 26	4 Fig.	246	No.	1	Fig.	286	Fig.	292
10	Fig. 26	4 Fig.	246	No.	2	Fig.	282	Fig.	288



Bulkhead Lantern

WITH REMOVABLE GLASSES OIL BURNING

Front Inches	Body Side Inches	Height Overall Inches
9 x 13	73/4 x 13	16
Galvanized Each	Polished Brass Each	Glasses Only Each
\$17.50	\$24.00	\$.75

Brass fount only, with burner, wick and chimney, \$4.50 each.

Size of Globe Inches

4 x 61/2

Each ... \$6.50

8.00

Weight

Pol.

Brass

Each \$7.75

9.25

'FS

Navy or Life Boat Lantern OIL BURNING—APPROVED

With clear globe.

With colored globe.....

of Base

Height Inches



Fig. 49

With electric adapter fig. 292, add \$1.00 each. SPARE PARTS

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

Colored globes are red, green or blue.

Engineer's Hand Lantern



OIL BURNING Dlam.

Height Inches of Base Inches Inches 21/2 x 41/4 Galv. Each

\$6.0 With clear globe With colored globe 6.25 7.2 Colored globes are red, green or blue

\$5.00

Brass founts only, \$1.00 each. Spares Parts - Burner fig. 246, No. 0; Globe fig. 263.



Portable Staff Light ELECTRIC—360° FRESNEL LENS WITH PACKING GLAND FOR

CABLE MEDIUM SCREW SOCKET



With red, green or blue lens, add \$1.50 each.

Spare lenses, see fig. 261, Senior.



Fig. 16

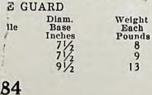
Battery Marker Light

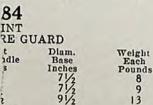
COPPER CASE—WATERTIGHT WITH TURN SWITCH AND BULB

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

Height Diameter Overall at Base Inches Inches Without Battery Each Battery Each Inches 43/8 \$10.00 \$11.00

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







Smar

fig. 289 (Size 2 only) add \$1.50 each. double filament bulb, add \$2.00 each. DER-PRICE ON APPLICATION

Battery Side Lights For Oil Carriers

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

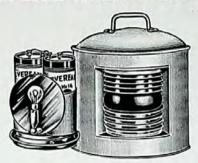


Fig. 1008

Designed for use with two ordinary 11/2 volt dry cells such as Eveready No. 6, readily obtainable.

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

Gal- vanized Per Pair	Spare Bulbs Each	Lens Fig. 259 Each	Height Lens Inches	Height Less Handle Inches	Size Base Inches
\$37.50	\$1.25	\$5.50	63/4	111/2	71/2×71/2

Above price includes bulbs, no batteries.

With batteries, add \$3.50 per pair. Bulb is double contact 2.7 volts .15 amp. S-11.

Battery containers as illustrated, complete with reflector, socket, bulb and switch. No batteries, \$18.00 per pair.

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

10 Day Oil Anchor Light

360 DEGREE CLEAR FRESNEL LENS LATCHED SWIVEL FOUNT





Fig. 596A

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

Polished Brass Each	Size Lens Inches	Height Overall Inches	Fount		Weight Pounds
\$18.00	41/4 x 4	14	7	31/2	41/2

With red, green or blue lens, add \$1.50 each. Fig. 596-A Fount complete, \$9.50 each. Light only, without Fount, \$11.00 each. Spare burners, wicks and chimneys, see figs. 245 and 272.

Spare lenses, see fig. 261.

ND PIER LIGHTS

Commerce regulations for lighting of bridges and —waterproof. Medium screw sockets.

_ight LENS

Draw Bridge Light RED AND GREEN PANEL GLASSES



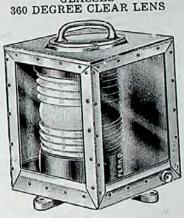


Fig. 1007

Galv. Steel	Polished Copper	Size Lens	Overall	Base	Wt.
Each	Each	Inches	Inches	Inches	Lbs.
\$19.00	\$22.00	41/4 x 4	161/2	61/2	51/2 81/2
30.00	33.00	51/2 x 51/4	18	61/2	81/2
	Steel Each \$19.00	Steel Copper Each Each \$19.00 \$22.00	Steel Copper Lens Inches \$19.00 \$22.00 41/4 x 4	Steel Each Copper Each Lens Inches Overall Inches \$19.00 \$22.00 4½ x 4 16½	Steel Each Copper Each Lens Inches Overall Inches Base Inches \$19.00 \$22.00 41/4 x 4 161/2 61/2

No. 1 with red, green or blue lens, add \$1.50 each. No. 2 with red, green or blue lens, add \$3.50 each. Above prices include bulb, no batteries.

With batteries, add \$3.50 per set.

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

Spare lenses, see fig. 261.

Spare switches, see fig. 745. Spare sockets, \$.35 each.

Spare battery containers, galv., \$6.75 each. Copper, \$8.50 each.

8 Day Western Trap Light

360 DEGREE CLEAR FRESNEL LENS OIL BURNING-LATCHED FOUNT



Fig. 14

With special Zenith burner and gear arrangement for control of wick from exterior of light. Eight days of continuous light on one filling.

Galvanized Steel Each	Height Lens Inches	Height Overall	Bottom	Capacity Fount	Weight
\$57.50	71/2	Inches 22	Inches 10	Pints 6	Pounds 20

With red, green or blue lens, add \$4.00 each. Fount complete with burner and gears, \$25.00 each. Light only, without Fount, \$40.00 each. Zenith burner only, \$1.25 each. Zenith burner with gears, \$3.75 each. Spare lenses, see fig. 261.

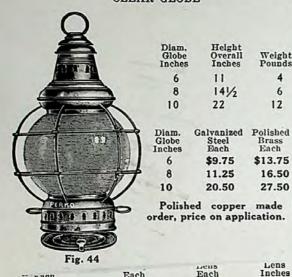
4

6

12

Globe-Distress or Signal Light

OIL-TURRET TOP-BOTTOM OPENING CLEAR GLOBE



\$44.00

tion Pier Lights, Fig. 59

O DEGREE RED FRESNEL LENS FIG. 131 BRACKETS FOR MOUNTING OM OPENING-SWIVEL FOUNT

Height Lens Inches 73/8	Height Overall Inches 2	Size Base Inches 9 x 10	Width Overall Inches 141/2	Weight Pounds 13
only, \$37.0 ctric, \$41.2				2

. same prices as above.

1 Lights, Fig. 80

SNEL LENS TRE GUARD L FOUNT

Height Less Handle Inches	Diam. Base Inches	Weight Pounds
18	91/2	17



Fig. 80



racn

\$37.50

Regulation Draw Bridge Lights, Fig. 63

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

Galvanized Steel Each	Spare Lens Each	Spare Founts Each	Height Lens I Inches	Height Less Handle Inches	Width Overall Inches	Size Panels Inches	Weight Pounds
\$55.00	\$7.50	\$5.50	71/2	18	111/4	$9\frac{1}{2} \times 10\frac{1}{2}$	18

Electric only, same price as above.

Combination Oil and Electric, add \$3.75 each.

Spare glass Panels, \$2.50 each.

Each

\$11.00

With flat top for electric only, deduct \$2.00 each. Combination Oil and Electric, add \$2.25 each

With red or blue lens, same prices as above.

Tri-Color Trawler Lights FOR STEAM TRAWLERS

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

No.	Galv. Steel Each	Pol. Brass Each	Spare Lenses Each	Height Lenses Each	Height Fig. 407 Inches	C to C of lugs Inches	Wt.	
1	\$41.50	\$55.00	\$3.75	63/4	15	85/8	10	
2	47.00	60.00	5.50	63/4	171/2	107/8	1,4	
*****	TI . T	- 11- 400	o fam Fla		Dadas	\$2 00 a	ah	

With Flat Top fig. 408 Combination Oil and Electric, add \$2.25 each.



Fig. 408 Electric



Fig.

SPARE PARTS FOR ALL LIGHTS ABOVE

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

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

CAST BRONZE BRIDGE AND PIER LIGHTS

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

Pier Light

180 DEGREE RED LENS

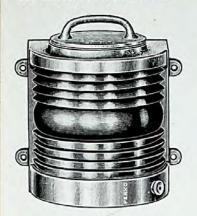


Fig. 1005

Height, less handle	9 % in.
Width, centers of holes	9% in.
Height, centers of holes	5% in.
Width base	81/4 in.
Depth base	71/2 in.
Opening in top	5 in.
Height lens	7% in.
Circum. lens at bull's eye	12% in.
Weight	191/2 lbs.
	Each

Black nickel finish\$53.00 Furnished with green lens when desired at same price.

Spare lenses, see fig. 260.

Pier Light ON PEDESTAL 180 DEGREE RED LENS



Fig. 125

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

Black nickel finish\$60.00

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	7½ in.
Diameter lens	7½ in.
Weight	22 lbs.
	-

....\$53.00 Black nickel finish Spare lenses, see fig. 261.

Obstruction Light

ON PEDESTAL 360 DEGREE RED LENS



118. 120	
Height overall	19 in.
Diameter pedestal, pipe size	1 in.
Diameter base	5 in.
Other sizes, see Fig. 1006	
	Each \$60.00

Draw Bridge Light

RED AND GREEN PANEL GLASSES 360 DEGREE CLEAR LENS

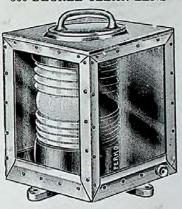


Fig. 1007

118. 1001	-	
Height, less handle	11/2	in.
Width of body	10% i	in.
Depth of body	10%	in.
	11/2 i	in.
Height and width panels		
in clear	8%	in.
Opening in top	5	in.
Height fresnel lens	71/2	in.
Diameter fresnel lens	71/2	in.
Weight	51 lb	os.
	Eac	ch
Black nickel finish	\$75.	00
Extra panel glasses	. 2.	50
Spare lenses, see fig. 261.		

Lift Bridge Lights

180 DEGREE RED AND GREEN



Fig. 127 21 1/2 in. Height overall Other sizes, see Fig. 1005 Black nickel finish\$110.00

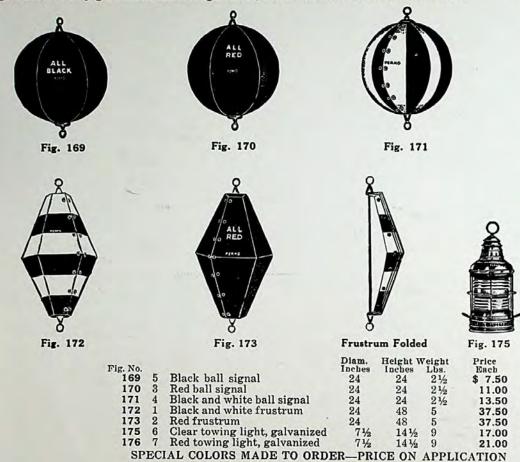
Shorter pedestals furnished if desired, price as above. Longer pedestals than standard, add \$.50 per inch.



Ball Folded

DAY SIGNALS

All made of heavy, 8-ounce duck, double stitched, brass trimmings, folding ring on top and bottom, bras grommets, heavy galvanized rod through center, tinned wire ribs, all fold as illustrated.



RULES IN EFFECT ON DAY SIGNALS

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

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

RULE NO. 2.—For all style vessels fastened alongside of wrecks, or moored over a wreck, two of our No. shapes are required during the day, and at night two of our No. 6 White and two of our No. 7 Red Towing Light

RULE NO. 3—Dredges in stationary positions require two of our No. 3 Red Balls during the day, and a night several of our No. 6 White Towing Lights and two of our No. 7 Red Towing Lights.

RULE NO. 4—For Self-Propelling Suction Dredges under way with their suctions in the bottom, required uring the day two of our No. 5 Black Balls, and during the night, in addition to regulation lights, two Red Manuel Lights and two special Four Point Red Lights.

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

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

OTHER USES AND REGULATIONS FOR DAY SIGNALS

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

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

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

Philadelphia Cabin Lamp

DOUBLE SWING—WEIGHTED BASE REMOVABLE FOUNT—ALL BRASS



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

No.	Polished Each \$11.00	Chrome Plated Each \$13.75	Height Inches	Extension Inches	Capacity Fount Pints
4	φ11.00	410.10		-/2	. / 6

Maine Cabin Lamp

STIFF BRACKET—NON SWING REMOVABLE FOUNT—ALL BRASS



Fig. 136

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

		Chrome		Exten-	Capacity	Wall
No.	Polished Each \$9.00	Plated Each \$11.75	Height Inches 12	sion Inches 8	Fount Pints	Plate Inches 3x17/8

Smoke Bell and Arm



Fig. 128

No.	Polished Brass Each	Chromium Plated Each	Diam. Bell Inches	to Center Inches	Weight
Midget	\$1.75	\$2.75	4	31/2	31/2
4101	1.75	2.75	4	33/4	4
2	1.75	2.75	4	4	4
3	1.75	2.75	61/4	53/4	61/2
4	1.75	2.75	61/4	61/2	7
		lamp Fig			

No. 4 size is for lamp Fig. 137.

Newport Cabin Lamp

DOUBLE SWING—WEIGHTED BASE
ALL BRASS



Fig. 141

This lamp is of very sturdy construction, refined appearance and minimum practical extension from wall. Diameter of wall plate 2½ inches. With hinge burner fig. 242 and chimney fig. 267.

No.	Polished Brass Each	Chrome Plated Each	Height Inches	Exten- sion Inches		Burner Number
1	\$7.75	\$10.50	121/8	51/2	1	2
2	8.75	11.50	121/2	6	11/4	2

Universal Wall Lamp

HEAVY TIN PLATE



Fig. 312

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

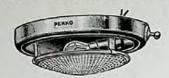
Each Complete	Height of Back Inches	Diam. of Fount Inches	Weight Each Lbs.
\$3.25	9	5	11/2

30 Perkins Marine Lamp & Hardware Corp.



"Brightlite" Dome Lights

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



Shallow-Fig. 1147



Deep-Fig. 1148

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

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

No.	Chromiun l'lated Each	n Diam. Globe Inches	Depth Inches	Diam. Base Inches	Type Globe
1	\$4.00	4 Shallow	13/4	51/2	Holophane
2	4.00	4 Shallow	13/4	51/2	Frosted
3	4.00	4 Deep	3	51/2	Holophane
4	4.75	5 Shallow	2	61/2	Frosted
5	4.75	5 Deep	3	61/2	Holophane

Above prices do not include bulb.

For spare globes see figs. 132, 257 and 258. Spare sockets fig. 276, \$.50 each.

Watertight Dome Light

CAST BRONZE-DOUBLE CONTACT SOCKET WITH THREADED DIFFUSING GLOBE

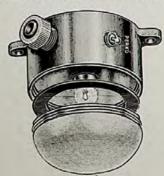


Fig. 1266

For small boats. Will accommodate a 6 C. P. low volt-

ige buib.	** 1011 1410	nei i iate	u remece	or.	
Plain	Polished		Diameter	Extreme	***
Bronze Each	Bronze Each	Diameter Inches	Globe	Depth Inches	Weight Pounds
\$6.00	\$7.00	31/2	31/4	23/4	13/4

Chromium plated finish, add \$1.25 to polished price. With Toggle Switch add \$1.25 each. With Watertight Packing Glands for cable entrance or

exit add \$.75 for each Gland.
Spare Sockets fig. 472 No. 20, \$.60 each.
Spare Globes, \$.90 each.

Dome Lights

CAST BRONZE

With improved toggle switch and nickel plated flector. Globe held in place by threaded collar and p tected from breakage by two rubber gaskets. Nos. 1, 3 and 5 fitted with Fig. 276 double control

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

WITH DEEP HOLOPHANE GLOBE



Fig. 454

No.	Diam. Base Inches 5	Depth Inches	Diam. Globe Inches 4	•
2	8	41/4	6	
	Polished Bronze	Chromium Plated	Spare Globes	So
No.	Each	Each	Each	E
1	\$8.00	\$9.50	\$1.00	\$
2	12.25	14.00	3.75	

WITH SHALLOW HOLOPHANE GLOBE



		T.18. 000	
No.	Diam. Base Inches	Depth Inches	Diam. Globe Inches
3	5	1%	4
4	8	21/8	6
	Polished Bronze	Chromium Plated	Spare Globes
No.	Each	Each	Each
3	\$8.00	\$9.50	\$1.00
4	11.00	12.75	2.00

WITH SHALLOW FROSTED GLOBE



Fig. 460

No. 5	Diam. Base Inches 5 8	Depth Inches 1% 2%	Diam. Globe Inches 4 6
No. 5 6	Polished Bronze Each \$8.00 11.00	Chromium Plated Each \$9.50 12.75	Spare Globes Each \$1.00 2.00

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

Above prices do not include bulb.

PERKE Perkins Marine Lamp & Hardware Corp. 31

Dome Lights

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



Fig. 294

Wrought Brass with Nickel Plated Reflector

AATA	Jugne Diass	MICH TAICHEL	I laced leer	iccoor.
Diam. Glass Inches	Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Depth Overal Inches
3	\$3.50	\$4.75	41/4	13/4
4	4.25	5.50	51/2	17/8
5	4.75	6.25	65/8	23/4
6	6.00	7.50	71/2	23/4
Spare	ockete see f	ig. 747.	,	

Dome Lights

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



Fig. 296

Diam.	Polished	Chromium	Diam.	Depth
Glass	Brass	Plated	Base	Overall
Inches	Each	Each	Inches	Inches
3	\$3.50	\$4.75	41/4	13/4
4	4.25	5.50	51/2	17/8
5	4.75	6.25	65/8	23/4
6	6.00	7.50	71/2	23/4
Spare	sockets, see	fig. 747.	44.5	

Dome Lights

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



	With fig.	276 Doubl	e Conta	ct Socket	
No.	Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Diam. Globe Inches	Depth Inches
7	\$4.25	\$5.50	6	41/4	21/4
8	5.75	7.25	7	51/2	23/4
	With fire	346 Stand	ard Scre	w Socket	

9 6.00 7.50 7 5½ 2¾ Bulb with standard screw base for this light, see Fig. 8. Spare globes, see Fig. 133.

Dome Lights

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

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

Nickel plated reflectors wired ready for installing. Will allow use of single 75 watt bulb.

WITH FLANGE



Fig. 753

	With Single fig.	346 So	cket	
Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Diam. Glass Inches	Depth Overall Inches
\$12.25	\$14.25	95/8	8	3

WITHOUT FLANGE



Fig. 754

With Single fig. 346 Socket

Polished	Chromium	Diam.	Diam.	Depth
Brass	Plated	Base	Glass	Overall
Each	Each	Inches	Inches	Inches
\$10.50	\$12.25	71/2	8	3

New "Tear-Drop" Fixture

CHROMIUM PLATED DOUBLE CONTACT SOCKET-TURN SWITCH

Fig. 301





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

Complete Each	Spare Globe Each	Spare Socket Each	Spare Bulb Each	Overall Size Inches	Depth Inches	Weight Ounces
\$4.50	\$.75	\$.60	\$.40	5 x 3	17/8	11

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



ELECTRIC CABIN FIXTURES

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

Round Base Pattern

WITH PUSH BUTTON SWITCH-SPUN BRASS



Fig. 308

Polished	Chromium
Brass	Plated
Each	Each
\$2.00	\$2.75

Diam. Base Inches 21/2

Projection Drop less less Lamp Weight Inches 3 6

Square Base Pattern

WITH TOGGLE SWITCH-CAST BRONZE



Fig. 450

Polished	Chromium
Bronze	Plated
Each	Each
\$3.00	\$3.75

Size Inches 2x2Spare toggle switch \$.50 each.

Drop Lamp Inches 25/8

Projection less Lamp Inches Weight Ounces 12

New Streamline Pattern

CHROMIUM PLATED BAKELITE MEDIUM SCREW SOCKET-TURN SWITCH



Fig. 217

Size Base Each Inches \$2.50 21/2 x 21/4 Drop Depth Less Lamp Less Lamp Weight Inches Inches Ounces

Double Ceiling Fixture

CAST BRONZE-STANDARD SCREW SOCKETS WITH TOGGLE SWITCH



Fig. 451

Chromium Plated Each Polished Bronze Each \$7.00 \$5.75

Size Base Inches 31/2×2 Extension from Ceiling Inches 25/8

Spare toggle switch \$.50 each.

Upright Pattern

WITH TOGGLE SWITCH-CAST BRONZE



Fig. 304

Polished Chromium Plated Each Bronze Each \$4.75 \$6.00

Size Plate Inches 41/2×25/8

Spare toggle switch \$.50 each.

Projection less Lamp Inches 25/8

Junior Fixtures

WITH DOUBLE CONTACT SOCKET TOGGLE SWITCH-CAST BRONZE



Fig. 605

Polished Bronze

Chromium Plated Each \$3.75

Base Inches 13/4×13/4

Projectio Drop less less Lamp

Spare toggle switch \$.50 each. PRICES ON THIS PAGE DO NOT INCLUDE BULBS. WHEN ORDERING BULBS, SPECIFY VOLTAGE AN CANDLEPOWER, FROSTED OR CLEAR. ABOVE FIXTURES ARE SUPPLIED, NOT WIRED.

Frosted Each

\$.75

.75

1.00

.75

1.00

.65

.65

.65



Mazda Lighting Bulbs





Bulb No.	Diam. Inches
1483	16
G- 6	3/4
S- 6	3/4
T- 7	1/8
S- 8	
S-11	1 3/8
R-11	1 3/8

Length Overall Inches	
Inches	
1 75	
21/2	
21/2 2 3/8	
21/8	



50

15

50

25

10

60

100

12

32 32

120

120

120

Bulb. No.	Diam. Inches	Length Overall Inches
T-10	11/4	53/8
S-14	13/4	31/4
A-17	21/8	3 %
A-19	2 3/8	3 18
A-21	23/8	4 1,8

Clear

Each

.95

.75

.75

.50

.50

.75

\$.95

Fig. 337	PR-11		1 7/8	-78
Volts	Candle Power	No.	Base	Clear Each
2.7	.15 amp.	S-11	D. C.	\$1.25
	.06 amp.	T-3 ¼	Miniature	.50
	.04 amp.	1483	Miniature	.40
6- 8	3	G-6	D. C.	.20
6- 8	6	G-6	D. C.	.25
6- 8	15	S-8	D. C.	.35
6- 8	21	S-8	D. C.	.40
12-16	3	G-6	D. C.	.25
12-16	6	G-6	D. C.	.30
12-16	15	S-8	D. C.	.45
12-16	21	S-8	D. C.	.60
32 32 32 32 32	3 6 15 21	G-6 G-8 S-8 PR-11	D. C. D. C. D. C. D. C.	.95 1.00 1.25 1.50
110	6 watt	S-6	D. C.	.65
110	10 watt	S-8	D. C.	1.25
120	6 watt	S-6	Candelabra	.75
120	15 watt	T-7	Candelabra	.85

Packed, 10 bulbs to a box.

Double Filament Bulb

Base

Medium

Medium

Medium

Medium Medium

Medium

Mediun'

Medium

Medium

Medium

Medium

Medium

Medium

Packed, 6 bulbs to a package.

A-17

A-19

A-21

A-21

A-17

A-21

T-10

S-14

A-19

MOGUL BASE FOR THREE WIRE SYSTEM

120 VOLTS

Fig. 532

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

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

Height Overall Diam. Inches Inches Watts 50-50 100-100 Each \$5.00 5.25 Packed, 6 bulbs to a package.

FOR DOME AND BERTH LIGHTS

	Bulb No. S-11		Diam Inche	8	Overall Inches 23/8
()	Volts	No.	C. P. or Watts	Base	Clear Each
\ /	6- 8	S-11	21	Medium	\$1.25
DERKO 4	12-16	S-11	21	Medium	1.35
	32	S-11	15	Medium	2.25
	120	S-11	15	Medium	1.80

Packed, 20 bulbs to a box. Fig. 8

Mazda Searchlight Bulbs Fig. 24

Volts 6_8 6_8 6_8 6_8	Watts	Candle Power 32 50 100	No. PR-11 PR-11 G-16 ¹ / ₂	Base D. C. D. C. D. C.	Dlameter 1 1/4 1 3/8 2 11 3 14	Dength Overall 2 18 2 3/8 3 4 3/4	Each \$.55 .75 2.50 5.00
	108	18 amp. 32	P-25 PR-11	Medium D. C.	11/4	2 5	.75 .95
12_16 12_16 12_16 12_16	216	50 100 18 amp.	PR-11 G-16½ P-25	D. C. D. C. Medium	1 3/8 2 16 3 1/8	23/8 3 43/4	2.50 6.00
32	2, amp.	32 50 100	PR-11 PR-11 G-161/2	D. C. D. C. D. C.	1 1/4 1 3/8 2 10	2 10 2 3/8 3	1.75 2.25 3.25 3.75
32 32 32 32 32 32	3.5 amp. 256 400	150 8 amp.	G-16 ¹ / ₂ P-25 G-30	D. C. Medium Medium	3 1/8 3 3/4	43/4 5 16	6.00 9.00
120	100 250		G-16½ T-10 T-10	D. C. Medium Medium	2 12 11/4 11/4	3 51/2 51/2	2.50 7.50 8.50
120 120 120	400 500 1000		T-20 T-20	Medium Medium	21/2 21/2	51/2	7.50 8.00



OIL FOUNTS AND ELECTRIC ADAPTERS

ALL BRASS—FOR LIGHTS CLASS 3 AND SMALLER

Oil



Electric Medium Screw

Fig. Each 582 \$1.00 1.50

Weight Ounces Diameter Inches 23/4 23/4

Delite Type

For Lights Figs. 01-04-05-08-09 01-010-04-05-040-050-08

09-080-090

Fig. 582

Fig. 588

Price of Fig. 582 does not include holder illustrated.

Spring Type

Oil



Oil and Electric

Electric Double Contact

Electric Medium Screw Oil and Electric Double Contact



Fig. 286



Fig. 736



Fig. 291



Fig. 292

Fig. 733

Fig.	Each	Diameter Overall Inches	Opening In Light Inches	Weight Per Dozen Pounds
286	\$1.00	35%	3 3	21/2
291	1.50	35/8	3 3	3
292	1.50	35/8	3 3	31/2
733 oil only	1.00	31/2	25/8	2
733 O. and E.	2.25	31/2	25/8	33/4
736	2.25	35/8	3 3	41/2

For Lights Figs. 06-17-18-19-20-49 and 44, 8 inch size 06-12-17-18-19-20-49 and 44, 8 inch size 06-17-18-19-20

Swivel Type

Oil



Electric

Double Contact

Fig. 287



Fig. 293



Electric Medium Screw

Fig. 274



Fig. 735

Fig.	Each	Diameter Overall Inches	Opening In Light Inches	Weight Per Dozen Pounds	For Lights Figs.
274	\$1.50	41/2	4	4	02-11 and 44, 6 inch size
287	· 1.00	41/2	4	3	02 and 44, 6 inch size
293	1.50	41/2	4	4	02-11 and 44, 6 inch size
735	2.25	41/2	4	41/2	02

NOTES

Oil burners and wicks, see Figs. 246 and 302.

D. C. Electric sockets for Figs. 291 and 293, see Fig. 355.

D. C. Electric sockets for Figs. 733, 735 and 736, see Fig. 276.

D. C. Electric sockets and holders for Figs. 733, 735 and 736, see Fig. 458. Medium screw sockets for Figs. 274, 292 and 588, see Fig. 222.



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

Swivel Type



Oil

Fig. 282



Single Electric

Fig. 288



Double Electric

2 Wire

Fig. 289

Fig. 288

Each

\$2.25

2.25



Fig. 1082

Size	Diameter Overall
No.	Inches
1	43/4
2	53/4

F

ig. 282 Each \$1.50 2.25

Fig. 289 Each \$3.75

Fig. 1082 Each \$4.00 4.00

Above are for the following lights.

	SIDE	LIGHTS		HEAD HTS	STERN	LIGHTS	ANCHO	R LIGHTS		KDOWN IGHTS
Fount No.	Light Fig.	Light Size								
1	21	9-10	982	0-1	985	0-1	23	22-221/2	84	0-1
2	21	11	982	2	985	2	23	23	84	2
1	30	0-1	983	0-1	986	0-1	32	0-1	129	22-221/2
2	. 30	2	983	2	986	2	32	2	129	23
1	1155	0-1	1156	0-1	1157	0-1	1158	0-1	1159	0-1
2	1155	2-3	1156	2-3	1157	2-3	1158	2-3	1159	2-3
1	Also used in	Ti- 44 16	1 inch aires	Dies 107	and 400 No	1				

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

Spare Terminal Tubes for above adapters, \$.50 each.

Mounting Brackets

FOR NAVIGATION LIGHTS GALVANIZED SHEET IRON AND BRASS



No.	Each	Each	Inches	Inches
1	\$.50	\$.75	11/2	47/8
2	.75		2	63/8
	1-For mo		side a	nd bow
lights,	Classes 1, 2	and 3.		
	2-For large	er side li	ghts, siz	es 0, 1,
9 and	10.			

Mounting Brackets

GALVANIZED SHEET IRON AND BRASS

100000	Industrial Philadel	09733
1000	2004390000	100,000
1000	15 7 10 - 10 - 10 - 10	DESCRIPTION
0	- PERHO	10
10/4/2005	117713346	100000

Galv. Each	Brass Each	Height Inches	Inside Width Inches
\$.40	\$.50	11/4	11/4

Fig. 25

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

Mounting Brackets

FOR NAVIGATION LIGHTS GALVANIZED CAST IRON

Each



Fig. 135

\$1.50	71/2	53/8	. 2	1/2	
For large and 11.	side	lights,	sizes	2,	3

Height Overall Inches

Width Overall Inches

Width

Bracket

Color Shield

FOR COMBINATION LIGHTS DIVIDES RED AND GREEN LENSES



Used on class 1 combination lights, Fig. No. 01-010, etc. Made of heavy gauge brass or galvanized

Galvanized Each \$.75

Polished Brass Each \$1.00

Fig. 130

Marcy Hinge Burners ALL BRASS-HEAVY PATTERN

Used in all cabin lamps, large running lights, bulkhead lamps, etc.

No.	Per Dozen	Diam. Thread Inch	Wick Inch
2	\$10.80	11/4	7/8

Fig. 242

Brass Burners



No.		Per		Three		Vic	
0		\$2.4	0	7/8		1/2	
1		2.6		1/8		2/8	3
2		3.9		11/4		1/8	
No.	0	used	in	Class	1	light	S
No.	1	used	in	Class	2	and	3
			lig	hts.			

No. 2 used in larger lights.

Diam.

Fig. 246

Wicks

Flat Wicks, No. 0, 1/2 inch wide \$.36 Flat Wicks, No. 1, % inch wide Flat Wicks, No. 2, % inch wide

Fig. 302

Long Time Burner and Chimney HEAVY BRASS

Used in 10 Day Anchor Lights, Fig. 596



Fig. 245

Chimneys Per Dozen \$16.80 \$8.40



Fig. 272

Diameter Chimney Inches Height Wicks Per Dozen Chimney Inches \$1.80

Navy Lantern Globes



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

Diameter of top Diameter of bottom 21/2 inches 4 inches Height overall 61/2 inches Net weight, per dozen 9 pounds

Clear Red Green Blue Per Doz. Per Doz. Per Doz. \$18.00 \$18.00 \$18.00 Colored globes are solid colors. not painted.

Fig. 262

Marcy Lip or Dual Chimneys



No.	Per Dozen	Height Inches	Diam. Bottom Inches
1	\$7.20	41/2	15/8
1	7.20	5	13/8
1	7.20	6	15/8
2	8.40	5	2 16
2	8.40	6	2 16

Specify height of chimney when

Fig. 267

Eagle Chimney and Burner



Used on Wall Lamp Fig. 312



Fig. 248

Chimneys Per Dozen No. \$8.40

Burners Per Dozen \$6.00

Chimney Inches 2 16x71/2 Burner Thread Inches

Engineer's Lantern Globes Standard equipment in our eng



Fig. 263

neer's lantern, Fig. No. 50. Diameter of top Diameter of bottom 41/4 i Height overall 6 lb Net weight, per dozen Green Per Doz. Clear Per Doz. Red Per Doz.

\$9.00 \$9.00 \$4.80 \$9.00 Colored globes are solid colors, ne painted.

Globe Light Globes



Used in Globe Lights Fig. 4

Colored globes are red, gree colors n blue, solid painted. Frosted also be furnished.

1	200-000
7:-	. 26
	. 20

Fi	g. 264	Frosted or			F
ze	Clear Each	Colored	Top	meter— Bottom	0
6	\$2.00	\$4.50	31/8	31/8	
8	3.50	5.75	4	4	2
0	5.50	8.00	53/8	53/8	1

Mirror Reflectors

FOR SEARCHLIGHTS



Fig. 427

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

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

Metal Reflectors

FOR SEARCHLIGHTS BRASS—CHROMIUM PLATED



Fig 428

Data		
Extreme Diam.		For Searchlights
Inches	Each	Fig. and Size
61/8	\$4.80	305-306 No. 2
7	5.00	1022-1023
77/8	5.50	305-306 No. 3
Cork Gasket	s for Reflectors, \$.40 each.

Front Lens FOR SEARCHLIGHTS



Fig. 429

Diam.			For Searchights
Inches	Each	Style	Fig. and Size
6	\$1.30	Convex	305-306 No. 2
7	1.40	Convex	1022-1023
73/4	1.50	Convex	305-306 Nos. 3 & 4
83%	1.70	Flat	297-480-529- 8 inch
101%	2.00	Flat	297-480-529-10 inch
121/4	2.40	Flat	297-480-529-12 inch
141/4	3.25	Flat	297-480-529-14 inch

Watertight Hand Portables

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



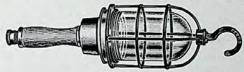
Fig. 1256

Complete Each	Spare Globes Each	Extreme Length Inches	Extreme Diameter Inches	Weight Pounds
\$6.50	\$1.00	13	41/4	23/4

Spare sockets, see fig. 472 No. 20, \$.60 each.

Watertight Hand Portables

CAST BRONZE-WOOD HANDLE MEDIUM SCREW SOCKET-THREADED GLOBE



No.	Complete Each	Spare Globes Each	Wattage	Overall Length Inches	Length Globe Inches
1	\$6.50	\$.75	25	131/2	4
2	6.75	1.00	60	151/2	6

Hand Portable

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



Fig. 1181

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

Each	Overall Length Inches	Length Handle Inches	Weight Ounces
\$2.50	8 .	4	7

Dashboard Lamp

BRASS-NICKEL PLATED DOUBLE CONTACT SOCKET-WITH SWITCH



Fig. 184

Each	Height Overall Inches	Size Base Inches	Weight Ounces
\$1.00	2 5 18	11/8 x 11/2	11/2

\$1.20



Blue

\$1.7

Fresnel Ball Globes

11/2 INCH DIAMETER

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



11/2 in. Outside diameter 1% in. Height overall Diameter of opening 1% oz. Net weight, each Blue Green Clear Each Each Each

\$1.20

\$1.20 2½ INCH DIAMETER

\$.75

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



Outside of Height of Diameter	verall of opening of thread	2½ ir 25⁄5 ir 1½ ir 2 ir 6 ozs		
Clear	Ruby	Green	Blue	
Each	Each	Each	Each	
\$1.10	\$1.50	\$1.50	\$1.50	

3 INCH DIAMETER

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



Outside diameter	
Height overall	3 in.
	1 1/2 in.
Diameter of thread	2 in.
Net weight, each	7 oz.
Clear Ruby Green	Blue
Each Each Each	Each
\$1.10 \$1.50 \$1.50	\$1.50

3 INCH DIAMETER

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



Outside diameter Height overall 3% in. 2¼ in. Diameter of opening Diameter of thread 2¾ in. Net weight, each 10 ozs. Clear Ruby Green Each Blue Each \$1.25 \$2.00 \$2.00

4¼ INCH DIAMETER



** 4044	till caucu b	ase, as ill	ustrateu.
Outside	diameter		41/4 in.
Height	overall		3% in.
Diamete	r of openin	ng	21 in.
Diamete	r of thread	i	3 in.
Net wei	ght, each		10 ozs.
Clear	Ruby	Green	Blue
Each	Each	Each	Each
\$1.50	\$2.25	\$2.25	\$2.25
4	W2.23	Ψ£.23	44.4

With threaded base as illustrated

3½ INCH DIAMETER



Fig. 106

stern li	threade ghts, Fi	d base	for ma	st and
Outside Height Diamet Diamet	diamete	er ening read		3½ in. 5 in. 2¾ in. 3½ in. 1¼ lbs.
Clear Each \$1.75	Ruby Each \$3.00	Green Each \$3.00	Blue Each \$3.00	Amber Each

Special Mast Light Globe

2% INCH DIAMETER



With threaded base as illustrated fo mast lights Figs. 488-489. Outside diameter 2¾ in 5½ in Height overall Diameter of opening Diameter of Thread 1% in 21/2 in Net Weight Each 13 oz

Clear Fig. 77 \$1.15

Ruby Green Each \$1.75 \$1.75

Holophane Dome Glasses





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

Trade Size Inches	Fig. 257 Each	Fig. 258 Each	Diam. Overall Inches	Fig. 257 Depth Inches	Fig. 258 Depth Inches
3	\$.80		27/8	5/8	
4	1.00	\$1.00	4	3/8	13/4
5	1.25	10000	5	11/2	
6	2.00	3.75	6	13/8	23/4

Frosted Dome Glasses SHALLOW



Fig. 132 For Dome Lights Figs. 296-460-753-754. Trade Diam. Overall Inches Size Inches Depth Inches Each 5/8 27/8 \$.90 1.00 1.25

Ribbed Opal Dome Glasses

2.00

2.50



Fig. 133 For Dome Lights, Fig. 385. Each

73/4

Outside Diam. Inches Extreme Depth Inches 41/4 53/8 \$1.75

Opal Globe WITH FLANGE



F	ig.	31
\$	Ea . 75	

Diameter

Overall Inches

23/4

Extreme Depth Inches



SIZE RECEPTACLES AND PLUGS YACHT

WATERTIGHT — CAST BRONZE BOXES — VOLTAGE 6 TO 125

SMALL AND COMPACT AS PRACTICABLE FOR INSTALLATION WHERE SPACE IS LIMITED

FLUSH TYPE WITHOUT BOX 5 AMP.—2 WIRE



Complete With Plug Each	Plug Only Each	Diam. Plate Inches	Depth Inches
\$5.60	\$2.25	21/4	3/4

DOUBLE

1	With P	Complete With Plugs Each		
	\$11.	\$2.50		
	Length Inches	Width Inches	Deprb Inches	
	31/4	21/4	15%	

Fig. 972

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



Complete With Plug Each		Plug Only Each
\$6.60		\$2.25
Diam. Plate Inches	Diam. Box Inches	Depth Box Inches
21/4	11/2	11/8

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

HEAVY DUTY TYPE-10 AMP.-2 WIRE



			Plug Only Each	
	\$10.9	0	\$2.50	
Li	ength	Width Inches	Depth Inches	
	31/4	21/4	13/8	

Fig. 973

HEAVY DUTY TYPE-10 AMP.-2 WIRE





Fig. 970 Complete Each \$8.00 \$7.50

Fig. 971 Surface Type Diam. Diam. Box Fig. 971 Inches Plate Inches 23/4 31/2

\$2.50 Figs. 970 and 971 can be supplied for 3 wire circuit, add \$7.00 each.

3 wire plugs only, \$3.00 each.

Watertight Push Buttons CAST BRONZE



Fig. 978

With nickel silver platinum consprings, tacts, rubber gaskets and pig skin cap over button. With screws.

Polished Chromium Diam. Bronze Plated Base Each Each Inches \$5.00 25/8 \$4.00

Watertight Snap Switch

FLUSH TYPE OR SURFACE TYPE-10 AMP. 2 WIRE



Ratchet under knob to prevent turning in wrong direction.

Plate Box Box Inches Inches Inches Flush Type 11/2 31/2 21/2 Surface Type 25/8 11/2

Diam. Diam. Depth

Fig. 974 Single Pole Switch

Double Pole Switch

Flush Type \$8.00 \$8.40

Surface Type \$6.50

Watertight Push Buttons

CAST BRONZE



Tapped one way for 1/2 inch conduit.

Each	Height Inches
\$4.40	13/4
Width Inches 2 5	Weigh Pounds



Watertight Connection

Deck Socket

All Metal Plug





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

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

	Polished Brass Each	Chromium Plated Each	Dimensions Inches
Socket Only	\$1.25	\$2.00	11/2x13/8
Plug Only	\$1.25	2.00	11/2×1

Spare electric sockets only, see fig. 747.

Watertight Connection

BRASS-DOUBLE CONTACT



Fig. 477

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

Polished	
Brass	
Each	
\$2.40	

Chromium Plated Each \$3.25

Composition Interiors Only Per Set \$.90

Size Inches 11/2×11/4

Watertight Cable Outlet

CAST BRONZE-FOR % IN. CABLE



Fig. 424

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

Polished	Chromium	Extreme	
Brass	Plated	Diamete	
Each	Each	Inches	
\$.75	\$1.50	11/4	

Medium Screw Sockets

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



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

No.	Each	Size Thread Inches	Height Inches	Extreme Diameter Inches	Weight Dozen Pound
1	\$.40	1/8	17/8	13/8	1
2	.40	3/8	17/8	13/8	1

Medium Screw Socket

PHENOLIC-NAVY DRAWING 9-S-4836-L



Fig. 565

Each \$.50	Height Inches	Diameter Overall Inches	Mounting Slots Inches	C to C of Slots Inches	Weight Dozen Pounds
\$.50	13/8	21/4	32	1/8	1/2

Medium Screw Sockets

PORCELAIN-250 VOLTS-660 WATTS



Fig. 222

	Com- plete	Rings	Gaskets Only	Height	Size Base	of
No.	Each	Each	Each	Inches	Inches	In
1	\$.50	\$.15	\$.08	15/8	2 x11/4	
2	.75	.15	08	15%	13/4×11/4	

No. 1 size is standard.

No. 2 size has special small size base for Figs. 4 and 489 mast lights.

Mogul 3 Wire Socket

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



For use with double filament bulb Fig. 532.

Each \$1.90	Height Inches 2 3 16	Outside Diam. Inches 21/8	of Mounting Holes Inches	Weight Ounces 6

With white metal mounting cap tapped 34 inch I. P. S. add \$.25 each.

Socket Supports

BRASS-% INCH I. P. S. THREAD



Fig. 330

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

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

No. 2 for Lights Size No. 3.

No.	Each	Height Inches	Size Base Inches	of Holes Inches	Weight Ounces
1	\$.75	1	7/8×23/4	2 1 6	11/2
2	1.00	21/4	7/8×23/4	2 1 6	3

6 Light Candelabra Unit

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

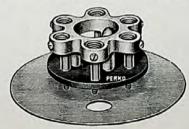


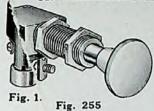
Fig. 845

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

Each	Height Inches	Diam. Top Inches	Weight
\$4.50	- 17/a	3	1

Momentary Starter Switch

OR DASHBOARD HORN BUTTON



2 point 2 terminal spring action switch with chromium plated button

Neck for % in. wood. % in. hole.

Each\$1.00

PHEN gnition Lock Switch



PHENOLIC-NAVY DR.

BRASS

2 terminal lock switch with two keys.

Neck for 1 inch wood, % inch hole.

Each\$1.10



Each \$.65

Size Base Inches 1x11/2

a .ght Inches 11/8 Weight

Dozen

16

Fig. 76

Bayonet Sockets
PHENOLIC—SINGLE AND DOUBLE CONTACT.



Fig. 472

\$.60 20 21 Height

Type Double contact .60 Single contact Dozen

Inches 13/8

9

Bayonet Double Contact Socket BRASS CASE-TAPPED 1/2 INCH I. P. S.



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

Fig. 276

Socket Support

BRASS-FOR FIG. 276 SOCKET



Complete with screws for installing. Each

Threaded % inch I. P. S.

Weight

Fig. 277

\$.45

5/8×11/2



Watertight Connection

DOUBLE CONTACT

Deck Socket

All Metal Plug





DECK SOCKET. All brass, double cord RUBBER with threaded cap and chain as illustrat Weight Dozen Ounces

Diam. Inches PLUG. All brass, double contact, t' for fastening to deck socket, Fig. 49 with rubber gasket inside to preve down cable.

· morac	to provi	
		CtoC
Polished	Chr	of Holes
Brass	1	Inches
Each	/2	1 16
¢1 25	, -	

Socket Only Plug Only

\$1.25 Spare electric sockets ce Contact Adapter



ALL BRASS For adapting oil lights to combina-tion oil and electric. Just remove burner from fount, place collar around threaded portion of burner and re-place assembly in oil fount. Consists of double contact bayonet socket, collar and hollow nut.

Per Set, Complete\$1.10

Bayonet Double Contact Adapter BRASS AND HARD RUBBER



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

Each	Length	Diam. Thread Inches	Weight Dozen Ounces
\$.55	11/4	7/8	8

Fig. 355

Electric Adapters



No. 670				bayonet	
680				bayonet	
830	Medium	screw	to	foreign l	navonet

double contact, each ..

Fig. 405

Brass Dagger Connectors

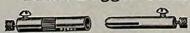


Fig. 283

These are furnished with Fig. 603 Pole Lights, and are very handy "pull apart" connectors for many other uses. Dimensions 11/2 x 1 inches.

Each\$.25

Double Contact Connectors HARD RUBBER-BRASS CONTACTS



.65

10 15x21/2

Fig. 749

Double Contact Plug and Socket



Plug and socket insulation is har

All metal parts are brass.



Per Set	Size Flange In.	Outside Diam. Socket In.	Length Socket In.	Wa De
75	11/8×11/2	116	13/8	14

Bayonet Double Contact Plugs

HARD RUBBER OR ALL METAL



Hard Rubber Fig. 746



Fig. 383

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

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

cable.			Diam.	Diam.	Weig
Fig. 383 Each	Fig. 746 Each	Length Inches	Fig. 383 Inches	Fig. 746 Inches	Doze
\$.40	\$.25	11/2	3/4	15	8

Brass Cable Straps

FOR CABLE, TUBING, CONTROL WIRE, ETC.



67			The state of the s	
	Inside Diam. Inches	Per 100	Length Inches	Wie
	1/8	\$1.25	11/8	1
	3	1.40	11/4	1
•	1/4	1.50	1 16	1
'	3.6	1.50	1 5	ļ
	3/2	1.60	13/8	,

1.75

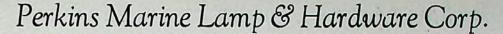
1.90 2.25

FOR LEAD COVERED CABLE



Per 100	Size Inside Inches	Le
2.50	72×16	

Widtl 1 10



Lighting Switches

FOR ALL VOLTAGES FROM 6 TO 120

TOGGLE TYPE BRASS-BAKELITE INSULATION



With 2 lock nuts and 6" wire leads.

Length Neck Inches Each Inches \$.50 lock Maximum nuts $\frac{5}{16}$ ".

With watertight cap and

chain, add \$.75 each. Chromium plated, add \$.20

TOGGLE TYPE WITH FACE PLATE BRASS-BAKELITE INSULATION



Polished Brass Each \$.65

Chromium Plated Each

\$ 80

Size Face Plate Inches

1x17/8

Fig. 718

Push and Pull Switch

HEAVY DUTY-WITH IVORY KNOB

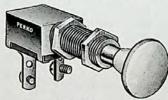


Fig. 94

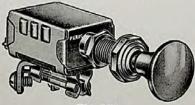
Heavy duty 2 point 2 terminal with ivory tenite knob.

% inch Neck for % in wood, % inch hole.

Each \$.75

Push and Pull Switch

WITH FUSE HOLDER-ALL BRASS



With chromium plated knob.

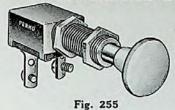
Neck for % in. wood, % in. hole.

Each\$1.50

Fig. 254

Momentary Starter Switch

OR DASHBOARD HORN BUTTON



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

Neck for % in. wood, % in. hole.

Each\$1.00

Ignition Lock Switch

Fig. 316

BRASS

2 terminal lock switch with two keys.

Neck for 1 inch wood, % inch hole.

Each \$1.10

Knife or Battery Switches FIBRE BASE—SINGLE POLE



Single Double Throw Each

Size Base

\$.65 216x11/4

Fig. 70

FLAT TYPE

\$.50



Single Throw Each

Size Base Inches Double Throw

\$.50 \$.65 21 x11/8

Fig. 74

Fuse Panel

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



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

No.	Each	Length Inches	Width	Thickness Inches	Fuse Inches
1	\$.50	2/4	16.5	/8	1/4
2	.65	214	13/8	/8 /8	11/4

LIFE BOAT EQUIPMENT

Life Preserver Light

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

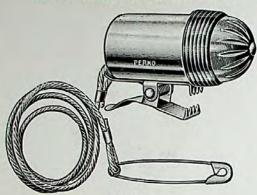


Fig. 10

Case is solid zinc, red lens is plastic and practically

Uses Mazda No. 131 bulb and operates on single type D 11/4 inch flashlight cell giving more than 12 hours of continuous light.

Supplied complete except battery.

Each	Length	Weight With Battery
	Inches	Ounces
\$1.10	35/8	7

Electric Water Light

APPROVED-NAVY SPEC. 17-L-16 COMPLETE WITH BRACKET-NO BATTERY



Automatically lights as it hits the water. Floats beside raft or buoy, 22 hours of continuous light.

Operates on 4 type D 11/4 inch flashlight cells. Uses Mazda No. 14 bulb.

Complete with bulb and bracket, less battery.

Each	Length Inches	Diameter Weight Overall Less Battery Inches Pounds	
\$7.00	23	3 3	

Calcium Water Light SELF LIGHTING—COPPER CASE



Lights automatically and immedi ately on striking the water, gives 250 candle power white light and burn for 45 minutes.

Each	Size Overall Inches	Weight
\$8.00	5x8	3

Fig. 843

Hand Flares

MOISTURE PROOF-APPROVED

Will burn for not less than 2 minutes givin a brilliant flare of not less than 500 candle

	No.	Color	Per Dozen
	1	Red	\$4.75
(TONG)	2	Blue	6.00
	3	White	6.00
ig. 281	4	Green	6.00
Control of the Control of the Control			

Watertight Distress Outfits

APPROVED-COPPER CASE-BRASS CAP





Consists of twelve red signal: each capable of burning two mir utes with an intense brilliancy clearly discernible for over fiv miles at sea.

Per	outfit,	complet	e\$	10.0
Cans	Only-	-Each		7.0

Case is 101/2 inches high.

Midget Distress Outfit

12 RED SIGNALS-FOR PLEASURE CRAFT



For use in emergency on board me tor and sail boats. Consists of 1 moisture proof red flares packed i moisture proof container.

Each		\$2.5
~~~~	***************************************	The state of the s

#### LIFE BOAT EQUIPMENT

# Ditty Bags COMPLETE



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

Complete, Each .....\$4.00

One box matches sewed in waterproof canvas, add \$.55.

# Steel Boat Bailers

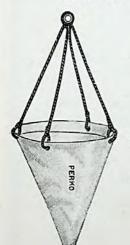
GAVANIZED-RIVETED HANDLE



Control of the Contro
Fig. 180

Each \$1.40 Diameter Weight Pounds

#### Canvas Sea Anchors



Diam. Inches	Each	Length Inches
24	\$4.50	36
30	6.50	45
36	36.00	72

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

Fig. 517

# Storm Oil Container

FOR ATTACHMENT TO SEA ANCHORS GALVANIZED SHEET STEEL



Fig. 179

Complete with attaching ring, two brass pet cocks and filling

Capacity, 1 gallon.

Extreme Length Diam. Weight Inches Inches Pounds Each 11/2 \$3.50 15

#### Bread Breakers

GALVANIZED



Fig. 155

Heavy galvanized sheet iron, double seamed edges, well soldered, cast bronze cover and ring, thick rubber gasket, water-tight, two folding handles. Every breaker fully tested before leaving factory.

Diameter cover, 5 inches

Capacity Lbs.	Each	Size Inches	Weight Lbs.
25	\$11.25	12x12x18	13
40	12.00	15x15x21	15
50	12.50	15x15x24	18
60	13.00	15x15x30	19
80	14.50	24x24x24	32
100	15.50	24x24x30	40

#### Bread Breaker Caps



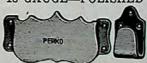
Fig. 72

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

	Extra Gasketa	Outside Diam. Cover	Inside Diam. Opening	Weight
Per Set	Each	Inches	Inches	Pounds
\$4.25	\$ .30	53/4	43/4	2

#### Brass Axe Brackets

18 GAUGE-POLISHED



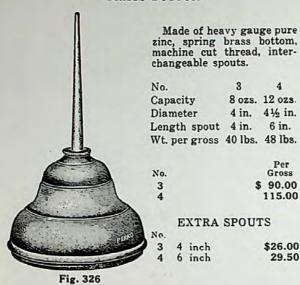
A set consists of one blade socket and one handle bracket as illustrated.

Complete Sets Per Dozen	Blade Sockets Only Per Dozen	Handle Brackets Only Per Dozen	For Blade Width Inches	Weight Per Set Ounces
\$13.75	\$9.50	\$4.25	6	8



#### "Perko" Zinc Marine Oilers

BRASS BOTTOM



#### Gasoline Funnels

GALVANIZED-WITH STRAINER



Fig. 81

Made of galvanized sheet steel with No. 80 mesh bronze strainer.

No.	Each	Diam. Top Inches	Height Inches	Capacity Gallons
1	\$1.00	8	81/2	1/2

#### Pitch Payers



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

Each	Diam. Inches	Length Body Inches	Length Overall Inches	Weight Lbs.
\$5.00	7	13	20	11/2

Sounding Lead Lines

DEEP SEA OR YACHT MARKING
U. S. C. G. AND INTERNATIONAL
REGULATIONS

Deep Sea lines made of braided cotto and marked with bunting and leather pe

V. S. C. G. and international regulations
Yacht lines made of hemp or \( \frac{1}{3} \) braide
cotton and marked every fathom wit

191119991 [2]	knots in	cotton	line	attached.	
					Diamete
MINISTER IN		Deep			Deep
	Length	Sea		Yacht	Sea Lin
000	Fathoms	Each		Each	Inche
	10	\$6.85		\$5.50	1/4
U	15	8.50		7.00	1/4
F" FOR	20	11.50		8.50	1/4
Fig. 597	25	13.00		10.00	1/4
	30	16.25		11.50	1/4
	120	53.00			16
	150	69.00			16
					1.1

Prices do not include lead, specify type markings.

#### Sounding Leads



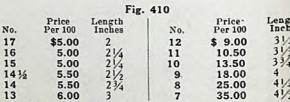
Fig. 940 All weights from 2 to 16 pounds each inclusive ca ried in stock.

Per Pound \$ .23

Larger sizes furnished to order.

#### Sail Makers Needles

FORGED CAST STEEL-POLISHED LONG SQUARE



Packed 25 needles per package-only furnished full packages.

#### Sail Makers Palms

HIDE MOUNTED



	Fig. 411		200.00
No. 2		Right Hand Per Doz. \$ 7.50	Han Per D \$ 8.
5		Ψ 1.55	100
5	Seaming—Half Hide— Adjustable Buckle	10.00	10.
6	Roping-Half Hide	11.00	11.
7	Seaming—Heavy Hide— Adjustable Buckle	25.00	25.
10	Seaming—U. S. Navy Type— Full Hide	26.00	26.
11	Roping—U. S. Navy Type—	28 00	28.

28.00

Full Hide ....

Weight Per Dozen Pounds 13



#### Paint Scraper Set

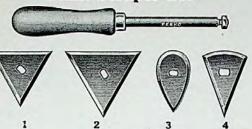


Fig. 1015

Per Set-\$1.75

Set consists of handle with 4 blades illustrated, and nut to change and attach blades.

Packed, 1 set to a box.

No. 1 Blade, Triangular—2%x2% inches.
No. 2 Blade, Triangular—3x3 inches.
No. 3 Blade, Oval—2½x1¼ inches.
No. 4 Blade, Curved Top, Triangle—2%x1¾ inches.
Length Handle—8½ inches.

#### Paint Scrapers



T	riang	gular	No.
Figs.	625	and	626

Fig 625 626

Oval Fig. 918

Complete Per Doz.	Blades Only Per Doz.	Size Blade Inches	Length Inches	Weight Per Doz. in Pounds
\$ 7.80	\$3.50	21/2×21/2	6	21/2
12.60	4.50	3 x3	91/2	5
7.80	4.00	21/2×11/2	6	23/4

# Ship Scrapers TEMPERED STEEL BLADES



Fig. 920

Each	Blades Only Each	Handles Only Each	Size Blade Inches	Length Inches	
\$2.10	\$ .85	\$1.25	41/2×1/8	17	

#### Genuine File Scrapers FROM FLAT MILL FILES



Fig. 1174

Made from 14 inch and 16 inch used files, no selection

	Carefully II	cat treateu.	Approx.	Approx.
Per Dozen \$ 9.00	Approx. Width Inches	Approx. Thickness Inches	Width Blade Inches 13/4	Weight Per Dozen Pounds 17

# Double End Scrapers FINE GRADE TOOL STEEL

HEAT TREATED

Fig. 1175 Thick-Width Length Inches ness Per Dozen Inches Inches \$6.00 15 13/4

# Marlin Spikes

POLISHED STEEL FOR WIRE ROPE

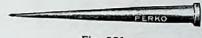


	Fig. 921	
Length Inches	Per Dozen	Approx. Weight Per Dozen in Pounds
8	\$24.00	6
10	26.00	10
12	28.00	123/4
14	30.00	161/2
16	36.00	25
18	40.00	30
	FOR MANILA ROPE	

	Fig. 922	
Length Inches	Per Dozen	Approx. Weight Per Dozen in Pounds
6	\$ 9.50	53/4
8	11.00	71/2
10	12.50	12
12	14.50	17
14	19.00	231/2
16	23.50	27
18	28.00	341/8

#### Hand Fids MAPLE



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

Per	Sine
Dozen	Inches
\$ 7.50	12x13/4
8.75	14x13/4
10.00	16x2
11.25	18x2
18.00	20x21/4
28.00	24x3
	Dozen \$ 7.50 8.75 10.00 11.25 18.00

# Caulking Irons

MALLEABLE IRON



Fig. 311

Size No.	Per Dozen \$8.40	Thickness inches	Length Inches	Width Blade Inches	Weight Per Doz. in Lbs.
0	8.40	14	55/8	21/3	1/2
1	8.75	1/8	51/8	21/4	5/4

"Perko" "Beam" Searchlights
WITH CHROMIUM PLATED REFLECTOR
6 OR 12 VOLTS—50 CANDLEPOWER
BAYONET DOUBLE CONTACT SOCKET
ENCASED WIRING—FOCUSING DEVICE
WATERTIGHT GLANDS AT CABLE
AND CONTROL ROD ENTRANCES
RANGE—ABOUT ½ MILE
EN Night progress sea rotes below For higher power see notes below.

#### Sunbeam

WITH PILOT HOUSE CONTROL-NO SWITCH



Fig. 306

No.	Polished Brass Each	Chromium Plated Each	Diam. Inches	Diam. Reflector Inches	Height Above Deck Inches	Diam. Base Inches
2	\$43.50	\$51.50	6	61/8	11	31/2
3	54.50	65.00	8	77/8	14	31/2 51/2
4	70.00	80.50	8	7	14	51/2
				7 8	0.000	5

Length control rod below base, 10 inches.

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

#### Sunbeam

DECK TYPE-WITH SWITCH



Fig. 305

No.	Polished Brass Each	Chromium Plated Each	Diam. Inches	Diam. Reflector Inches	Height Above Deck Inches	Diam. Base Inches
2	\$30.00	\$36.00	6	61/8	11	31/2
3	37:00	45.00	8	17/8	14	51/3
4	45.00	53.00	8	7	14	51/2
No	4 has man	gin mirror	reflect	or and 1	100 C. F	bulb.

"Pathfinder" Searchlights

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





Deck Type with Switch

Pilot House Type

Fig. 1022 1023	Polished Brass Each \$26.00 20.00	Chromium Plated Each \$33.50 26.00	Lens	Diam. Base Inches 61/4 61/4	Head Diam. Inches 71/4 71/4	Heig Abor Dec 12 13!
----------------------	-----------------------------------------------	------------------------------------------------	------	-----------------------------------------	-----------------------------------------	----------------------------------

Fig. 1022 length control rod below base 81/2 inches.

With Battery Attachment and Switch Swivel Head





Fig. 1025

Fig. 1027

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

Diam. Width of Attachmes Head Eveready Burgess Inches Inches Inches Polished Chromium Brass Each Plated Each Lens Inches \$20.00 \$26.00 61/2 71/4

NOTES

All lights on this page with 6 or 12 volt 100 C. P. bulbs, add \$1.50 each. With 32 volt 50 C. P. bulb, add \$1.00 each, 32 volt 100 C. P. bulb, add \$2.00 each. Spare lenses, reflectors, bulbs, etc., see pages 33 and 37.



#### "Perko" High Power Searchlights

WITH MIRROR REFLECTOR-MEDIUM SCREW SOCKET VOLTAGE-6, 12, 32, AND 120 VOLTS

PACKING GLANDS AT CABLE AND CONTROL ROD ENTRANCES

BODIES-are constructed of heavy wrought brass; stands, yokes, and control mechanism are all cast bronze. REFLECTORS—a glass mirror reflector, which projects a highly concentrated beam of light a great distance. FOCUSING DEVICE—of patented design, containing no wires to twist or break; very easy to control. PILOT HOUSE CONTROLS—are of the wheel or lever type, both having their distinct advantages.

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

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



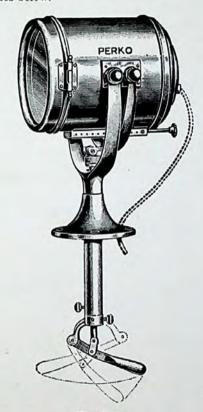
12

140.00

175.00

160.00

195.00



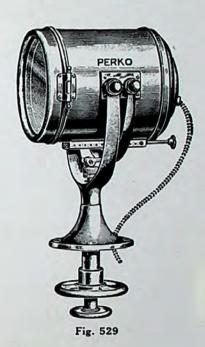


Fig. 297

Size Inches	Diameter Reflector Inches	Range	Beam Candle Power	Length of Body Inches	Clearance of Glass in Door Inches	Helght Above Deck Inches	Weight Pilot House Type Pounds	Diameter of Base Inches
8	8	up to 3/4 mile	350,000	123/4	73/4	19	30	67/8
10	10	up to I mile	590,000	143/4	91/2	21	34	67/8
12	12	up to 11/2 miles	700,000	17	113/4	24	41	67/8
14	14	up to 2 miles	850,000	19	131/2	26	56	81/8
	-Fig	. 480	F	ig. 297			-Fig. 529-	
Size	Polished Brass	Chromium Plated	Polished Brass	Chron	nium .ted	Polished Brass	Chro	mium lated
Inches	Each	Each	Each		ich	Each		Sach
8	\$100.00	\$115.00	\$115.00	\$135	5.00	\$127.00	\$14	7.00
10	115.00	130.00	130.00	150	0.00	142.00	16	2.00

With 32 volt 400 watt bulb, add \$2.50 each.

155.00

190.00

With 120 volt 400 or 500 watt bulb, add \$1.00 each.
With 120 volt 1000 watt bulb (special construction) price on application.

180.00

215.00

167.00

205.00

192.00

230.00

Spare bulbs, reflectors, lenses etc. See pages 33 and 37.

Special length of pilot house control to order, price on application.



#### "Star" Oil Compasses

WITH DIAMOND POLISHED JEWEL BEARING



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

A guaranteed trouble and bubble proof compass.

Trade Size Inches	Exact Diam. Card Inches	With Box Each	Size of Box Inches	Diam. Trunions Inches
2	2 16	\$11.00	45/8	41/4
21/2	2 3	12.50	53/8	43/4
3	3 16	17.00	61/4	51/4
4	4	22.00	71/4	63/8
5	43/4	28.50	81/2	71/8
6	51/4	36.00	91/2	81/8

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

# "Ritchie" Spirit Compasses

REGULAR FLAT TOP



Marked to 360 degrees with cardinal and intercardinal

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

Trade Size Inches	Exact Diam. Card Inches	Regular Type Each	Under- lighted Type Each	With Mahogany Box Add Each	Diam. Gimbal Ring Inches
4	4	\$33.00	\$51.00	\$ 8.00	6
5	41/2	36.00	55.00	9.00	67/8
6	51/4	41.00	60.00	10.00	83/8

Price does not include box.

# "Star" Semi-Dome Oil Compasse

UNDERLIGHTED - MAGNIFYING



	Fig. 8	823	
Trade Size Inches	With Box Each	Diam. Card Inches	Diam. Trunion Inches
4	\$34.00	4	63/8
5	41.00	43/4	71/8
6	48.00	51/4	81/8

# "Ritchie" Globe Spirit Compass

UNDERLIGHTED



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

Trade Size Inches	Without Box Each	Diameter Gimbal Ring Inches
5	\$ 95.00	67/8 83/8
6	115.00	83/8

#### "Star" Pathfinder Compasses

WITH MAGNETIC COMPENSATOR INDIRECT ILLUMINATION MAGNIFIED DIAL



Bulkhead Fig.	Maria Carlo
Each	Diam. Face

\$12.00

Fig. 33



Shelf Type Fig. 34

Inches 25/8



#### Deluxe Dome Binnacle

WROUGHT BRASS—TWO PIECE WITH SLIDING DOORS

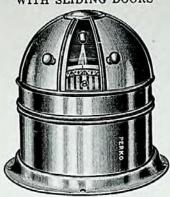


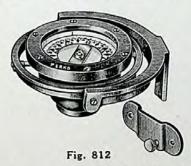
Fig. 300

Modern in every detail. Has two sliding doors and hooded electric light which illuminates the proper portion of the compass only. Entire head is removable for day running, removing of compass, etc.

No. 1 2	For Size Compass Inches 4	Height Overall Inches 71/2 83/4	Diam. Base Inches 9	Compass Supports Inches 6 73/8	Less Compass Pounds 21/2 31/2
No.	Polishe Brass Each		mium ted	With Oil Polished Brass Each	Chromium Plated Each
1 2	\$52.50 58.00			\$72.50 84.50	\$82.00 95.50

# Improved Compass Bracket

CAST BRONZE-DOUBLE SWING



The bracket is cast bronze in black finish and is attached to trunions on gimbal ring of compass.

Compass furnished is our Fig. 487 oil compass with jewel bearing.

Size Compass Inches	Without Compass Each	Complete with Compass Each	Wall Plate Only Each
2	\$2.75	\$13.00	\$ .50
	3.00	14.75	.50
21/2	3.50	19.50	.50
4	4.00	25.25	.50
5	4.50	32.00	.50

#### Cruiser Binnacle

WROUGHT BRASS-TWO PIECE



Fig. 401

Removable head allows easy access to compass. Furnished complete with electric fixture and lamp for illuminating compass at night. Head is held fast to base by internal catch.

For Size Compass Inches	Height Overall Inches	Inside Diam. Inches	Diam. Base Inches	Between Compass Supports Inches	Weight Less Compass Pounds	
3 4 5	6½ 7½ 8¾	53/8 61/2 73/8	63/4	47/8 6 73/8	11/3 23/4	
For Size Compass Inches	Polished Brass Each	t Compass Chromi Plated Each	um i	With Oil Polished Brass Each	Compass— Chromium Plated Each	
3 4 5	\$23.50 26.00 29.00	\$27.5 31.0 35.0	0	\$38.00 44.75 53.50	\$42.00 49.75 59.50	

# Skylight Binnacle

BRASS



Fie 534

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

No. 1 2	For Size Compass Inches 4 5	Height Overall Inches 11 113/4	Inside Diam. Inches 6½ 7%	Diam. Base Inches 10 10	Compass Supports Inches 6 73/8	
No.	Polished Brass Each	t Compass— Chromium Plated Each	P	-With Oil olished Brass Each	Compass— Chromium Plated Each	
1 2	\$48.00 51.50	\$58.00 62.00	4	78.00	\$78.00 88.50	

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



#### Yacht Log Books

100 PAGES-NEAT PRINTING



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

No. 1 Binding: Imitation leather, pebble finish, starboard green color, gold letters, without gold border. Each \$2.50

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

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

#### Parallel Rules

NATURAL EBONY FINISH



Fig. 686

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

ength Closed	
Inches	Each
12	\$3.50
15	4.00
18	5.00

#### Electric Compass Light



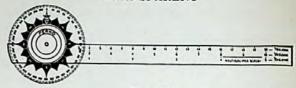
Fig. 707

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

Polished	Chromium	Height
Brass	Plated	Overall
Each	Each	Inches
\$2.50	\$3.00	8

#### Improved Course Protractor

INDICATES COURSE AND REVERSE COURSE TRANSPARENT



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

Arm extended on short end to show reverse course.

A precision instrument, accurate in detail. Positions. depths, etc., are clearly visible when covered by pro-Diam. Compass Card Inches

Length

1	o se ou ou	12.20	3
Fa T	PER	KO	7 37
12	1 (	2	
- S. C.	Do	N	57

Fig. 697

Each

\$2.75

#### String Protractor

63/8

TRANSPARENT

For use where space is limited.

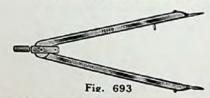
Size, 4x4 inches.

Each

\$1.00

#### Dividers

BRASS-NICKEL-PLATED



Length, 6 inches, each .....

\$2.00

#### Chart Cases



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

Diam. Inches	Length Inches	Galv. Each	Copper Each
3	36	\$5.00	\$9.50
4	36	6.25	10.75



# "Perko" Wing Pumps

DOUBLE ACTION-ALL BRONZE FOR MARINE, INDUSTRIAL AND DOMESTIC USE

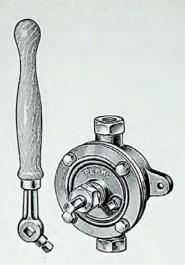


Fig. 681

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

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

#### EFFORTLESS OPERATION—HARDWOOD HANDLE

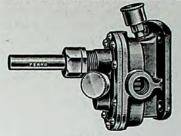
No.	Each	Size Pipe Connection Inches	Overall Diameter of Body Inches	Capacity Per Minute Gallons	Approx. Weight Each
0	\$29.00	1/2	51/8	5	111/2
1	32.00	3/4	53/4	7	14
2	37.50	1	65/8	93/4	191/2

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

### "Perko" Ford Gear Pumps

ALL BRONZE

FOR MODEL A FORD MOTOR CONVERSIONS



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

water pump.
Furnished complete as illustrated.

With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connections Inches	Diam. Shaft Inches	Weight	
Lacu	Date	Inches	THUMES	Lounds	
\$14.75	\$17.75	3/8	1/2	41/2	

#### "Perko" Star Gear Pump

FOR STAR MARINE MOTOR CONVERSIONS

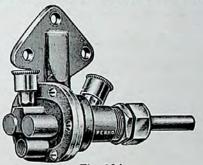


Fig. 804

Has a triangular bracket to fit the intake water manifold on the motor with water passage through the bracket.

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

With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Diameter Drive Shaft Inches	Weight Pounds
\$14.00	\$17.00	3/8	1/2	4

# "PERKO" BRONZE GEAR PUMP PARTS

Pump No.	Size Pipe Connection Inches	Cover Each	Spur Gear Each	Herringbone Gear Each	Body Each	Drive Shaft Each	Metal Pack Gland Each	Lock Nut Each	Pack Nut Each	Idle Gear Shaft Each
2	1/4	\$1.95	\$1.20	\$2.75	\$3.25	\$ .95	\$ .65	\$ .35	\$ .65	\$ .60
3		2.10	1.40	3.10	3.30	.95	.80	.45	.70	.60
4	3/8		1.75	3.50	3.90	1.10	.80	.45	.70	.90
	1/2	2.50		5.50	4.80	1.10	.80	.45	.70	.90
7	3/4	2.90	2.30			1.10	.80	.45	.70	.90
9	1	3.90	2.65	6.20	5.80	1.10	.00	-		

# 56 Perkins Marine Lamp & Hardware Corp.



# "PERKO" BRONZE GEAR TYPE PUMPS

NON CORROSIVE BRONZE THROUGHOUT WITH TOBIN BRONZE SHAFTS AND GEARS

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

#### Single Lower Drive Shaft

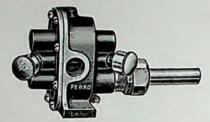


Fig. 684

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Con- nection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
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
7 9	15.00 16.50	19.50 21.00	13/4	5/8 5/8	9 91/2

# Single Upper Drive Shaft

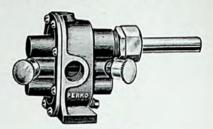


Fig. 682

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Con- nection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
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
7 9	15.00 16.50	19.50 21.00	13/4	3/8 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 more quiet in operation than spur gear pumps. Are also more efficient in power consumption.

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

#### **Double Lower Drive Shaft**

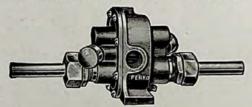


Fig. 685

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Con- nection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$11.50	\$13.75	1/4	1/2	41/2
3	12.50 13.75	15.50 17.00	3/8 1/2	3/8 5/8	634
7 9	16.50 17.50	21.00 22.50	13/4	3/8 3/8	934

#### Double Upper Drive Shaft

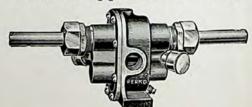
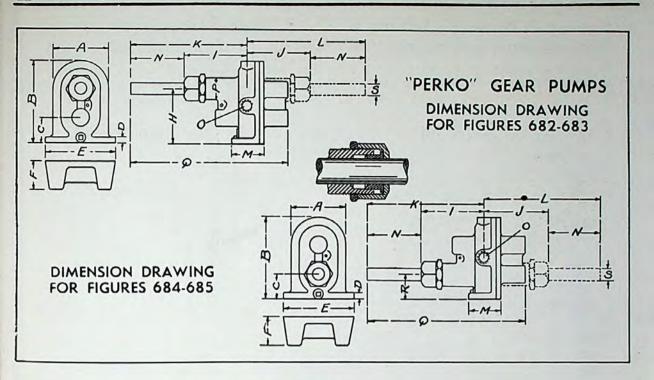


Fig. 683

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Con- nection Inches	Size Drive Shaft Inches	Approximat Weight Eac Pounds
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	63/4
7 9	16.50 17.50	21.00 22.50	1 3/4	3/8 3/8	91/2 93/4

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

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



#### DIMENSION TABLE FOR "PERKO" GEAR PUMPS

Pump No.	A	В	С	D	E	F	н	I*	J*	K*	L*	M	N	Ot	P	Q	R	S
2	23/8	31/2	1 23	36	21/8	1 32	23/8	21%	296	4156	415%	1 7 32	21/8	1/4	1	63%	11/6	1/2
3	23/4	4	17/8	1/4	31/2	1 32	25/8	21/8	21/8	53/8	53/8	$1\frac{15}{32}$	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	53%	2%	1/4	4	11/2	3%	31/6	31/6	5%	5%	11/6	21/2	3/4	11/8	75%	1%	5/8
9	31/4	53%	2%	1/4	4	1%	3%	3%	33%	51/6	51/6	15%	21/2	1	11/8	7%	1%	5/8

Dimensions in inches-Standard Pumps.

*From center line of gear. †Briggs standard pipe tap.

#### CAPACITY TABLE FOR "PERKO" GEAR PUMPS

#### 1200 REVOLUTIONS PER MINUTE

Pump No.	0 в.		20 1Ь.		40 lb.		60 lb		80 lb	
	GPM	нР	ОРМ	нР	GРM	нР	GРM	пр	GPM	нР
2	3.	1/6	2.62	1/6	2.25	1/4	1.8	1/4	1.45	1/3
3	5.	1/6	4.25	1/4	3.7	1/3	3.2	1/2	2.8	3/4
4	7.5	1/4	6.3	1/3	5.4	1/2	4.6	3/4	3.8	1
7	13.5	1/3	11.5	1/2	9.9	3/4	8.75	1	7.7	11/2
9	17.	1/2	15.5	3/4	14.1	11/4	12.7	11/4	11.2	11/2

#### 1800 REVOLUTIONS PER MINUTE

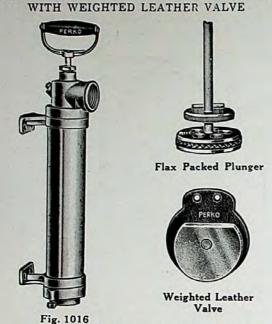
Pump No.	0	0 lb.		20 lb.		47 lb.		60 lb.		8016	
	ОРМ	нР	GPM	нР	СРМ	нР	GPM	нР	GPM	HP	
2	4.5	1/4	4.2	1/4	3.85	1/3	3.45	1/2	3.1	1/2	
3	7.5	1/3	6.75	1/2	6.1	3/4	5.6	1	5.25	1	
4	11.	1/2	10.	3/4	9.	3/4	8.2	1	7.3	11/2	
7	16.*	*1/2	15.*	1*	13.3*	*1	12.*	11/2*	10.8*	*11/2	
9	20.*	*3/4	18.75*	1*	17.7*	*11/2	16.5*	2*	15.3*	*2	

*At 1500 R.P.M.

Gallons per minute flow of clean water—63° F.—no pipe friction. Motor recommended shown by H. P. indicated. Head in feet = 2.3 x lbs. pressure.



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

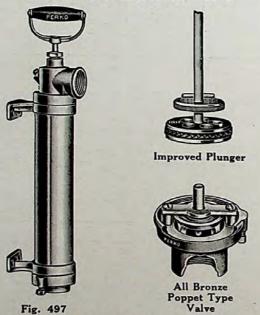


CAPACITY-13 STROKES-5 GALLONS

Each \$13.00	Extreme Length Inches 24	Diameter Cylinder Inches 23/4	Inlet Pipe Thread Inches	Outlet Pipe Thread Inches	Diameter Plunger Rod Inches
Weigh	ted leathe	r valve or	ly, each		\$ .80

# "Improved" Navy Bilge Pump

BRASS CYLINDER-CAST BRONZE PARTS WITH ALL BRONZE POPPET VALVE



CAPACITY-13 STROKES--5 GALLONS

\$13.50

# "Super" Navy Bilge Pump

FOR HOSE OR PIPE WITH WEIGHTED LEATHER VALVE



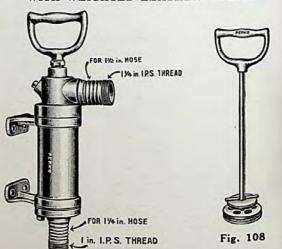
Fig. 701

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

		Inlet	Sizes-	-Outle	
Each	Length Inches	Pipe Inches	Hose Inches	Pipe Inches	Hose Inches
\$15.00	27		11/4	11/4	11/2

# "Midget" Navy Bilge Pumps

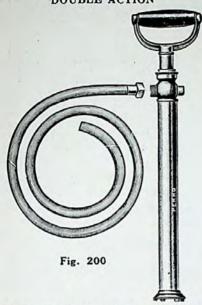
WITH WEIGHTED LEATHER VALVE



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

Each \$13.50	Length Inches	Diam. Cylinder Inches	Pipe	Hose Inches	Pipe Inches	Hose Inches
Fig. 108—	THE PROPERTY OF THE PARTY OF	23/4 Assemb	ly Only	y, Each		\$5.25

# Brass Bilge Pumps



Heavy brass seamless tubing, cast bronze fittings, treated leather packing, hollow brass ball checks, D shaped handle. Moulded rubber hose 5 feet long furnished with each pump.

Nos.	With Hose Each	Height Inches	Diam. Inches	Capacity Per Min. Gallons	Weight Pounds
1	\$6.00	175/8	11/8	6	21/4
2	7.25	20	11/2	12	31/4
4	8.75	29	11/2	161/2	4

Without hose, deduct \$ .40 each.

# Brass Bilge Pumps WITH SUCTION HOSE AND STRAINER



Fig. 202

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

Nos.	With Each Hose	Height Inches	Diam. Inches	Capacity Per Min. Gallons	Weight Pounds
5	\$ 8.25	185/8	11/8	6	3
6	10.00	21	11/2	12	4
8	12.75	30	11/2	161/2	5
Witho	ut hose, ded	uct \$ .80	each.		

#### Brass Bilge Pump

SINGLE ACTION-WITH 5 FT. RUBBER HOSE

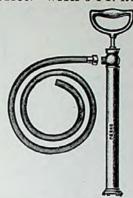


Fig. 723 CAPACITY—15 STROKES 1 GALLON

No.	With Hose Each	Without Hose Each	Diameter Inches	Extreme Length Inches	Weight Pounds
0	\$5.25	\$4.85	11/8	175/8	2

#### Electric Bilge Pumps

BRONZE

AUTOMATIC AND NON-AUTOMATIC



Non-Automatic Fig. 801

Automatic Fig. 802

Large capacity, steady flow, low amperage consumption, enclosed motor, outlet for both ½ inch pipe and 1 inch hose, brass strainer at intake.

The automatic pump has a large copper float 4% inch diameter, 2½ inches high, adjustable for operating the switch as desired.

Switch						
	801	0.1	801 No	802	Amp	
Volts	Each	Each	Each	Each	No. 1	No. 2
6 12 32 110 DC	\$17.50 19.50 21.50 24.50		\$18.50 20.50 22.50 25.50	\$25.00 27.00 29.00 31.00	6.0 3.2 1.0 .30	7.5 4.5 1.8 .32
No. 1 2		Height Overall Inches 9	80 3 4)	Weight in Pou	nds	02

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



11.75

# Galvanized Steel Bilge Pumps

WITH LEATHER PLUNGER AND VALVE WOOD ROD AND T HANDLE FUNNEL TOP



Fig. 156

Diameter, inches Price per foot Pumps shorter than 5 feet long charged as 5 feet.

Length measured overall. Crating Charge - \$2.50 net per crate regardless of quantity of pumps it contains.

#### Galvanized Steel Bilge Pumps

WITH LEATHER PLUNGER AND VALVE WOOD ROD AND STRAIGHT HANDLE STRAIGHT TOP



Diameter, inches \$ .90 Price per foot Pumps shorter than 5 feet long charged as 5 feet. Length measured overall. Crating Charge — \$2.50 aquantity of pumps it contains. - \$2.50 net per crate regardless of

#### SPARE PARTS

Plungers, see Fig. 239 T handles, see Fig. 230 Valves, see Fig. 237 Wood rods, see Fig. 231 % inch rods used in 2 inch pumps, 11/2 inch rods in

3 and 4 inch pumps.

Fig. 345

#### Brass Bilge Pump

WITH BULKHEAD BRACKETS THREADED FOR % INCH PIP

Diam.

No.	Inches	Inches	Pour
2	11/2	21	3
4	11/2	31	4
	Without		With
No.	Tail Piece Each	S	Tail Piece Each
2	\$ 9.25		\$10.25

10.75

#### Crank Case Pump

DOUBLE ACTION-ALL BRASS Capacity per minute-2 Gallons



Fig. 146

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

	Spare		Length	****	
Complete	Intake Hose	Length Overall	Intake Hose	Diam. Pump	Weigh
Each	Each	Inches	Inches	Inches	Pound
\$6.50	\$2.10	171/2	121/2	11/8	21/2

# Crank Case Pump

DOUBLE ACTION-ALL BRASS



Fig. 1029

This pump is equipped with a cast bronze intake tu for rubber hose. 12 inches of % inch hose is include

This type is especially useful for Gray motors pe mitting the oil to be drawn off through the oil dagg tube.

Complete	Spare Intake Tube	Length Overall	Diam. Pump	Weight Pounds
Each	Each	Inches	Inches	
\$6.00	\$1.10	20	11/8	21/2

#### Crank Case Pump

SINGLE ACTION-ALL BRASS WITH FLEXIBLE METAL HOSE INTAKE



3		Fig. 388		
Complete Each \$4.50	Spare Intake Hose Each \$1.50	Diam. Barrel Inches	Length Barrel Inches	Length Overall Inches 151/2



#### Parts for Brass Bilge Pumps

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

No. 1 for numbers 0-1 and 5 bilge pumps. I No. 2 for numbers 2, 4, 6 and 8 bilge pumps. Page 59



#### **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 strainer.

Fig. 5		Fig. 5	50
For Pump		For Pump	
Size No.	Each	Size No.	Each
0	\$1.40	5	\$2.15
1	1.50	6	2.65
2	2.15	8	2.65
4	2 15		

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

#### Rubber Hose and Strainer

For Figs. 200, 202 and 723 Brass Bilge Pumps



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

Standard 5 ft. lengths	\$1.00
Cast Bronze Strainer	.50
Other lengths of hose furnished. Price on appl	can be

Fig. 208 Fig. 209

#### Pump Valves

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



Fig. 237

Diameter, in. Wgt., per dz. lbs.	11/2	2 4	21/2	3 7	4
Price per doz.	\$3.75	\$3.75	\$4.50	\$5.00	\$6.50



Fig. 239

Leather Plungers OAK LEATHER

Riveted	together, strong	and	durable. Weight
For Diam. Pump		.0	Per Dozen
Inches	Per Dozen		Lbs.
2	\$3.60		2
21/2	4.00		21/2
3	4.20		3
4	5.40		4

Wood Pump Handles



Turned from soft wood, smooth finish. 9 inches long. Diam. of hole, in. \$2.00 \$2.60 Price per doz.

#### Wood Pump Rods



Pointed on one end. 7/8 Diam., inches 2 to 6 6 to 12 Lengths, ft. \$.15 \$.13 Price per ft.

Fig. 231

NOTE-% inch only furnished in 6 inch multiples. 1% inch only furnished in 12 inch multiples.

#### Bronze Navy Pump Strainers

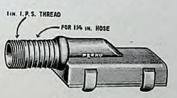




Fig. 704

Fig. 705





Fig. 721

Fig.	Each	Thread Inches	Hose Inches	Length Inches	Width Inches	Weight Pounds
704	\$2.00	1	11/4	7	23/4	2
705	2.00	1	11/4	43/4	23/4	11/3
721	2.00	11/4		5	23/4	1 1/3
722	2.00	11/4		43/4	2 1/4	13%

## GALLEY OR LAVATORY PUMPS

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

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



Fig. 473 Straight Base Fig. 478 Flared Base

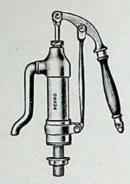
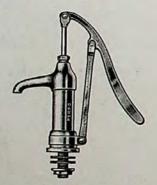


Fig. 474 Flared Base Fig. 479 Straight Base

Barrel B	arrel nches	Length Neck Inches	Threaded For Pipe Inches	Spread Handle Inches	Up Weight
15/8	6	21/2	1/2	14	31/2
Fig.		Polished Bronze Each	Chron Pla Ea	ted	Mahogany Handle Only Each
473-47 474-47		\$14.00 16.00		3.00 3.25	\$ .50 .50

WITH ADJUSTABLE ALL METAL HANDLE HIGH SPOUT-FLARED BASE



				- 18	
Diam. Barrel Inches	Length Barrel Inches 6½	Length Neck Inches 2	Threaded For Pipe I Inches	Spread Handle Up Inches 131/2	Weight Pounds
Poli Bro Ea	nze ch	Plated Each \$14.50	Bronze Handle Only Each	Pla Hai Oi Ea	mium ited indle inly ich

WITH BRONZE T HANDLE LOW OR GOOSENECK SPOUT FLARED FLANGE





Fig. 1040

Length of stroke is 54 inches. Inlet is threaded for % inch pipe.

Capacity per minute, Low Speed Stroke-3 Gallons.

Fig.	Diam. Barrel Inches	Length Overall Inches	Spout Inches	Spout Inches	Weight Pounds	
144	11/2	131/2	3	0	3	
1040	11/2	141/2	41/2	3	31/2	
Fig.		Polisi Bron Eac	ze	arts Onl	Chromium Plated Each	-
144		\$10.0	0		\$11.75	
1040		10.7	5		12.75	

ANGLE TYPE DOUBLE ACTION-SWIVEL SPOUT EFFORTLESS OPERATION



Fig. 677

Angle toward user when installed permits easy effortless operation.

Spout swivels to various positions.

Bottom valve is an improved type to hold prime.

Polished Bronze Each \$8.75	Chromium Plated Each \$10.75	Inlet Pipe Size Inches	Spout Pro- jection Inches	Height Flange to Spout Inches	Weigh Pound 21/4
--------------------------------------	---------------------------------------	---------------------------------	------------------------------------	----------------------------------------	------------------------



#### Corner Lavatory

WHITE VITREOUS CHINA

With chromium plated low spout pump, Fig. 479



Fig. 830

With integral back and round basin with overflow, fitted with chromium plated waste plug. chainstay, chain and stopper. Size of outlet 14 inches outside diameter. Inlet to pump ½ inch inside diameter.

No.	Without Pump Each	With Pump Each	With Faucet Each	Size of Sides Inches	Diam. of Basin Inches	Height Back Inches
1	\$21.00	\$37.50	\$24.50	12x12	10	21/2
2	27.00	43.50	30.50	14x14	11	21/2

#### Flat Back Lavatories

WHITE VITREOUS CHINA

With Compression Faucet

With Chromium Plated Pump Fig. 473







With integral back and round basin. Complete with chromium plated waste plug, chainstay, chain, and stopper. Size of outlet 11/4 inch outside diameter.

Fig. Faucet Each 831 \$18.00 832 21.00	Pump or Faucet		Complete with Pump Each	Size	Diam. Basin Inches	Height Back Inches
	\$21.50 24.50	\$32.50 35.50	12x12 14x14	10	21/2	

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

Automatically locks in closed or open position.

Drain tapped for % inch pipe, tailpiece for % inch

Each	Diam. Bowl Inches	Width Mounting Plate Inches	Height Closed Inches	Extension Open Inches
\$10.00	11	83/4	15	133/4

#### Folding Lavatories

VITREOUS ENAMELED ENTIRELY CHROMIUM PLATED PUMP AND FITTINGS

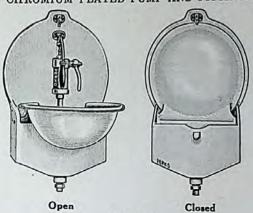


Fig. 732

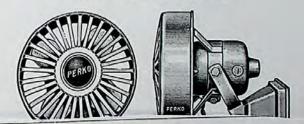
Basin is held in closed position by a spring catch. Inlet and outlet fittings are threaded for ¾ inch pipe. Height Wight Projection Diam. Depth

Each \$52.00	Inches 20	Inches 133/4	Inches 14	Inches 10	Inches 41/2	Weight Pounds 42	
6 Vol		2 Volt Each	Fan Inches		erall ches	Weight	
\$6.00		7.00	6	1199	1/4	2	

Specify voltage when ordering.

#### Electric Fans

MARINE TYPE-6-12-32 VOLTS



#### Folding Lavatories

WITH DRAIN-COMPACT BLUE PORCELAIN ENAMEL AND ALUMINUM



Fig. 342

Closed

ALL ABOVE FURNISHED WITHOUT PUMP OR FAUCET UNLESS OTHERWISE SPECIFIED.

## 64 Perkins Marine Lamp & Hardware Corp. PERKO



#### "PERKO" MARINE CLOSETS

FOR ABOVE OR BELOW WATERLINE

WHITE VITREOUS CHINA BOWLS-ALL BRONZE PUMPS AND FITTINGS, WHITE FINISH BIRCH SEATS AND COVERS - WHITE FINISH

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

PUMP for supply and discharge is 21/2 inch with felt packed piston. Length of stroke 31/2 inches.

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

WASTE ARM has % inch pipe size clean out opening in both ends ample to allow cleaning out of foreign matter or quick draining when hauling out.

OUTLET is 11/2 inch I. P. S. with tail piece for lead pipe or hose connection.

INLET is ¾ inch I. P. S. with tail piece for lead pipe or hose connection.

SEAT AND COVER in two styles, closed front as illustrated or open front.

DIMENSIONS, OVERALL, side to side, 19 inches; front to back, 16 inches; height, 14 1/2 inches, base 11 x 5 inches

#### The Boatman



Fig. 473 Straight Base Fig. 478 Flared Base

Fig. 479 Straight Base

Diam. Barrel Inches	Length Barrel Inches 6	Length Neck Inches 21/2	Threaded For Pipe Inches	Spread Handle Inches	Up Weight
Fig	ŗ.	Polished Bronze Each	Chron Pla Ea	ted	Mahogany Handle Only Each
473.	478	\$14.00	¢10	00	

Each	Each	Handle On Each
\$14.00 16.00	\$16.00 18.25	\$ .50 .50
		\$14.00 \$16.00

#### WITH ADJUSTABLE ALL METAL HANDLE HIGH SPOUT-FLARED BASE

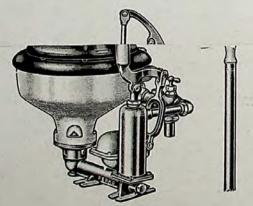


Fig. 1026

With Vertical Handle and Hand Valve

No			Each
1	With	White Seat and Cover, Closed Front	\$57.00
2	With	White Seat and Cover, Open Front	58.00

#### The Cruiserman



Fig. 1121

#### With Horizontal Handle and Foot Valve

No.							
1	With	White	Seat	and	Cover,	Closed	Front
2	With	White	Seat	and	Cover.	Open F	ront

\$58.00 59.00

#### The Yachtsman

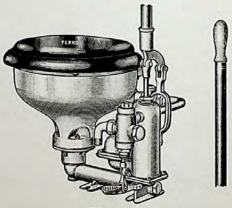


Fig. 829

With Vertical Handle and Foot Valve

No.					
1	With	White	Seat and	Cover,	Closed Front
2	With	White	Seat and	Cover,	Open Front

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

Each \$60.00



#### Air Scoops for Portlights

GALVANIZED OR POLISHED BRASS WITH OR WITHOUT SCREENS



Opening	Galvi	nized	Polished Brass		
of Portlight Inches	Without Screen Each	With Screen Each	Without Screen Each	With Screen Each	
3	\$2.50	\$4.00	\$4.00	\$5.50	
4	3.00	4.50	4.50	6.00	
5	3.50	5.00	5.00	6.50	
6	4.00	5.50	5.50	7.00	
7	4.50	6.00	6.00	7.50	
8	5.00	6.50	6.50	8.00	

Larger sizes made to order-Price on Application.

Screens are soldered into scoops.

With bronze swivel deck plate on application.

#### Cast Bronze Cowl Ventilators

WITH SCREW DECK PLATE-ROUND MOUTH



Fig. 421

Deck Plate Size Inches	Pollshed Bronze Each	Chromium Plated Each	Diam. Mouth Inches	Height Overall Inches	Net Weight Pounds
3 4	\$15.00 18.75	\$19.00 24.00	6 8	73/8 93/8	41/2 81/2

#### Midget Ventilator

CAST BRONZE-OVAL MOUTH BRONZE SWIVEL DECK PLATE AND COVER



No.	Polished Bronze Each	Chromium Plated Each	Diam. Bottom Opening	Extreme Height Inches	Size of Mouth Inches
1 2	\$9.75 10.00	\$12.25	2	61/8	21/4×41/2
-		24	1000		

#### Safety Electric Fans

STREAMLINED FLEXIBLE RUBBER BLADES 6 OR 12 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	12 Volt Each	Diam. Fan Inches	Depth Overall Inches	Weight Pounds
\$6.00	\$7.00	6	41/4	2

Specify voltage when ordering.

#### Electric Fans

MARINE TYPE-6-12-32 VOLTS

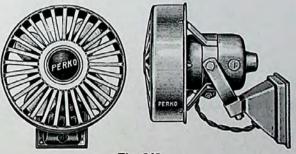


Fig. 648

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	Height Overall Inches	Diam. Guard Inches	Diam. Blades Inches	Size Base Inches	Weight Pounds
\$28.50	8	7	6	23/4×23/4	6
0.00	Specif	v volta	e when	ordering.	



\$58.00

59.00

Each \$60.00 61.00

#### Seamed Cowl Ventilators

GALVANIZED STEEL OR BRASS WITH BRONZE SCREW DECK PLATE



Size Deck Plate Inches	Galv. Steel Each	Polished Brass Each	Diam. Mouth Inches	Height Overall Inches
2	\$ 9.50	\$13.00	4	5
	10.25	13.75	5	6
31/2	11.00	14.50	6	7
31/2	12.00	15.50	7	10
4/2	13.50	17.00	8	11
41/2	18.50	22.00	9	12
5 2	22.50	26.00	10	14
6	30.00	33.50	12	15
8	68.50	72.00	16	21

#### Seamless Cowl Ventilators

HOT DIPPED GALVANIZED STEEL WITH CAST BRONZE DECK PLATES



Fig. 510

Screw Deck Plate



Fig. 513 Swivel Deck Plate

These are our latest improvement in cowl type ventilators, made of heavy gauge sheet steel and hot galvanized after fabrication. The body is smooth and free of seams, a sturdy and good looking ventilator.

Deck Plate Opening Inches	With Screw Deck Plate Each	With Swivel Deck Plate Each	Diam. Mouth Inches	Height Overall Inches	Gauge Before Galvanizing
3	\$15.00	\$17.50	6	8	24
4	19.50	22.50	8	11	24
5	24.50	27.50	10	13	24
6	37.00	41.00	12	15	24
8	75.00	79.00	16	20	20

#### Seamed Cowl Ventilator

GALVANIZED STEEL OR BRASS WITH BRONZE SWIVEL DECK PLATE



Fig. 575

Deck Plate Size Inches	Galv. Each	Polished Brass Each	Diam. Mouth Inches	Height Overal Inches
3	\$14.50	\$17.50	6	71/2
4	17.75	22.00	8	10
5	27.00	32.00	10	121/2
6	37.00	45.00	12	15
8	73.00	86.00	16	20

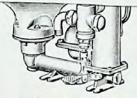


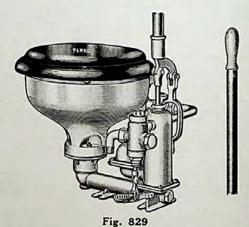
Fig. 1121

#### With Horizontal Handle and Foot Valve

1 With White Seat and Cover, Closed Front

2 With White Seat and Cover, Open Front

#### The Yachtsman



With Vertical Handle and Foot Valve

No.							
1	With	White	Seat	and	Cover.	Closed Front	
						O F	

ALL ABOVE SIZES ARE STANDARD; SPECIAL SIZES AND EXTRA HEIGHT MADE TO wise specified COVERS FOR SWIVEL DECK PLATES CAN BE SUPPLIED, PRICE ON APPLICATION

#### Spun Cowl Ventilators

SHEET BRASS OR COPPER BRONZE SCREW DECK PLATE



Fig. 152

Deck Plate Size Inches	Polished Brass Each	Polished Copper Each	Diameter Mouth Inches	Height Overall Inches
2	\$12.50	\$15.00	4	6
21/2	13.00	15.50	5	7
3	13.75	16.50	6	8
31/2	15.00	18.00	7	9
4	16.50	20.00	8	101/2
5	25.00	30.00	10	14

With bronze swivel deck plate on application.

#### Cast Bronze Cowl Ventilators

WITH SCREW DECK PLATE-ROUND MOUTH



Fig. 421

Deck Plate Size Inches	Polished Bronze Each	Chromium Plated Each	Diam. Mouth Inches	Height Overall Inches	Net Weight Pounds
3	\$15.00	\$19.00	6	73/8 93/8	81/2
4	18.75	24.00	8	93/8	81/2

#### Midget Ventilator

CAST BRONZE-OVAL MOUTH BRONZE SWIVEL DECK PLATE AND COVER



No.	Polished Bronze Each	Chromium - Plated Each	Diam. Bottom Opening	Extreme Height Inches	Size of Mouth Inches
1 2	\$9.75 10.00	\$12.25 12.50	2 2	61/8	21/4×41/2 21/4×41/2

#### Cast Bronze Cowl Ventilators

OVAL MOUTH SCREW TYPE



Fig. 509

Deck Plate Size Inches	Polished Bronze Each	Chromium Plated Each	Height Above Deck Inches	Size Mouth Inches
3	\$15.00	\$19.00	81/8	61/4×4
4	18.75	24.00	85/8	61/2×43/4

SWIVEL TYPE



Fig. 515

With cover for use when ventilator is removed.

Diam. Throat Inches	Polished Bronze Each	Chromium Plated Each	Height Above Deck Inches	Size Mouth Inches
3	\$16.25	\$21.00	91/8	61/4×4
4	20.00	25.00	95/8	61/2×43/4

#### Transom Ventilators

CAST BRONZE



Fig. 1069

Plain Bronze Each	Pol. Bronze Each	Chrom. Plated Each	Size Flange Inches		Weight Pounds
\$1.00	\$1.50	\$2.25	63/4×21/4	3/4	3/4
				-	

With bronze screen soldered in add \$ .50 each.

# 74 Perkins Marine Lamp & Hardware Corp.



#### Space Saver Ventilator

CAST BRONZE

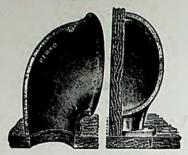


Fig. 782

Designed especially for mounting against outside of deck house or cabin, takes up very little space, can be used to advantage in connection with exhaust fan Fig. 778.

No. 1 2	Diameter at Base Inches 21/2 31/2	Measurements at Mouth Inches 23/8 x 5 31/8 x 71/2	Extreme Height Inches 63/4 9	Weight Per Pair Pounds 33/4 6
No. 1 2	Plain Bronze Per Pair \$6.00 9.00		e ir O	Chrome Plated Per Pair \$10.50 14.50

#### Cruiser Ventilator

STREAMLINE-CAST BRONZE



Fig. 908



Cut away view showing screen and water guard

An extremely neat ventilator for cruiser decks and cabin roofs.

An integral water guard inside mouth prevents spray or rain from entering ventilator. A bronze screen permanently installed to keep insects out of cabin.

Polished Bronze Each \$10.00	Chromium Plated Each \$12.50	Size Base Inches	Height Overall Inches	Weight Pounds
\$10.00	\$12.50		31/2	43/4

#### Clam Shell Ventilators

CAST BRONZE



Fig. 323

io. 4	Width Opening Inches 23/4 31/2	Height Opening Inches 1% 2	Size Base Inch 3 % x 4 x	e W
10.	Plair Bron: Each	ze	Polished Bronze Each	Chron Plat Eac
4 5	\$1.05 1.20		\$1.65 1.80	\$2. 2.

#### Streamline Ventilator

CAST BRONZE



	Width	Height	Size
	Opening	Opening	Base
0.	Inches	Inches	Inches
	13/4	1	25/8×33/8
	27/8	15/8	25/8×33/8 35/8×43/4

Polished Bronze
Each
\$1.50
1.65

No

\$3.45

\$2.00

11/2

71/2×4

Weight

#### Streamline Ventilator

CAST BRONZE



			Fig. 476			
No.	Polished Bronze Each	Chromium Plated Each		Height Opening Inches	Size Base Inches	Weigh
6	\$3.25	\$4.00	31/2	23/4	5x6	1
7	4.00	4.90	43/8	31/4	6x7	2
8	5.75	6.75	53/4	31/2	7x8	2 =

#### New Streamline Ventilator

CAST BRONZE



A ventilator with graceful lines that will enhan-

the appear	ance of any	boat.		
Polished	Chromium	Size	Size	Weigh
Bronze	Plated	Opening	Base	
Each	Each	Inches	Inches	

3x1

\$4.45



#### Turbine Ventilator

FOR MARINE USE
IMPROVED BEARING RUNNING IN OIL
GALVANIZED IRON



For removing gasoline fumes from engine room and bilge, cooking odors from the galley, ventilation of the cabins, etc.

The moving breeze whirls the head and the resulting vacuum causes a powerful upward lift to the air below. Absolutely quiet in operation, durable and rainproof.

ribsolutery	quiet in oper	ation, darable at	a rambro
Diam.	Galv.	Height	Diam.
Body	Iron	Overall	Overall
Inches	Each	Inches	Inches
4	\$ 9.00	141/2	11
5	9.50	161/2	13
6	10.00	17	15
7	10.50	171/4	161/2
8	11.00	18	161/2
10	12.00	191/2	19
12	14.50	20	22

#### Liverpool Smoke Heads

SHEET STEEL OR BRASS-RIVETED



Size	Galv.	Brass	Dimensions
Inches	Each	Each	Inches
3	\$ 8.00	\$10.00	111/2×4
31/2	8.50	10.50	12 x41/2
4	9.00	11.00	13 x51/2
41/2	9.75	11.75	14 x6
5	10.75	13.00	15 x7
51/2	12.00	14.50	16 x71/2
6	13.50	16.25	17 x8
Lar	ver sizes	made to ord	ler, price on

application.

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

#### Water Deck Irons GALVANIZED CAST IRON



Fig. 430

Size of Stove Pipe		Outside Diam. of Neck	Diam. Flange	Weight
Inches	Each	Inches	Inches	Pounds
21/2	\$2.00	23/4	01/2	174
3	2.20	33/8	71/2	4
31/2	3.00	37/8	81/2	5
4	3.25	43/8	91/4	61/4
41/2	3.50	41/8	10	8
5 .	3.75	53/8	101/2	9
51/2	.4.00	57/8	11	93/4
6	4.50	.61/2	111/4	111/4
7	5.50	73/8	123/4	131/4
8 .	8.00	83/8	137/8	19

#### Ice Box Ventilators

CAST BRONZE—POLISHED



No.	Polished Bronze Each	Fig. 783 Chromium Plated Each	Diam. of Opening Inches	Size Plate Inches
			Tilches	
1	\$3.75	\$4.75	12/8	21/2×21/2
2	4.00	5.00	21/2	31/4×31/4
3	4.50	6.00	3	41/8×41/8
4	5.50	7.00	33/8	47/0×47/0

#### Ventilator Deck Plates

CAST BRONZE-POLISHED-SCREW TYPE



Fig. 527

Complete with key and extra ring for cowl.

Diameter Opening Inches	Polished Each	Chromium Plated Each	Diameter Plate Inches	Wei Ea	
2	\$ 3.50	\$ 4.75	35/8	12	oz.
21/2	3.90	5.15	41/2	1	lb.
3	4.65	6.00	47/8	11/4	lbs.
31/2	5.50	7.00	51/2	13/4	lbs.
4	6.65	8.25	53/4	21/4	lbs.
41/2	7.65	9.25	63/8	31/4	lbs.
5	9.65	11.50	7 18	33/4	lbs.
6	12.00	14.00	81/4	41/2	lbs.
8	27.50	32.00	101/4	71/2	lbs.

#### Swivel Deck Plates

CAST BRONZE-FOR COWL VENTILATORS



Fig. 419

Permits cowl to be turned to any direction.

For Size Venti- lator Inches 3	Open- ing in Base Inches 21/4	Each <b>\$ 6.00</b>	For Size Venti- lator Inches	Open- ing in Base Inches	Each \$17.50
4	31%	9.00	9	81/4	20.50
5	41/2	11.00	10	91/2	29.00
. 6	5	13.25	12	111/4	35.00
7	6	14.50			

Price does not include cap, if cap is desired add 25% to above prices.



#### Regular Deck Plates

CAST BRONZE-WITH KEY



Fig. 526

Diam. Opening Inches	Polished Complete Each	Chromium Plated Complete Each	Polished Covers Only Each	Keys Only Each	Outside Diameter Plate Inches
1	\$ 1.15	\$ 1.85	\$ .65	\$ .20	21/2
11/2	1.45	2.15	.75	.20	3 3
2	2.10	2.80	1.10	.25	35/8
21/4	2.45	3.15	1.30	.30	41/2
2½ 3	3.00	3.80	1.55	.30	47/8
31/2	3.85	4.70	1.95	.40	51/2
4/2	4.70	5.70	2.40	.45	53/4
41/2	5.80	6.90	2.95	.50	63/8
5	6.90	8.25	3.50	.55	7 16
6	8.25	9.90	4.15	1.00	81/4
8	21.50	25.50	10.75	1.40	101/4

#### Pipe Deck Plates

CAST BRONZE-WITH KEY-I. P. S. THREAD



Fig. 528

Can be furnished with words "water," "gas," "oil," "fuel," cast in cover, on all sizes 1 inch to 2½ inch

Pipe Size Inches	Polished Complete Each	Chromium Plated Complete Each	Polished Covers Only Each	Keys Only Each	Outside Diamete Plate Inches
3/4	\$ 1.40	\$ 1.85	\$ .70	\$ .20	25/8
1	1.50	2.00	.75	.20	21/8
11/4	1.85	2.40	.90	.25	3 5
11/2	2.10	2.75	1.05	.25	33/4
2	2.75	3.40	1.40	.30	41/4
	3.60	4.60	1.85	.30	45/8
21/2	4.70	5.70	2.30	.40	53/8
	Larger :	sizes—pric	e on app	lication.	

#### Deck Plate Key

CAST BRONZE



Fig. 826

Will fit all sizes of deck plates up to 10 inch diameter, making it unnecessary to have separate keys for each plate.

Each	Length Overall Inches	Weight Pounds
\$1.40	81/2	1

#### **Automatic Boat Drainer**

BRASS TUBING—CAST BRONZE FITTINGS
BALL TYPE—STREAMLINE



Fig. 397

Requires no attention after it is installed. Water cannot back up into the boat as the top of the tubing is above the water line.

A sponge rubber ball is forced into a machined seat automatically closes the opening when the boat is in reverse or not in motion.

Heavy bronze strainer in inlet end. Starts draining at 7 miles per hour.

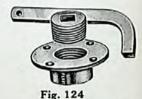
No.	Each	Height Inside Hull Inches	Diam. Tubing Inches	For Thickness Hull Inches	Weight Pounds
1 2	\$ 9.00 12.00	151/2	11/8	up to 11/2 up to 21/4	2 4

#### Garboard Drain Plug

CAST BRONZE-PLAIN



Fig. 714



A few of these installed in garboard allows quick drainage of boat when hauled out, by removing heavy

plug. Threads are tapered pipe sizes and plugs are watertight.

Plain Pipe Diam.

Bronze Size Flange Depth Weight

Fig.	Plain Bronze Each	Pipe Size Inches	Diam. Flange Inches	Depth Inches	Weight Ounces
714	\$1.20	1/2	2	5/8	3
124	2.25		31/8		10

Fig. 124 is furnished complete with wrench.

#### Automatic Boat Drain

CAST BRONZE-PLAIN



ie. 213

For use in life boats. Made of heavy cast bronze, with sponge rubber ball valve. Cast bronze cover with chain attached, threaded 111 inches, No. 14 thread.

		cu 116 michies		
Complete Each	Caps Only With Chain Each \$1.15	Balls Only Per Dozen \$1.80	Diam. Opening Inches	Diam. Flange Inches 35/8

#### Runabout Steerers

DASHBOARD TYPE-FOR TILLER ROPE 15 INCH WHEEL-BLACK FINISH POLISHED ALUMINUM ALLOY CASTINGS

These steerers combine good looks and sturdiness. The wheel is hard rubber with steel core.

10 feet of Bowden wire is furnished with steerers having throttle control.

WITH 22 DEGREE BRACKET



Fig. 1131

Without With Controls Each Each

\$22.00

\$19.00

Length Dash to Wheel Inches

Length Overall Inches 61/2 13

Inside Diam. Drum 3

Weight

WITH 40 DEGREE BRACKET



Fig. 1149

Without Controls \$22.00

With Controls Each \$25.00

Length Dash to Wheel Inches 101/2

Inside Diam. Drum Inches Length Overall Inches

Weight Pounds 91/4

#### **Aluminum Racing Fin**

CAST SILICON ALUMINUM



Fig. 189

ength Overall Inches Each \$3.50 123/4

Depth Blade Inches 5

Inches 21/2×10

Weight Lbs. 11/3

#### Racing Outboard Steerers

WITHOUT CONTROLS



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

Each	Diam. Wheel Inches	Diam, Base Inches	Overall Height Inches	Diam. Drum Inches	Weight Pounds
\$13.50	15	61/4	51/8	3	61/2

#### Racing Outboard Steerers

WITH REMOTE THROTTLE CONTROL AND CUTOUT



Cast aluminum alloy with black finish hard rubber steel cored wheel, complete with 10 feet control wire

Each	Diam. Wheel Inches	Diam. Base Inches	Overall Height Inches	Diam. Drum Inches	Weight Pounds
\$18.00	15	71/8	6	3	71/2

#### Outboard Motor Transom Plates

CAST BRONZE-PLAIN



Fig. 814

Furnished complete with tanned leather inserts.

Plain Per Pair	Inside Diam. Inches	Outside "Diam. Inches	Extreme Thickness Inches	Weight Per Pair Ounces
\$1.20	13/4	3	135	6

#### Worm Geared Steerer

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

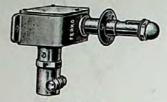


Fig. 512

Steering ratio, 101/2 to 1. 11/4 turns equals 45 degree rudder angle.

For rudder of 4 square foot area.

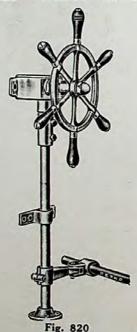
Each	Diam. Wheel Shaft Inches	Wheel Shaft Inches	For Hub Inches	Box Overall Inches	Weight Pounds
\$30.00	1	33/4	21/8	71/4×21/2	151/2

Model E-With reversed shaft for thru-bulkhead mounting to order, use above price.

Larger sizes with larger shaft for rudder up to 10 square feet to order, price on application.

*Length between box and wheel.

WITH WHEEL AND FITTINGS ALL BRONZE-WITHOUT VERTICAL SHAFT

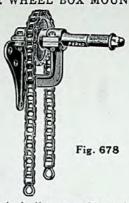


Complete	with	16	inch	bronze	wheel	 Each \$58.00
Complete	with	20	inch	bronze	wheel	 61.50
Complete	with	24	inch	bronze	wheel	 67.00

SPARE PARTS	
Bronze wheels only, see Fig. 976, Sizes 4, 5 and 6.	
Lower lever with clevis, Fig. 865, Nos. 1 and 5 Bulkhead Bracket, Fig. 865, No. 6 Floor plate, Fig. 865, No. 8	8.00 3.75 3.50

#### Chain Type Steerers

ALL BRONZE-WITH ROLLER CHAIN FOR WHEEL BOX MOUNTING



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

Vheel End of Shaft Inches	Each	*Length Shaft Inches	Dimensions of Bracket Inches	Weight Pounds
1 7/8	\$27.00 29.00	27/8 27/8	6x51/2 6x51/2	111/2

*Length between bracket and wheel.

Chain	only,	with	ends,	, each	\$10.
Sprock	et onl	y, eac	h		5.

Wheels for above see Figs. 657, 914 and 976, Sizes 5 and 6.

Special machining of shaft, on application.

Supplied with reversed shaft for thru-bulkhead mour ing to order, on application.

WITH POLISHED BRONZE WHEEL



Fig. 674 For Wheel Box Mounting



Fig. 675 For Thru-Bulkhead Mounting

	The state of the s			
Outside Diameter Wheel Inches	Polished Each	Chromium Plated Each	Machined Wheel End of Shaft Inches	D S In
16	\$35.00	\$39.00	7/8	
20	39.00	44.00	7/8 7/8	
24	46.00	51.00	1	

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

Wheel only, see figs. 914 and 976, sizes 1, 2 and 3.



#### Chain Type Steerers WITH INLAID MAHOGANY WHEEL



Ø	
-	Wheel End
	of Shaft
Each	Inches
\$59.00	1/8
65.00	1
74.00	1
	65.00

#### Drum Steerers

GALVANIZED CAST IRON OR CAST BRONZE FOR TILLER ROPE



Fig. 661

Galv. Each \$ 5.50 7.50 13.00	Polished Bronze Each \$ 7.00 11.00 18.50	Size Base Inches 33/8 x 33/8 4 x 4 51/8 x 51/8 53/	Diam. Length Drum Inches Inches 23/8 3 25/8 33/8 45/8
22.50		53/4×53/4	4 0
	\$ 5.50 7.50	Galv. Bronze Each Each \$ 5.50 \$ 7.00 7.50 11.00 13.00 18.50	Galv. Bronze Base Inches 5.50 \$ 7.00 33/8 x 33/8 7.50 11.00 4 x 4 13.00 18.50 51/8 x 51/8

#### Steering Wheels



Fig. 976

With Short Hub for steerers Figs. 674 and 675

	Overal Diam.	Bronze	Chromium Plated	For Shaft	Length Hub	Keyway
No.	Inches	Each	Each	Inches	Inches	Inches
1	16	\$ 9.00	\$12.00	% or l		/4
2	20	13.00	17.00	7/8 or 1	1	/4
3	24	18.00	22.00	1	11/4	1/4
	With	Long Hub	for steerer	s Figs. 5	12 and	678
4	16	\$13.00	\$16.00	7/8 or 1	21/8	1/4
5	20	16.50	20.50	7/8 or 1	21/8	1/4
6	24	22.00	26.00	1	21/8	1/4



Fig. 914

	With	Short Hub	for steerers	Figs.	674 and 6	75
	Overall Diam.	Polished Brass	Chromium Plated Each	For Shaft Inches	Length Hub	Keyway Inches
•	Inches 16	\$14.00	\$17.00	1/8 or 1	1	1/4
	20	16.00	20.00 24.00	% or 1	11/4	12
	24 With	20.00 Long Hub	for steerers	Figs.		578
	16	\$16.00	\$19.00	% or	1 21/8	12

#### 26.00 Mahogany Steering Wheels

INLAID RIM-CAST BRONZE HUB

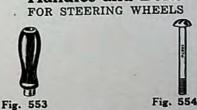


Fig. 657

		A ANTONE AND THE PARTY OF THE P		
Diam. Overall Inches	Each	For Diam. Shaft Inches	Thickness of Hub Inches	Size Keyway Inches
18	\$30.00	7/8	21/8	/4
20	32.00	1/8 or 1	21/8	1/4
24	36.00	1	21/8	1/4
28	45.00	1	21/8	1/4
30	60.00	1	21/8	16
36	90.00	11/4	21/2	3/8
42	101.00	11/4	21/2	3/8
48	112.00	13/8	21/2	3/8
	10 10 10 10 10 10 10 10 10 10 10 10 10 1		the state of the s	

#### With bunged rim to order, price on application.

### Handles and Bolts



andles Only ngth ches Each	Galvanized Bolts Only Size Inches Each	Bronze Bolts Onl Size Inches
\$ .20 3½ .30	3/8 x 3 1/2 \$ .20 1 x 4 1/4 .30 3/2 x 4 1/4 .50	3/8×31/4 \$



#### Columbian Propellers

MANGANESE BRONZE-AILSA CRAIG TYPE

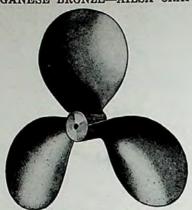


Fig. 809-1st Quality Fig. 739-Peerless Quality

Diam. Inches	Fig. 809 3 Blade Each	Fig. 739 3 Blade Each	Boring Each	Maximum Standard Bore Inches
10	\$ 11.50	\$ 9.50	\$ 2.20	7/8
11	12.00	10.00	2.20	1
12	12.80	10.50	2.40	11/8
13	14.00	11.25	2.50	11/8
14	15.40	12.50	2.60	11/4
15	17.50	14.00	3.00	11/4
16 17	19.50	15.75	3.30	13/8
17	21.75	17.50	3.45	13/8
18	24.00	19.50	3.80	13/8
19	27.00	22.00	4.00	11/2
20	31.50	25.50	4.00	11/2
21	38.00	30.50	4.50	13/4
21	43.50	35.00	4.50	13/4
23	48.00	38.50	5.00	13/4
24	52.50	42.00	5.00	13/4
25 26	57.00	45.50	5.50	2
26	64.00	51.50	6.00	2
27	69.50	56.00	6.50	2
28	76.00	61.00	6.50	2
30	90.00	72.00	7.50	21/4
32	110.00	88.00	9.00	21/2
34	129.00	104.00	10.00	23/4
36	154.00	124.00	12.00	23/4
38	178.00	143.00	14.00	3
40	207.00	165.00	16.00	3
42	234.00	188.00	19.00	31/4
44	265.00	212.00	22.00	31/4
46	300.00	240.00	25.00	13/4 2 2 2 2 1/4 2 1/2 2 3/4 2 3/4 3 1/4 3 1/2 4 3 1/2 4 3 1/2
48	345.00	276.00	28.00	31/2
50	372.00	298.00	34.00	4

With larger hub for larger bore-on application. 2 blade and special styles-on application.

#### Bronze Rudder Collars



Fig. 815

For Diam. Stock Inches	Each	Outside Diameter Inches	Thickness Inches	Weigh
- 1	\$1.40	13/4	15	7
11/8	1.40	13/4	13	61/2
11/4	1.80	21/8	iš	11
13/8	2.25	21/2	11/8	19
11/2	2.50	21/2	11/8	19 .
			100000000000000000000000000000000000000	

#### Speed Boat Rudders

CAST MANGANESE BRONZE



Furnished complete with tiller, collar, nut and rudder port. Standard length stock above blade 12 inches.

No.	Complete Each	Rudder Only Each	Blade Size Inches	Diam. Stock Inches	Length Tiller Inches
1	\$33.00	\$16.50	9x14	1	12
2	35.50	20.25	10x16	1	12
3	39.00	22.75	11x18	11/8	14
4	49.50	29.00	12x20	11/4	16

With stock longer than standard, price on application

#### Hyspeed Rudder and Stock

CAST MANGANESE BRONZE

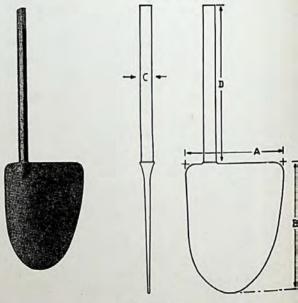


Fig. 818

Constructed in perfectly balanced proportion. Designed for express cruisers, runabouts, speedboats at all boats not carrying a skag.

	וע	MENDIONS	, INCITE	2.00	
No.	Each	A 9	B 12	C	D 16
2	\$17.75 21.50	101/2	14	11/8	. 18
3	22.75	12	16	11/4	18
4	30.50	131/2	18	13/8	24
5	43.00	15	20	11/3	30
6	63.25	161/2	22	13/4	36
7	86.00	18	24	21/4	40
8	107 50	20 •	7.0	4 74	

#### Cruiser Rudders

CAST MANGANESE BRONZE



Fig. 816

Total

Blade Size Inches	Each	Blade Thick- ness Inches	Diam. of Stock Inches	Length of Stock Inches	Longer Stocks Per Inch
12x12	\$15.25	1/4	1	12	\$ .20
13x13	16.50	12	1	12	.20
14x14	20.00	1%	1	12	.20
15x15	22.75	1%	i	12	.20
16x16	25.50	17	1	12	.20
18x16	26.50	12	i	12	.20
18x18	29.00	12	1	12	.20
20x18	33.00	12	11/4	18	.35
20x20	38.00	12	112	18	.35
22x18	38.00	12	11%	18	.35
22x20	49.50	3/	112	18	.35
22x22	51.00	3/8	112	18	.35
		78	172	18	.35
24x20	51.00	78	179	18	.35
24x22	52.00	28	174	18	.35
24×24	53.50	3/8	1 1/4	10	.35

#### Quadrant Tillers

GALVANIZED MALLEABLE IRON



Fig. 651

Radius Inches	Galv. Each	Max. Diam, Rope Inches	Square Hole Adjustable Inches	Weight Pounds
7	\$ 2.75	3/8	10 to 3/4	3
10	5.00	1/8	n to l	912
12	7.00	3/8	3/4 to 11/4	12/2
15	10.50	1/2	3/4 to 1 1/4	13
18	17.50	5/8	1 to 13/8	27
24	35.00	3/4	11/2 to 13/4	46

#### Galvanized Rudders GALVANIZED FORGED STEEL



Size No.	Galv. Each \$ 5.50	Size Plate Inches 12x12x1/8	End of Post Inches	Rudder Post Inches 40	Post	Each Pounds
1	6.75	14x14x1/8	2/8	42	. 3/4	13
2	9.50	16x16x 16	.3/4	48	1	25
3 .	12.00	18x18x 3	3/4	52	1	35

Rudder Skags
DROP FORGED STEEL AND BRONZE



Fig. 649

Size No. 0	Galv. Each \$2.25 3.25	Plain Bronze Each \$5.00 8.00	Dimensions Inches 24x11/2x3/8 30x13/4x1/2	Rudder Post Inches	Weight Each Pounds 41/2 9
2	6.00	16.50	42x2 x 3/8	1	17

Straight Tillers
GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 650

With square hole and set screw for Fig. 647 rudder.

Length Inches	Galv. Each \$1.40	Plain Bronze Each \$2.55	Size of Square Hole Inches 5/8 x 5/8	Weight Each (Iron) Pounds
1.0	1.60	2.90	3/8×3/8	13/4
12	2.25	3.20	3/4×3/4	2/8
15	2 90	6.40	/8X/8	31/2

Bronze Tillers CAST MANGANESE BRONZE



Fig. 810

For round stock rudders Figs. 813, 816, 818.

No. 1 3	Each \$ 7.20 10.00	Length Inches 12 14	Rudder Stock Inches 1 11/8	Fize Keyway Inches	Weight Pounds 31/4 4/2
4	15.80	16	11/4	To	1 3 2

# 82 Perkins Marine Lamp & Hardware Corp. PERKO



#### Rudder Ports with Stuffing Box

CAST BRONZE-PLAIN WITH BRASS GREASE CUPS



Eliminates leakage at rudder post entrance through

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

Each \$5.50	Size Flange Inches	Length Bearing Inches	for Fastening Inches	Weight Pounds	
5.75	41/4×21/4	53/8	3/8	31/4	
6.00	41/4×21/2	51/4	3/8	31/2	
6.50	5 x25/8	51/4	1/2	33/4	
8.00	53/4×3	63/8	1/2	51/2	
8.75	61/4x31/4	63/4	1/2	61/2	
9.50	61/2×31/2	63/4	1/2	63/4	
	\$5.50 5.75 6.00 6.50 8.00 8.75	Flange Inches \$5.50 4 x2 5.75 4 4x2 4 6.00 4 4x2 4 6.50 5 x2 6 8.00 5 34x3 8.75 6 4x3 4	Flange Inches Inches 1	Flange Inches Inches Inches Inches 55.50 4 x2 51/8 76 5.75 41/4 x21/4 51/8 76 6.00 41/4 x21/2 51/4 3/6 6.50 5 x25/8 51/4 1/2 8.00 53/4 x3 63/6 1/2 8.75 61/4 x31/4 63/4 1/2	Size   Flange   Fla

#### Rudder Brace Pintles

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 1071

8ize No. 000	Galv. Each	Plain Bronze Each \$ .36	Between Straps Inches	Length Straps Inches 21/4	Width Straps Inches	Galv. Weight Ounces 3
00	\$ .25	.42	5/8	27/8	3/4	4
0	.30	.48	3/4	31/2	7/8	6
1	.40	.60	1/8	41/4	7/8	7
2	.50		1	41/2	1	10
3	.60		11/4	43/4	1	11
4	.85		11/2	51/2	11/4	23

#### Rudder Brace Gudgeons

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 1070

Size No.	Galv. Each	Plain Bronze Each	Between Straps Inches	Length Straps Inches	I. D. Hole Minimum Inches 3%	Galv. Weight Ounces
00	\$ .20	.36	3/8	2	10	21/2
0	.25	.42	3/4	21/2	1/2	31/2
1	.30	.48	1/8	3	1/3	41/2
2	.35		1	3	10	5 "
3	.45		11/4	31/4	5/8	7
4	.50		11/2	33/4	3/4	12

#### Rudder Brace Gudgeons

GALVANIZED MALLEABLE IRON OR BRONZE NARROW PLATE TYPE



Fig. 1072

		Tucuca	Inches	Inches	Weight Ounces
\$	.30	17/8	1	7.0	11/2
.25	.36	17/8	T	16	2
.30	.42	2	11/8	716	3
.35	.48	21/8	1 3	1/2	31/2
.40		23/8	11/4	16	4
	.25 .30 .35	\$ .30 .25 .36 .30 .42 .35 .48	.25 .36 1½ .30 .42 2 .35 .48 2½	\$ .30   178   1 .25   .36   178   1 .30   .42   2   178   1 .35   .48   21/8   1 3/14	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

WIDE PLATE TYPE



Fig. 1073

Size No.	Galv. Each	Plain Bronze Each	Length Plate Inches	Width Plate Inches	I. D. Hole Minimun Inches	Weight Ounces
000		\$ .30	27/8	5/8	3/8	3
00	\$ .25	.36	33/8	3/4	16	31/2
0	.30	.42	31/2	7/8	16	41/2
1	.35	.48	35/8	7/8	1/2	6

#### SCREW TYPE



Fig. 1074

Size No.	Galv. Each	Plain Bronze Each	Diam. Shank Inches	I. D. Hole Minimum Inches	Weight
000		\$ .15	5	3/8	1
00	\$ .10	.15	3/8	16	1.,
0	.12	.20	3/8	16	1/7
1	.15	.30	16	16	1/2
2	.20		1/2	16	2

#### Sliding Rudder Fittings

CAST BRONZE



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

Between Straps Inches	Width Track Inches	Length Track Inches
₹8	1	18

\$3.00

Complete Per Set \$7,00 Fig. 552



#### "Perko" Reverse Gear Controls

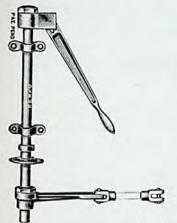
HEAVY CAST BRONZE—POLISHED FOR 1 INCH OR 11/8 INCH SHAFT

NO MACHINING OF SHAFT—NO EXTRA EXPENSE

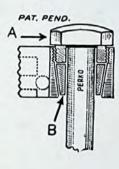
The main feature of "Perko" controls is that it is unnecessary to have shaft machined, such as threading, key seating or drilling.

A mechanically perfect wedging device is incorporated in both upper and lower lever (patent pending). When installing it is only necessary to insert tapered bushing "B" around shaft and tighten nut "A" and an absolutely fast grip on the shaft is obtained, at no extra expense for machining, and very little labor.

A simple arrangement holds the control handle horizontally and when not in use can be placed in a vertical position by a slight movement of the hand.



Interior view of tapered fastening device.



Bulkhead

Weight

Fig. 663

Length Sockets Diam.

Handle Inches	Lever Inches 10	for Rod Inches	Shaft Inches	of Shaft Inches	Shaft Pounds 151/4
Fittings c	omplete-	-except sl	naft		\$28.00
		housing o		ch	15.00
		t-per foo			2.50
		shaft—per			3.00

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 a furnished to fit opening in deck lange.

Furnished with two sockets threaded or % inch rod. Deck flange is 5 x 2% nches. Length of throw is 8½ inches.

Polished	Chromium	Length	Length
Bronze	Each	Handle	Lever
Each	Plated	Inches	Inches
\$22.00	\$28.00	25	8



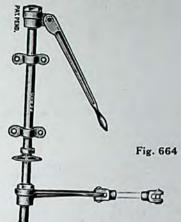
Fig. 720

#### "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.



	1000				
Length Handle Inches 18	Length Lower Lever Inches 10	Sockets Threaded for Rod Inches	Diam. Vertical Shaft Inches	Bulkhead to Center of Shaft Inches 2	Weight Without Shaft Pounds 131/4
Fitting co	mplete-	except sha	ft		\$24.00
Handle ar	d housin	g only—ea	ach		11.00
I inch bre	nze shafi	-ner foo			2.50

#### Clutch Control

CAST BRONZE-POLISHED

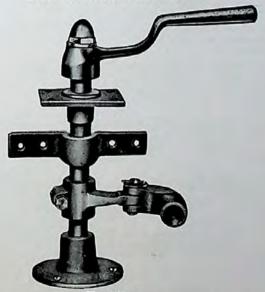


Fig. 822

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.

Per Set ......\$24.0

With 10 inch handle, add \$1.00 each. With 12 inch handle, add \$2.25 each.

Above items, (Except Fig. 720) desired CHROMIUM PLATED, add 40% to Polished Bronze Price SPARE PARTS FOR ABOVE, SEE FIG. 865



## Spark and Throttle Controls

FRICTION TYPE FOR CONTROL ROD CAST BRONZE

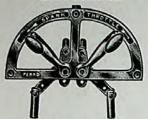


Fig. 653

Control rod sockets are tapped for  $\frac{1}{4}$  or  $\frac{1}{16}$  inch rod. Shafts for connecting rods are long enough for mounting on bulkhead 2 inches thick.

Polished	Chromium	Size	Weight
Bronze	Plated	Frame	Each
Each	Each	Inches	Pounds
\$6.25	\$9.25	61/2×31/4	11/4

Sockets for 1/4 inch rod furnished unless otherwise specified.

#### Spark and Throttle Controls FRICTION TYPE-FOR BOWDEN WIRE

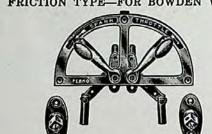


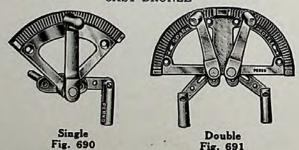
Fig. 654

Equipment includes special clips for connecting bowden wire and two swivel clamps for supporting bowden casing.

Polished	Chromium	Size	Weight
Bronze	Plated	Frame	Each
Each	Each	Inches	Pounds
\$7.75	\$10.75	61/2×31/4	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 & inch rod. Furnished for 1/4 inch rod

Fig.	Polished	Chromium	Size
	Bronze	Plated	Frame
	Each	Each	Inches
690	\$3.50	\$5.00	41/4×31/8
691	6.25	9.00	6 ×3

## "Sea-Way" Throttle Control CAST BRONZE—FOR % INCH ROD

Fig. 847

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

Has heavy leather washers between flange and rod socket. Tension can be increased or decreased by adjusting rod socket.

Polished Bronze Each \$6.00	Chromium Plated Each \$7.00	Handle Inches	For Diam. Rod Inches	Flange Inches 21/4	Weight Pounds
40.00	Ψ1.00	772	78	-74	

## "Sea-Prince" Throttle Control CAST BRONZE—FOR & INCH ROD



Fig. 848

Same design and ability as the Sea-Way Control above but fitted with lever arm and socket for mounting on side of wheel box or bulkhead.

Polished	Chromium	Length	Length	Diam.	Weight
Bronze	Plated	Handle	Lever Arm	Flange	
Each	Each	Inches	Inches	Inches	
\$6.50	\$7.50	41/2	31/2	21/4	1

#### Throttle Controls

FOR ROD OR CONTROL WIRE CAST BRONZE—RATCHET TYPE



For Control Wire



For Control Rod

A strong and very practical control for all types of boats, an improved ratchet device that is almost noiseless, yet the handle cannot be shifted out of place by vibration. Furnished with finishing plate for outside of bulkhead, all botts and swivel fittings for control wire and casing an analysis of the same and casing and same and

Plain	Pelished	Chromium	Length	Width
Bronze	Bronze	Plated	Plate	Plate
Each	Each	Each	Inches	Inches
\$6.00	\$7.50	\$9.00	6	23/8
BE SUKE	TO SPECIFY S	SIZE OF ROD	WHEN	OKDERING



#### Remote Throttle Controls

PLAIN CAST BRONZE FOR BOWDEN WIRE SIDE PATTERN FLOOR PATTERN

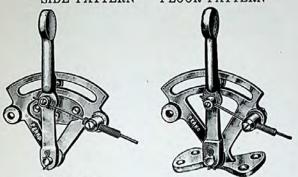


Fig. 350

	Control of the late of the lat
Either	Size
Style	Floor Plate
Each	Inches
\$9 9E	313/

loor Plate Over Inches Inches

Width Overall Inches 33/4 Height Overall Inches 53/4

Fig. 351

Weight Ounces 14

Prices do not include Bowden Wire or Casing.

#### Spark and Throttle Controls

CAST BRONZE-ADJUSTABLE-FOR ROD



Fig. 904

Side Bracket



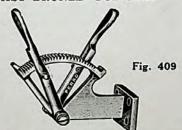
Fig. 905

Position can be changed by loosening one screw. The toothed arc holds control in desired position. Control rod sockets are tapped for 1/4 or 1/8 inch rod.

	Bronze Each	Plated Each
ete Single	\$3.25	\$5.50
	5.00	7.50
ete Single	4.25	6.75
te Double	6.00	8.75
ts Only	1.50	2.75
	ete Double	Bronze Each stee Single \$3.25 ete Double 5.00 ete Single 4.25 ete Double 6.00

#### Front Bulkhead Controls

FOR BOWDEN WIRE CAST BRONZE—POLISHED



For use with Control Wire and Casing.

		Datteme				
4	Polished Bronze Each	Chrom. Plated Each	Arc	Projec- tion Inches	Mounting Plate Inches	Weight
Single	\$3.50	\$6.50	25/8 25/8	5	17/8×13/8 12/8×13/8	3/4
Double	5.25	8.50	25/8	5	17/8×13/8	

#### Spark and Throttle Control

FOR ¼ OR 15 CONTROL ROD CAST BRONZE — RATCHET TYPE



Fig. 331

Polished Bronze Each \$7.50

Chromium Plated Each \$10.00 Length I'late Inches

Width Plate Inches

BE SURE TO SPECIFY SIZE OF ROD WHEN ORDERING

#### Dashboard Choke Controls

ALL BRASS CONTROL HANDLE



Fig. 371

#### WITH STEEL CASING AND WIRE

	7 Ft.	10 Ft.	15 Ft.
s	Lengths	Lengths	Lengths
	Per Set	Per Set	Per Set
	\$2.50	\$2.75	\$3.30
	8	Lengths Per Set	7 Ft. 10 Ft. Lengths Lengths Per Set Per Set

#### WITH BRASS CASING AND WIRE

	LITTE DIGITOR	OTTOTTIO TITLE	11 4444
5 Ft.	7 Ft.	10 Ft.	15 Ft.
Lengths	Length	s Lengths	Lengths
Per Set	Per Set		Per Set
\$2.80	\$3.20	\$3.85	\$4.95

With chromium plated handle, add \$ .25 per set.

#### Bowden Wire and Casing

TINNED STEEL OR BRASS STRONG—FLEXIBLE

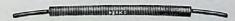


Fig. 353

Wire and casing furnished in lengths up to 100 feet

each.		Casing	Wire	0. D.	Diam.
	Complete Per Foot	Only Per Foot	Only Per Foot	Casing	Wire
Steel	\$ .11	\$ .08	\$ .03	1/4	.072
Bross	22	.16	.06	14	.072

#### Control Wire Handles

ALL BRASS-WITH SPRING



Fig. 692

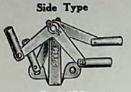
Control wire and casing can be easily attached. For use on a dash or bulkhead up to 2 inches thick.

Polished Brass Each \$1.65	Chromium Plated Each \$1.90	Closed Inches	Diam. Stem Inches	Weight Ounces 3
\$1.65	\$1.90	41/2	78	380



#### Control Cranks

CAST BRONZE-PLAIN-14 OR 15 INCH ROD SIDE OR UPRIGHT TYPES



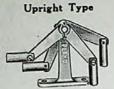


	Fig. 636		Fig. 637	
Length Arms Inches	Height Overall Inches 25/8	Size Base Inches 21/4x5/8	Weight Single Ounces 5	Weight Double Ounces 7
	SIDE	OR UPRIGHT	TYPE	Brackets

For Rod Inches	Single Complete Each	Double Complete Each	Cranks Only Each	Brackets Only Each
1/4	\$1.25	\$1.95	\$ .35	\$ .40
16	1.50	2.25	.35	.40

Spare Sockets, see Fig. 328, Standard Type.

#### Bowden Casing Clamp

CAST BRONZE-SWIVEL TYPE-PLAIN



Will hold control casing firmly while swivel feature allows smooth sliding of control wire in casing at any angle.

Each	Size Base Inches	Weight
\$ .60	21/4×1	3

#### Elbow Ball Joints

ALL BRASS-PLAIN



Fig.	792

Each	Thread Inches	Length Threads Inches	Female End Inches	Weight Ounces
\$ .30	1/4	1/2	16	1/2

Male and female ends threaded U.S.S. 20 threads per inch.

#### Control Rod Sockets

PLAIN BRASS



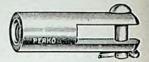


	Fig. 3	328		Fig	295	
		Sta	ndard Fi	g. 328		
		Tapped For Rod	Outside Dlam.	Overall Length	Between Jaws	Length Jaws
No.	Each	Inches	Inches	Inches	Inches	Inches
1	\$ .30	1/4	3/8	15/8	1/8	3/4
2	.35	Heav	y Duty 1	15/8 Fig. 295	78 3 16	3/4
3	.35	1/4	1/2	15/8	1/4	1
4	.35	5	1/2	15/8	1/4	11/8
	Length	n jaws r	neasured	to center	r of pin.	

#### Control Rod Sockets

EXTRA HEAVY TYPE-BRASS-PLAIN



Fig. 298

	Mad	- fuere	1/ inch ac	wave bros	hou no	
	waa		1/2 inch sq	uare bras	s rou.	
		Tapped		Overall	Between	
		For Rod		Length	Jaws	
No.	Each	Inches	Inches	Inches	Inches	
5	\$ .40	1/4	70	11/2	7.0	
6	.45	10	7	11/2	1/4	
•			measured		of pin.	

#### Control Wire Sockets

PLAIN BRASS



Fig. 679 Complete with brass cotter pin and brass set screw

Compic		DIGOD COO.	Between	Length	
400	Length	Diameter	Jaws	Jaws	Weight
Each	Inches	Inches	Inches	Inches	Ounces
\$ .35		3/8	1/8	1/2	1/2
Lengt	h iaws	measured	to center	of cotte	pin.

#### Adjustable Ball Joints

ALL BRASS-PLAIN



Fig. 793
Adjustable for wear, tension around ball increased by strong spring.

0. D.

Each \$ .50	Thread Inches	Length Threads Inches	Female End Inches	Weigh Ounce
Male and per inch.	female ends	threaded	U.S.S. 20	thread

## Steerer and Control Parts















PERKO











Fig. 865

Length For Center Extreme Diam.

No.	Each	Inches	Inches		Inches	Inches	Inches
1 2 2A	\$5.00 2.25 3.00	6	8 23/4 4	3/4	1/2 3/4	1/2	9 16 16
3 4 5	4.50	23/4	41/2	1		1/2	
4	3.50		31/2	1	3/4	1/2	16 0 16
5	3.00	13/4	3	1	3/4 3/4	1/2	16
No.	Polished Each	Length Inches	Width Inches	Outside Diam. Inches	Di	or am. od ches	Depth to Center of Bore Inches
6	\$3.75	7	11/4			1	11/8
7 8	3.75	41/2	11/4		1 0	r 11/8	11/8 21/8
8	3.50	.,.	.,,	33/4		1	
9	3.45	4	33/8	, ,		1	
10	3.25		, ,	4	10	r 11/8	41.00
11	3.75 I	Plain		43/4		1 Heig	ht 21/8
12	1.25			11/2	1 0	r 11/8	

## Bronze Universal Joints



Fig. 93

No.	Each	Bored for Rod Inches	Tapped for Pipe Inches	Extreme Length Inches	Weight Pounds
1 2	\$3.50 7.50	3/4	3/2	41/2	21/4

#### Gasoline or Oil Strainers

PLAIN BRONZE-WOVEN BRASS SCREEN

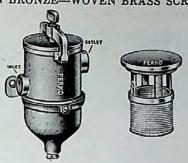


Fig. 299

With Yoke, Thumbscrew and Supporting Bracket.

Cover easily removed and the strainer removed for cleaning without disturbing pipe connections. Pipe plug in bottom for draining. Side bracket supports the strainer, relieving the fuel pipes of all weight.

Size No.	Each	Length Overall Inches	Diam. Inches	For Pipe Inches	Weight Pounds
1	\$ 6.00	51/2	23/8	1/4 or 3/8	3
1 36	8.75	61/4	31/8	3/8 or 1/2	5
2	12.00	71/4	37/8	1/2 or 3/4	7

With 20 x 100 mesh screen for gasoline.

With 24 x 24 mesh screen for oil.

Gasoline strainers supplied unless otherwise specified. With special mesh screen, price on application.

#### Intake Water Strainers

CAST BRONZE
MONEL SCREEN — LUCITE CYLINDER



Fig. 493

For installation between inlet connection and water pump to the engine.

Lucite cylinders are difficult to break even when struck with hammer. Gaskets are corprene, (neoprene and cork) waterproof and resilient.

No.	Complete Each	Pipe Size Inches	Overall Height Inches	Overall Width Inches	Weight Pounds
1 2	\$15.00 18.50	3/2	101/4	53%	71/2
3	19.50	174	101/4	53/8	71/2
4	20.00	11/4	101/4	53/8	71/3
5	32.00	11/2	131/4	9	22
6	48.00	2	19	,	22

Mounting brackets for bulkhead can be supplied as an extra.



## B. F. GOODRICH CUTLESS RUBBER BEARINGS



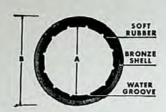


Fig. 1021

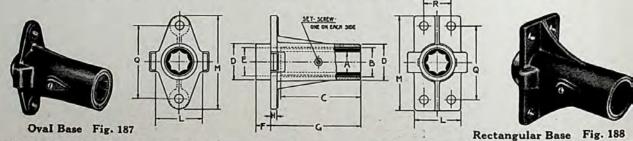
#### Often Outlast Hard Surface **Bearings 15 Times**

- · Efficiently lubricated by water.
- · Resist sand and grit.
- No scoring of shaft.
- Reduce vibration and noise.
- Least possible friction.
- · Easy to install.

#### STANDARD BEARINGS STOCK SIZES-TABLE OF DIMENSIONS, WEIGHTS AND PRICES Sizes Shown Here are in Stock for Immediate Shipment

Code	A-Shaft Diameter	B-Outside Diameter	Standard Length	Shipping Weight, Lbs.		Special Length Price per Lin. In.	Code	A-Shaft Diameter	B-Outside Diameter	Standard Length	Shipping Weight, Lbs.	Price Each	Special Length Price per Lin. In.	Code	A—Shaft Diameter	B-Outside Diameter	Standard Length	Shipping Weight, Lbs.	Price Each	Special Length
KALE		11/4"	3"	34	\$6.20	\$2.27	KITEM	.17/8"	25/8" 218"	71/2"	31/4	\$20.80		NEPHEW	35%"	41/2"	141/2"	1234	\$53.60	\$4
KATY		136° 132°	31/2"	134	7.20 7.20	2,27 2,27	KITEZ KITH KNAVE	.2"	218" 25%" 3"	7½" 8"	4 31/4 41/4	20.80 21.80 21.80	3.30	NERVE	3%	4½" 5" 5¼"	15" 15" 15"	101/2 173/4 18	59.50 69.50 69.50	44
KAYAK KEFER KEEPER	.1"	11/4" 15/8" 2"	4" 4"	11/2	8.30 8.30 8.30	2.38 2.38 2.38	KNIT KNOB	.21/8"	211 " 318"	81/2" 81/2" 9"	41/4 43/4 41/4	23.50 23.50 25.40	3.30	NEWELL NIBBLE NIBBLED.	37/8"	5½" 5" 5½"	15½" 16" 16"	20 28 29½	63.60 68.40 68.40	5 5
KERSEY KERNY	11/6"	15%" 134" 2"	41/4" 41/4" 41/4"	11/4 11/4 11/4	9.80 9.80 9.80	2.44 2.44 2.44	KORAN KUMISS	.214"	2H*" 3½" 3¾" 3¾"	9" 9" 914"	5 6	25.40 25.40 27.30	3.36 3.36	NIBBLING NICETY	41/8"	51/4" 51/2"	16½" 17"	31 291/2	71.60 74.40	5
KIDNAP KIANO KIDNEY			5"	134	11.20 11.20	2.50 2.50	NAKED	.21/2"	31/8"	10" 10"	5	28.20 28.20	3.44 3.44	NICHE NICK NIGGARD.		534" 512" 534"	17½" 18" 18"	331/4 331/4 35	77.80 82.00 82.00	5
KIDNEY			53/9"	2	11.20	2.66	NATURE		33/4" 33/4"	10½" 11" 11"	5¾ 5¾ 6	30.80 33.40 33.40	3.56 3.56	NIGGARDI NIGHLESS. NIGHTLY.	Y45%"	61/8" 61/8" 61/8"	18½" 19" 19½"	39 4334 43	89.40 96.30 101.20	5
KINDLE	13/8"	11/6" 21/8" 23/8" 2"	53/2" 53/2" 53/2"	21/4 21/2 2	12.40 12.40	2.66 2.66 2.78	NAVAL NAVY NECK	.3"	3¾" 3¾" 4"	11½" 12" 12"	634 8 814	34.70 36.80 36.80	3.66	NIGHT	5"	61/8"	20" 20" 21"	45 5014 8014	106.60 106.60 118.30	6
KINE. KINGDOM	114"	23/8"	6"	21/2	14.30	2.78	NECKING	.31/8"	41/4"	121/2"	81/2	39.60		NOBODY		7"	211/2"	75	124.00	
KINKY KINSHIP	15%" 15%"	2½8" 25/8"	614"	314	16.70 16.70	3.02 3.02	NECTAR NEGATIVE. NEGLECT	.31/4"	41/4"	13" 13" 13½"	91/4 10 103/4	42.60 42.60 46.00	3.86	NOBUR NOMAD NOMAR	51/2"	7"	227° 221⁄2"	65 70	129.20 134.50	
KIP		23/6" 25/6"	7° 7"	23/4 31/4	18.90 18.90	3.16 3.16	NEGRO NEIGHBOR	31/2"	41/2"	14" 14"	10	49.10 49.10	4.14 4.14	NONAGE	. , 6"	777	23" 24"	6234 70	140.20 156.00	7
To obtain	price	of b	earing	length	s othe	er than	standard, mu	ltiply	lengt	h in in	ches b	y price	e per lin	eal inch giver	in th	is colu	ımn.			

#### STERN CASTINGS COMPLETE WITH CUTLESS RUBBER BEARINGS, OVAL AND SQUARE BASE



Prices and dimensions of larger sizes furnished on request. When ordering, it is only necessary to give pattern number. Holes in flanges drilled unless otherwise specified.

The advantages of this type of bearing are many. The castings are made of high-grade bronze of heavy construction, and will last as long as the boat. They are not to be confused with some of the light, flimsy constructions often sold at a price.

The flanges correspond in sizes with the usual bronze and babbitted bearings of this type. The P. F. Goodrich Cutless Bearing can be easily removed from the main casting by taking out the set screws.

No vibration. Sand or silt is carried out without injury to shaft or bearing.

No attention or adjustment necessary. These bearings are provided with scoops for water lubrication and no additional scoops or other provisions for water supply are necessary.

TABLE OF DIMENSIONS AND PRICES

			100		٠.	-	4		W.C.	~!12			i i	Price
	ensio Cutles	35	Ord	1000		ern Nu				Pat. No.	Drilled for	No.	Drilled for	Com- plete with
A	Bearin B	C	D	Ė	F	G	н	L	M	Sq. Base	Bolts, Ins.	Oval Base	Bolts, Ins.	Cutles Bearing
KAKAK AK	11/2/2	3 31/4 4 41/4 5 51/4	15/28 X8/25/25/25/25/25/25/25/25/25/25/25/25/25/	11/2/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1	NANA SERVICE	31/2 4 1 1/5 55/8 1/4 61/4	*****	21/8 23/8 21/2 23/4 31/4 31/4	43/4 43/4 5 53/4 6 63/4 7	B-1 B-2 C-2 C-3 C-5 C-5 C-5 C-5	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	B3 B4 C5 C5 C5 C5 C5 C5 C5 C5 C5 C5 C5 C5 C5	**************************************	\$13.40 13.60 13.70 16.40 18.90 21.40 27.00
134 2 2 2 2 2 2 3 3	25/8 31/8 33/4 33/4 4	7 8 9 10 11 12	3334 XX	221/8 3 35/8 33/8 33/8	11/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/	71/8 81/6 10 11 12 13	XXXXXXXXXXX	45/4 55/4 55/4 55/4 55/4 55/4 55/4 55/4	8 914 1012 1114 1234 14	C-6 C-7 C-8 E-20 E-21 E-22	Transports 1	C4 C5 C6	- : MAN	35.86 43.76 65.66 64.86 79.00 93.00

#### Stuffing Boxes

CAST BRONZE-REGULAR



Fig. 320

Shaft Size Inches	Each	Size Flange Inches	Diam. Bolt Inches	Bolt Holes Inches	Length Bearing Inches	Weight Pounds	
5/6	\$2.75	37/8×13/4	5 16	25/8	21/8	1/8	
3/4	2.85	4 x13/4	3/8	25/8	21/8	11/8	
1/8	2.95	41/8×17/8	7 16	3	25/8	11/2	
1	3.50	41/4×21/8	7 16	3	25/8	13/4	
11/8	4.00	47/8×21/8	1/2	35/8	21/8	21/4	
11/4	4.75	53/4x23/8	1/2	4 16	21/8	3	
13/8	5.50	61/4×3	1/2	43/4	3	3/4	
11/2	6.25	61/2×3	1/2	5	3	31/2	
13/4	9.75	7 x33/4	3/8	51/2	4	574	

#### Stern Bearings

CAST BRONZE-REGULAR



Fig. 321

Shaft Size Inches	Each	Size Flange Inches	Diam. Bolt Inches	Bolt Holes Inches	Length Bearing Inches	Weight Pounds	
3/8	\$1.35	37/8×13/4	16	25/8	21/8	3/4	
3/4	1.50	4 x13/4	3/8	25/8	21/8	3/4	
7/8	1.65	41/8×17/8	76	3	25/8	1	
1	1.85	41/4×21/8	7.6	3	25/8	11/4	
11/8	2.25	47/8×21/8	1/2	35/8	21/8	11/2	
11/4	2.75	53/4×23/8	1/2	4 16	21/8	2	
13/8	3.50	61/4×3	1/2	43/4	3	21/4	
11/2	3.90	61/2×3	1/2	5	3	21/2	
13/4	5.50	7 x33/4	3/8	51/2	4	33/4	

#### Stuffing Boxes and Stern Bearing

THREADED FOR PIPE—CAST BRONZE



Fig. 711



Fig. 712

	100	-			for
Size Shaft Inches	Stuffing Box Each	Stern Bearing Each	Size Flange Inches	Tapped for Pipe Inches	Fasten- ing Inches
3/4	\$3.65	\$2.30	4 x21/8	3/4	3/8
1/8	3.80	2.50	43/4×27/8	1	1,6
1	4.40	2.75	43/4×27/8	1	10
11/8	4.95	3.20	53/4×3	11/4	1/3
11/4	5.75	3.75	6 x3	11/4	1/2
13/8	6.50	4.50	6½x35/8	11/2	1/3
11/2	7.35	5.00	63/4×33/4	11/2	1/2

#### Stuffing Boxes and Stern Bearings

CAST BRONZE-HEAVY



Fig. 631



Fig. 632

Shaft Size Inches	Fig. 631 Each	Fig. 632 Each	Size Flange Inches	For Diam. Bolt Inches	Holes	Length Bearing	Fig. 631 Weight Pounds
1	\$6.75	\$3.50	53/4×3	1/2	45/8	41/2	41/2
11/8	7.00	4.00	63/8×31/4	1/2	51/4	41/2	5
11/4	8.00	4.75	7 x31/2	2 7	55/8	43/4	61/2
13/8	9.00	6.00	75/8×33/4	5/8	61/4	51/4	71/2
11/2	10.75	7.00 .	8 x4	5/8	61/2	57/8	9
13/4	15.25	9.75	91/8×4	3/4	71/2	7	111/2
2	18.00	12.50	101/8×41/2	3/4	85/8	75/8	12

#### Extra Heavy Stuffing Boxes

RECTANGULAR FLANGE-CAST BRONZE

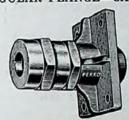


		Fig. 81	19		
Shaft Size Inches Each	Size Flange Inches	For Diam. Bolt Inches	C, to C. Bolt Holes Inches	Length Bearing Inches	Weight Pounds
1 \$7.75	5 x3	1/2	33/4×13/4	4	51/2
11/8 8.25	51/2×33/8	1/2	41/4×21/4	41/4	61/2
11/4 9.00	55/8×35/8	1/2	43/8×21/4	43/4	7
13/8 10.00	6 x4	1/2	4 Tax 21/2	5	9
11/2 12.00	6 x43/8	1/2	41/2×3	51/2	10
13/4 17.00	61/2×41/2	5/8	51/8x31/4	7	131/2
2 20.00	73/4×5	5/8	57/8×33/8	73/8	151/2

#### Extra Heavy Stern Bearings

RECTANGULAR FLANGE—CAST BRONZE

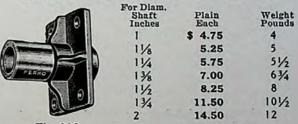


Fig. 906

All other dimensions same as fig. 819 above.

NOTE—LENGTH BEARING SHOWN DOES NOT INCLUDE PACKING NUT OR SPACE FOR PACKING.



## Self Aligning Stuffing Boxes CAST BRONZE—RECTANGULAR FLANGE

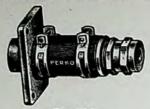


Fig. 734

A cast bronze base and stuffing box joined by heavy rubber hose and extra strong hose clamps.

No. 1 2	Each \$ 8.50 12.00	For Size Shaft Inches 3/4-7/8-1 11/8-11/4 13/8-11/2	Size Flange Inches 5x3 1/4 6x4 1/4 7x4 1/2	Length From Flange to End of Box Inches 63/4 73/4 83/4
3	15.00	13/8-11/2	/x4/2	0 3/4

#### Flax Packed Stuffing Boxes and Stern Bearings

WITH RECTANGULAR OR OVAL FLANGE



RECTANGULAR FLANGE-Fig. 811 OVAL FLANGE-Fig. 821

Shaft Size	2.4	Size Flange	Length Bearing
Inches	Each	Inches	Inches
1	\$ 8.80	51/4×25/8	51/4
11/8	10.00	6 x3	53/4
11/4	11.25	65/8×3 16	61/4
1%	12.25	71/4×35/8	63/4
11/2	18.00	8 x4	73/4
1%	28.00	91/4×45/8	9
2	38.00	101/2×51/4	9 18
21/4	43.50	12 x6	111/8
21/2	53.50	131/4×65/8	121/4
3	90.00	16 x8	15
31/2	136.00	181/2×91/4	17

## Midget Adjustable Strut CAST BRONZE—FOR SMALL INBOARD ENGINES



Fig. 660

Maximum drop is 5 inches, can be reduced to 3 inches.

to any angle	or snart.		
Diam.	Size of	Length	
Shaft	Base		Weigh
Inches	Inches		Pound
5/e or 3/4	31/4-21/4	21/4	2
	Diam. Shaft Inches	Shaft Base	Diam. Size of Length Shaft Base Bearing Inches Inches Inches

#### Adjustable Struts

ALL CAST BRONZE MARINE BABBITT BEARING

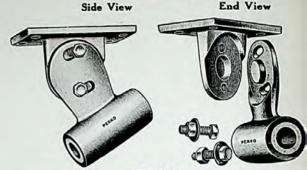


Fig. 628

Adjustable to any practical angle of the propeller shaft, held fast at necessary angle by two heavy bronze bolts, bearing is of a special marine babbitt the highest grade obtainable. Length of drop is figured from better of least to contain the state of the state o from bottom of keel to center of shaft.

	Size Sh Inche 3/4, 7/8, 11/4, 13/8	es 1, 11/8	Width Flang Inches 3 3½	e Fla	inge I	length Bearing Inches 41/8 41/2	Bolt Inches
Lgt			et.	e Shaft I	nches -		
Dro		7/8	1	11/4	11/4	13%	11/2
5	\$13.50		\$13.50	\$13.50			and the state of
6	13.75	13.75	13.75	13.75	\$19.00	\$22.00	\$22.00
7	14.25	14.25	14.25	14.25	19.50	22.50	22.50
8	14.75	14.75	14.75	14.75	20.00	23.00	23.00
9	15.25	15.25	15.25	15.25	20.50	23.50	23.50
10	15.75	15.75	15.75	15.75	21.00	24.00	24.00
11	16.50	16.50	16.50	16.50	21.75	24.75	24.75
12		100000	-	18.00	23.25	26.25	26.25
Spe	cify Siz	e Shaft	and Le		Drop,	When C	Ordering

#### Adjustable Struts

FOR GOODRICH RUBBER BEARING CAST BRONZE-EXTRA HEAVY

Size Shaft Inches	Width Flange Inches	Length Flange Inches	Length Bearing Inches	
3/4	3	51/2 51/2	3 1/2	
111/8	3	51/2 51/2	4 41/2	
11/4	31/2	61/2	5 1/2	(60)
11/2	31/2	61/2	6	

Prices below do not include rubber bearing. For bearings see page 88, Fig. 1021. Use bearings having the smallest outside diameter

In	. (		Siz	e Shaft I		1.0/	136
	%	7/8	1	11/8	11/4	1%	
5	\$18.50	\$18.50	\$18.50	\$18.50	\$25.75	\$28.75	\$28.1
6	18.75	18.75	18.75	18.75	26.00	29.00	29.0
7	19.25	19.25	19.25	19.25	26.50	28.50	29.5
8	19.75	19.75	19.75	19.75	27.00	30.00	30.0
9	20.25	20.25	20.25	20.25	27.50	30.50	30.5
Ó	20.75	20.75	20.75	20.75	28.00	31.00	31.0
11			200		28.75	31.75	31.7
12					30.25 Drop,	33.25	33.2

## Perkins Marine Lamp & Hardware Corp.

#### Midget Self Aligning Shaft Log

CAST BRONZE-FOR SMALL INBOARD ENGINES



Fig. 695

Stuffing box and base are connected by heavy rubber hose to take up vibration and whip. Base is undrilled to allow drilling as required.

No.	Each	Size Shaft Inches	Size Base Inches	Length Overall Inches	Degrees of Pitch	Weight Pounds
0	\$7.25	5/8	93/8×21/2	15	10	33/4
1	7.50	5/8 3/4	93/8×21/2 93/8×21/2	-15	10	33/4

This unit uses stuffing box Fig. 672 size 0 reamed out for either % or % inch shaft.

#### Adjustable Shaft Logs

CAST BRONZE-EXTRA HEAVY

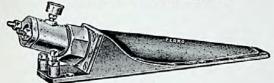


Fig. 627

Furnished complete with grease cup and rubber gasket for installing.

No.	Each	Size Shaft Inches	Length Base Inches	Width Base Inches	Weight
1	\$21.00	3/4	16	31/2	14
2	21.50	1/8	16	31/2	14
3	22.00	1,0	16	31/2	14
4	31.00	11/8	22	41/4	19
5	31.50	11/4	22	41/4	19
6	47.00	13/8	26	5	30
7	47.50	11/2	26	5	30
8	62.00	13/4	28	51/2	57
9	62.50	2	28	51/2	57 57

#### Adjustable Shaft Logs

CAST BRONZE



Fig. 577

Cast Bronze Ball and Socket arrangement gives ample adjustment in all directions.

Range of adjustment between 12 and 25 degrees. Flange bolts are locked with set screws.

No.	Each	Size Shaft Inches	Length Overall Inches	Length Base Inches	Width Base Inches	Wt. Lbs.
1	\$16.50	3/4	173/4	14	35/8	11
2	16.50	1/8	173/4	14	35/8	11
3 4	16.50	1,0	173/4	14	35/8	11
4	27.50	11/8	25	20	41/2	21
5	28.00	11/4	25	20	41/2	21
6	43.00	13/8	281/2	23	51/4	28
7	43.50	11/2	281/2	23	51/4	28

#### Self Aligning Shaft Logs

CAST BRONZE ALLOWS INSTALLATION OF ENGINE WELL AFT



Fig. 589

Stuffing box and shaft are cushioned in rubber, reducing vibration in the hull to a minimum and eliminating excessive wear on shaft and bearing.

Furnished without screw or bolt holes to allow drilling as required.

No.	Each	For Size Shaft Inches	Size Base Inches	Length Overall Inches	Degrees of Pitch	Wt.
0	\$7.25	5/8	8x4	9	14	2
1	10.50	3/4	10x5	111/4	14	51/2
2	11.00	3/4 7/8	10x5	iii	14	512
3	11.50	1′°	10x5	111/4	14	51%

#### Self Aligning Shaft Logs

CAST BRONZE



Fig. 671

Stuffing box and base are connected by heavy rubber hose to take up vibration and whip.

No.	Each	Size Shaft Inches	Size Base Inches	Length Overall Inches	Angle in Degrees	Wt.
1	\$11.00	3/4	12x31/2	18	11	7
2	11.50	1/8	12x31/2	18	11	7
3	12.00	1	12x31/2	18	11	7
4	17.00	11/8	17x41/4	231/2	11	12
5	19.00	11/4	17x41/4	231/2	11	12
6	26.00	13/8	19x5	28	11	20
7	27.00	11/2	19x5	28	11	20

STUFFING BOX AND EXTRA RUBBER HOSE FOR SELF ALIGNING SHAFT LOG AND STUFFING BOX







		Fig. 67	72	Fig. 1092		Fig. 673	
For Log No.	Size Shaft Inches	Box Each	Hose Each	Hose Clamps Per Pair	I. D. Hose Inches	O. D. Hose Inches	Length Hose Inches
0	5/8	\$2.50	\$ .55	\$ .60	11/4	13/4	31/4
1	3/4	3.00	.80	.90	13/4	23/8	4
2	1/8	3.50	.80	.90	13/4	23/8	4
1 2 3	1	4.00	.80	.90	13/4	23/8	4
4 5	11/8	5.00	1.25	1.50	23/8	3	5
5	11/4	6.00	1.25	1.50	23/8	3	5
6	13/8	8.00	2.10	2.00	25/8	31/2	5
6	11/2	9.00	2.10	2.00	25/8	31/2	5

# 92 Perkins Marine Lamp & Hardware Corp.



### Thrust Ball Bearings

Bronze Retainers







Fig. 786			Fig. 94	12
Shaft		771 040	Diameter Inches	Thicknes
Inches	Fig. 786	Fig. 942 Each	Outside	Inches
Diameter	Each	\$1.00	1 11	1
2/8	\$1.10		32	100
3/4	1.20	1.10	1 52	1.0
5%	1.25	1.15	1 31	2∕8
1	1.30	1.25	1 31	₹8
11/6	1.45	1.35	$2\frac{3}{32}$	₹8
i12	1.55	1.40	2 11	5∕8
i 3%	1.90	1.75	2 13	3/8
ií	2.00	1.85	2 19	5∕8
15%	2.50	2.20	$2\frac{31}{32}$	13
13%	2.75	2.20	$3\frac{3}{32}$	13
2	3.20	2.85	3 11	18
21/4	3.60	3.10	3 33	15
21/2	4.50	3.60	3 31	13

#### Safety Shaft Collars

CAST SEMI STEEL-MACHINED



Fig. 787

Shaft Size Inches	Each \$ .40	Outside Diameter Inches
3/4	.45	j 20
1/8	.45	1 11
1	.55	1 18
11/8	.60	2
11/4	.70	2 5
13/8	.75	2 1
11/2	.80	2 10 3
1 3/4	1.30	
2	1.50	33/8

#### Thrust Ball Bearings

GROOVED RACES STEEL RETAINING BAND



Fig. 943

MIMING	DAME	
Diam. Shaft		Outside Diam.
Inches	Each	Inches
5/8	\$1.20	1 11
3/4	1.40	1 15
1/8	1.50	1 33
1	1.60	1 31
11/8	1.70	2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
11/4	1.80	2 11
13/8	2.00	$2\frac{15}{32}$
11/2	2.20	$2\frac{19}{32}$
15/8	2.90	$2\frac{31}{32}$
13/4	3.10	$3\frac{3}{32}$
2	3.80	3 11
21/4	4.40	3 33
2 21/4 21/2	5.50	3 31

#### **Shaft Couplings**

CAST IRON



Fig. 327

No.	Each	Size Shaft Inches	Diam. Flange Inches	Overa Inche
1	\$4.25	% to 11/8	4	31/2
2	4.50	3/4 to 11/2	41/2	41/8
3	5.75	11/8 to 11/2	5	43/4
4	8.75	1 to 2	6	61/2
				100000

#### Flat Bearings

BABBITTED



For	F	ig. 789	
Shaft Size Inches	Each \$1.65	Size of Base Inches 2 x51/4	C. to C. Bolt Holes Inches
1/8	1.75 1.75	23/4×53/8	4
11/6	2.25	33/8×6	43/4
13%	2.25 2.80	33/6×6 37/6×7	43/4
132	2.80 3.75	37/8×7	51/3
2	5.00	43/4×71/2	61/8

For divided sizes such as 1 x 11/8, add \$1.00 each. For special boring, not listed, add \$2.00 each.

For ½ coupling add \$ .50 to half of above prices. I bolts furnished.

SIZE OF	KEYWAY IN	SHAFT COUP	LINGS
Size Shaft	Keyway	Size Shaft	Key
Inches	Inches	Inches	Inc
174-178	116	13/8-11/2	7
1 -1/8	/4	1/8-1/4	.1

#### Bras



11/4

SS	Grease	Cu	ps	1
No. 1 2 3	Height Inches  1 16 1 38 2 3 16	Inside Diam. Inches	Pipe Thread Inches	Capaci Ounce
	No	E	ach	

.40

#### Maxim Silencers

WET TYPE-MODEL M3 CAST IRON



Fig. 334

For Exhaust Pipe Inches	•Fig. 334 Each	**Fig. 334-A Each	***Fig. 334-B Each	Diameter Inches	Length Overall Inches
11/2	\$ 12.75	\$ 11.50	\$ 10.00	43/4	93/4
2	15.50	13.75	12.00	61/4	11
21/2	21.00	18.50	16.00	7 <del>13</del>	123/8
3 1/2	26.00 35.00	23.00 32.00	20.00 29.00	9 16	131/2
5	39.00	36.00	33.00	123/8	153/4
	104.00	95.00	86.00	14	23
	149.00	138.00	127.00	14 15	271/2

*Fig. 334 has both ends flanged.

**Fig. 334-A has one end flanged, other end tapped.

***Fig. 334-B has both ends tapped.

Use same size Silencer as diameter of Exhaust Pipe.

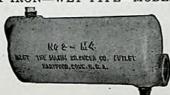
Used with equal success on Diesel as well as gasoline engines.

Designed to take all the cooling water discharge from the engine making unnecessary any other water dis-charge through the hull. Can be installed practically anywhere in the exhaust line that is convenient, either near the engine or near the stern, however a two foot tail pipe at the silencer outlet will give best results.

Maxim silencers are available for dry exhausts of gasoline and Diesel engines. Give bore, number of cylinders, R. P. M. and exhaust size.

#### Maxim Silencers

CAST IRON-WET TYPE-MODEL M-4



Admirably suited to the line of small engines being presented to the field at the present time for the propulsion of small boats and for use with generating units in larger vessels.

Similar in construction to model M-3 and installed in like fashion.

Exhaust Pipe Inches	Each	Diam. Inches	Length Overall Inches	Weight Pounds
1/2	\$5.00	314	73/4	4
3/4	6.00	31/5	81/4	5
1	7.00	33/4	9	6
11/4	8.00	41/4	91/2	10

#### Exhaust Pipe Flanges CAST BRONZE



		. 417	
For Pipe	Inside Diameter	Outside Diameter	Weight Each
nches	Inches	Inches	
2	23/8	41/8	13 oz.
21/2	21/8	51/4	1 lb.
2½ 3	31/2	61/4	11/2 lbs.
31/2	4	67/8	11/2 lbs.
	Plain	Polished	Chromium
	Bronze	Bronze	Plated
Size	Each	Each	Each
2	\$1.20	\$1.90	\$2.40
2 1/2 3	1.45	2.10	2.60
3	1.70	2.65	3.25
31/2	1.80	2.75	3.50

#### **Exhaust Tube Flanges**

CAST BRONZE



Fig. 738

For Tubing Inches	Inside Diam. Inches	Outside Diam. Inches	Weight Each
2	2 1 6	4	ll oz.
21/2 3 31/2 4	2 16	43/8	14 oz.
3	. 3 16	5	1 lb.
31/2	3 0	51/2	11/2 lbs.
4	4 16	6	11/2 lbs.
•	Plain	Polished	Chromium
	Bronze	Bronze	Plated Each
Size	Each	Each \$1.65	\$2.15
2	\$ .90		2.40
31/2	1.20	1.90	
3	1.45	2.10	2.60
31/4	1.70	2.65	3.25
31/2	1.80	2.75	3.50

#### Gy-A-Liner Engine Aligners CAST IRON-PAINTED

Patent No. 2123484



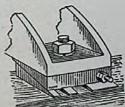


Fig. 1097

Consists of two cast iron wedges adjusted by a galvanized bolt to various heights as required.
Suitable for all light and medium weight engines.

Each	Size Inches	Engine Bolt Inches	Inches	Adjustment		
\$1.25	$2\frac{1}{2} \times 2\frac{1}{2}$	1/2	3/8	16	74	

# 94 Perkins Marine Lamp & Hardware Corp.



#### Wrought Brass Fog Bells

PRESSED BELL METAL



Diameter	6 in.	8 in.
Hgt. overall	4 in.	5 in.
Extension	7% in.	8% in.
Weight	1 lb.	21/2 lbs.

Fig. 159

Diam. Inches	Plain Brass Each	Polished Brass Each	Chromium Plated Each
6	\$2.75	\$3.25	\$4.50
8	4.00	4.50	6.00
Wall Plates only	.50	.60	.90
Arms only	.95	1.10	1.50

#### Cast Bronze Fog Bells

LIGHTWEIGHT

Cast from bell metal. With removable bracket.

Diameter	6 in.	8 in.
Hgt. overall	41% in.	5¼ in.
Extension	6½ in.	8½ in.
Weight	3 lbs.	5 lbs

B		
Diam. Inches 6 8	Polished Each \$7.00	Chromium Plated Each \$10.00
0	9.75	12.75



MEDIUM WEIGHT

Cast from high grade bell metal. Highly polished detachable bracket.

Diameter	6 in.	8 in.
Hgt. overall	5 in.	61% in.
Extension	6% in.	81/2 in.
Weight	4 lbs.	8 lbs.

Fig. 420

Diam. Inches	Polished Each	Chromiun Plated Each
6	\$ 8.75	\$11.75
8	14.50	17.50



#### HEAVY WEIGHT

Cast from extra heavy bell metal. Complete with removable bracket.

Bottom Diam.	Polished	Fig. 150 Chromium Plated	Height	Projection	Weigh
Inches	Each	Each	Inches	Inches	Pound
8	\$23.50	\$28.50	8	9	10
10	45.00	52.00	101/2	12	22
12	60.00	69.00	12	13	38

#### Cast Fog Bell

MEDIUM WEIGHT-WITH YOKE



Fig. 386

Diam. Inches	Polished Each	Chromium Plated Each	Height Overall Inches	Weight Pounds
6	\$10.50	\$14.50	71/4	4
8	16.50	21.00	9	9

#### Fog Horns

WITH ADJUSTABLE REED GALVANIZED STEEL OR BRASS



Fig. 162

These horns have a patented slide on the reed which controls the tone. Very easy to adjust or tune.

Length Overall Inches		Galv. Steel Per Doz.	Pol. Brass Per Doz.
18	Without Bell	\$15.00	\$24.00
20	With Bell, as illustrated	18.00	28.00
24	With Bell, as illustrated	21.00	32.00

#### Triplex Motor Boat Whistle

ALL BRASS-NICKEL PLATED WITH CHAIN AND BUTTON RING

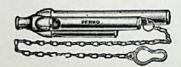


Fig. 168

Per Dozen	Length Overall Inches	Diameter Inches	Length Chain Inches	Weight Per Dozen Pounds
\$12.00	53/4	11/8	12	21/4

#### Two Tone Signal Horns



Fig. 165

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

Length	Polished	Chromium
Overall	Brass	Plated
Inches	Each	Each
10	\$4.00	\$5.75

#### Skene Bulwark Bow Chocks

CAST BRONZE

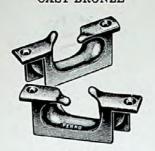


Fig. 751

Lgth. In.	Plain Bronze Pair	Pol. Bronze Pair	Chrom. Plated Pair	For Diam. Rope Up to Inches	Thick- ness of Rail Inches	Height Inches	Wt. Pair Lbs.
6	\$3.75	\$5.75	\$8.25	1	11/4	21/4	23/4
7	6.00	8.00	10.50	11/4	11/2	23/4	41/4

#### Skene Bulwark Stern Chocks

CAST BRONZE



Fig. 752

Lgth. In.	Plain Bronze Pair	Pol. Bronze Pair	Chrom. Plated Pair	Diam. Rope Up to Inches		Height Inches	Wt. Pair Lbs.
6	\$3.25	\$4.50	\$6.00	11/4	11/2	23/4	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 through the bulwark and the deck.

No.	Bronze Per Pair	Plated Per Pair	Length Inches	Overall Inches	Height Inches	Rope Inches
1	\$9.50	\$11.75	10	1	17/8	1
2	12.00	14.50	111/4	11/4	21/4	11/4
3	14.00	17.00	111/4	11/2	21/2	11/2

#### Skene Bow Chocks

CAST BRONZE



Fig. 160

Size No.	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Inches	Width Inches		Weight Per Pair Pounds
1 2	\$ 2.20 3.30	\$ 3.40 4.65	51/2	1 3 19	3/4	11/2
3 4 5	5.50 7.75 11.50	7.00 9.50 13.75	73/4 81/2 101/2	15/8	11/2	5 8

#### Skene Stern Chocks

CAST BRONZE



Fig. 161

Size No.	Polished Bronze Each	Chromium Plated Each	Length Inches		Opening Inches	Weight Each Pounds
11 12 13 14	\$ 1.00 1.65 3.50 6.50	\$ 1.50 2.50 4.50 8.00	4 5½ 7 9	7/8 13/8 13/4 21/4	5/8 111/2 2	1 2 4

#### **Bulwark Stern Chocks**

CAST BRONZE-POLISHED



Fig. 769

No.	Polished Bronze Each	Chromium Plated Each	Length Inches	Width Overall Inches	Height Inches	Size of Rope Inches	
1 2	\$ 6.50 8.00	\$ 7.75 9.50	91/4	13/8	25/8 3	13/4	

#### **Awning Cleats**

GALVANIZED MALLEABLE IRON



Fie. 927

Length Inches	Per 100 Pieces	Weight Per 100 in Lbs.
41/2	\$ 5.00	43/8
41/2.	7.25	83/4
8	11.00	133/4



#### Comb. Bitt and Rope Deck Pipes

CAST BRONZE



Fig. 431

A hollow one piece casting of minimum weight but maximum strength. An opening in one side of bitt to allow rope to be stored below deck but always ready for use.

No.	Polished Bronze Each	Chromium Plated Each	Size Base Inches	Height Inches	For Diam. Rope Inches
1	\$5.50	\$ 6.75	41/2×41/2	31/2	3/4
2	10.50	13.00	6 x6	5	

#### Mooring Bitts

CAST BRONZE



Fig. 608

No.	Size Base Inches	Height Inches	Weight Lbs.
1	3 x3	21/2	7/8
2 3	41/2×41/2	31/2	17/8
3	6 x6	5	55/8
4	7 x7	61/2	12
No.	Polished Bronze Each		Chromium Plated Each
1	\$ 3.60		\$ 4.80
2	4.80		6.00
2 3	9.60	-	12.00
4	14.00		16.50

#### Riding Bitts

GALVANIZED CAST IRON



			Fig. 926		
Size No.	Galv. Each	Height Inches	Size Base Inches	Bored for Bolt Diam. Inches	Weight
00 01 1 11/2 2	\$2.00 2.40 3.50 4.10 7.45 10.25	31/2 41/2 53/4 63/4 81/4	2½x2½ 3 x3 3½x3½ 5 x5 5½x5½ 5½x7½	1/4 1/6 3/8 1/2 5/8 5/8	2 4 7 9 12 25

#### Rope Deck Pipes

GALVANIZED CAST IRON OR CAST BRONZE



Fig. 741

No. 1 2	For Diam. Rope Inches 3/4 & 1 1 1/4	Inside Diam. Inches 13/4 21/8	Diam. Flange Inches 35/8 43/4	Height Above Deck Inches 17/8 2
No.	Galvanized Each	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
1 2	\$2.50 3.75	\$5.00 6.25	\$6.50 8.00	\$7.75 9.25

#### Lifting Handles

CAST BRONZE



Fig. 186

Length	Height	Width	Opening
Overall	Inches	Base	Inches
Inches	2	Inches	33/4x11/2
	Polished Bronze Each \$1.30		Chromium Plated Each \$2.00

#### Lifting Rings and Keel Plates

CAST BRONZE



Fig. 415



Fig. 446

Keel plate is fastened to inside of keel by bolts and connected to ring on deck by tie rod.

		Fig. 4	15		1
Polished Bronze Each \$3.00	Chromium Plated Each \$3.75	I. D. Eye Inches	Stock in Eye Inches	Threaded for Rod Inches 5/8	Flang Inche 3x21/
		Fig. 4	46		

	Fi	g. 446		
Each	Size Base Inches	Height Inches	Threaded for Rod Inches	Weight Oz.
\$1.10	3x13/8	11/2	5/8	7



#### **Bow Plates**

CAST BRONZE



Fig. 181

Combination Bow Plates

CAST BRONZE

Polished	
Bronze	
Each	
£1 35	

Chromium
Plated Each
\$2.10

Polished

Each

\$3.25

No.

u	m	
)		

Size Plat Inches	e
41/8×43/8	3

Diam. Eye Inches	Wel
3/4	10

ght

Diam. Rope Inches

Up to 5/8 Up to 1

Width

## Ring on Plate GALVANIZED DROP FORGED STEEL



late

No.	Galvanized Each	Size Ring Inches	Size P		
1	\$ .70	5x11/2	2 x2		
2	.80	3/4×2	21/4×2		

Ring on Plate
CAST BRONZE—STREAMLINE PATTERN



		* *5			
No.	Polished Bronze Each	Chromium Plated Each	Length Base Inches	Width Base Inches	Size of Ring Inches
1 2	\$1.00 1.20	\$1.50 1.70	23/4	11/2	12x1/4 1/4x1/2

## Rings with Straps

Fig. 543

Length Inches

Chromium Plated

Each

\$4.25

GALVANIZED MALLEABLE IRON OR CAST BRONZE-HEAVY PATTERN



Fig. 1020

Size No.	Galv.	Plain Bronze Each	Polished Bronze Each	Chrom. Plated Each	Size Ring Inches	Size Strap Inches
1	\$ .40	\$ .55	\$ .90	\$1.40	1/4×11/2	41/8×3/4
2	.45	.65	1.00	1.50	5x13/4	41/8×3/4

#### Fender Hooks

GALV. MALLEABLE IRON OR BRONZE



No.	Galv.	Plain Bronze Each	Polished Bronze Each		Diam. Inches	Inches
1 2	\$ .30 .45	\$ .35 .60	\$ .45 .75	\$ .80 1.15	16 1/2	15/8×11/4 21/4×11/4
						A COLUMN TO THE REAL PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS OF T

Note-No. 1 size is drop forged bronze, No. 2 cast bronze.

## Ring and Deck Strap



Fig. 183

Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Size Ring Inches	Length Strap Inches	Strap
\$ .55	\$ .90	\$1.40	1/4×11/2	3	3/8
			•		

#### Straps only, deduct \$ .20 each.

#### **Bow Eyes** CAST BRONZE



		Fig. 30	13	
No. 1 2	Metal in Eye Inches	Length of Straps Inches 13/4 25/8	Extreme Length Inches 3	Inside Diam. Eye Inches
No. 1	Plain Bronze Each \$ .55		Polished Bronze Each \$ .85 1.05	Chromium Plated Each \$1.25 1.50

# 100 Perkins Marine Lamp & Hardware Corp.



#### Ribbed Socket Rowlocks

GALVANIZED-CAST IRON



Fig. 638

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$ .40	\$ .25	\$ .20	13/4	11/8 11/4 13/4
1	.50	.35	.20	2	11/4
2	.70	.50	.30	21/4	13/4

#### Standard Socket Rowlocks

GALVANIZED MALLEABLE IRON



Fig. 639

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$ .70	\$ .55	\$ .25	13/4	11/8
1	.70	.55	.25	2	11/4
2	1.00	.80	.35	21/4	13/4
3	1.50	1.20	.50	21/2	25/8

#### North River Rowlocks GALVANIZED MALLEABLE IRON



Fig. 643

Fig.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Wels Per I Pour
643	\$ .75	\$ .60	\$ .25	21/8	
644	.95	.60	.45	21/8	11/2

#### Davis Pattern Rowlocks

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 641

Size	Galv.	Plain Bronze	Polished Bronze	Opening	Weight Per Pair
No. 0	Per Pair \$1.35	Per Pair	Per Pair	Inches	Pounds
1	1.40	\$2.35	\$3.85	13/4	2
2	2.10			21/4	23/4

#### Round Socket Rowlocks

GALVANIZED IRON



Fig. 642

GALVANIZED MALLEABLE IRON

	W				
Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Inside Diam. Inches	Weight Per Pair Pounds
0	\$ .70	\$ .55	\$ .25	2	11/8
1	.75	.60	.25	21/4	11/4
2	1.00	.75	.35	21/2	11/2
	GA	LVANIZE	D CAST	IRON	
1	.55	.40	.20	21/4	11/4

#### Boston Socket Rowlocks

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 545

	LI	. 545			
Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Open- ing Inches	Weight Per Pair Pounds
0 Galv.	\$ .70	\$ .55	\$ .25	13/4	1/8
1 Galv.	.70	.55	.25	2	1,
O Pl. Bronze	1.30	.90	.50	13/4	.7/8
1 Pl. Bronze	1.40	1.00	.50	2	17,
O Pol. Bronze	2.25	1.50	.85	13/4	7/8
1 Pol. Bronze	2.35	1.60	.85	2	

With Chain for Galv., add 25c to above prices. With Chain for Bronze, add 30c to above prices.

# Boston Side Plate Rowlocks

#### GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 646

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Open- ing Inches	
1 Galv. 0 Pl. Bronze	\$1.15 1.80	\$ .55 .95	\$ .70 .95	13/4	11/2
1 Pl. Bronze		1.00	1.00	2	1/4
O Pol. Bronz	e 3.00	1.50	1.65	13/4	1/4
1 Pol. Bronz	e 3.10	1.60	1.65	2	11/2

With Chain for Galv., add 25c to above prices. With Chain for Bronze, add 30c to above prices.

#### Side Plate Rowlocks

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 645

		GALVAN	IZED		
Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Inches	Weight Per Pair Pounds
0	\$ .90 .90	\$ .55 .55	\$ .45 .45	13/4	13/8
1		LAIN BR		2	13/4
1		LISHED 1		2	13/4

#### Oar Leathers and Buttons

RUSSET LEATHER



Fig. 233

A high grade russet leather and button furnished complete with brass nails for attaching to oar.

Per	Pair
Complete, Leathers and Buttons\$	.95
Leathers Only-7x61/2 Inches	.70
Buttons Only—1/2x13 Inches	.30

#### Copper Oar and Paddle Tips





Fig. 794

Fig. 788

#### Dock Rollers

#### FOR CANOES AND BOATS

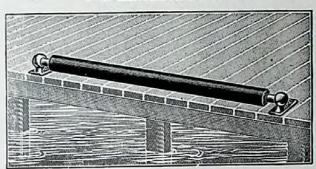


Fig. 400

An effective and simple means of rolling a canoe or boat from the water to the dock without damage. End posts are solid cast bronze.

#### HARD RUBBER ROLLER ON BRASS AXLE

Diam. Shaft Inches	Diam. Rubber Inches	Height Inches	Length Inches	Each
3/4	11/2	2	24	\$ 7.00
1	13/4	21/4	30	9.50
i	13/4	21/4	36	10.50



### **Folding Stools**

CAST BRONZE SUPPORTS

An ideal fitting for the average cruiser, appreciated by boat owners who have spent hours at the wheel.

No.	Each	Diam. Seat Inches	Offset Inches
1	\$ 8.50	11	14
2	11.00	13	16

## 102 Perkins Marine Lamp & Hardware Corp.



#### Upright Flag Pole Socket

ROUND BASE—WITH FERRULE
CAST BRONZE







Fig. 221

Inside Diam. Inches	Polished Bronze Each	Chromium Plated Each	Diam. Base Inches	Height Inches	Weight Ounces
3/4	\$1.15	\$1.60	21/8	13/4	7
1	1.60	2.05	21/2	2	81/2
11/4	2.00	2.45	23/4	21/8	11
11/4	2.70	3.20	3	3	16

#### Flush Flag Pole Socket

WITH FERRULE
GALVANIZED CAST IRON—CAST BRONZE



Fig. 218



Fig. 219

Inside Diam. Inches	Galv. Each	Pol. Bronze Each	Chrom. Plated Each	Diam. Flange Inches	Depth Socket Inches	
3/4	\$ .35	\$ .80	\$1.25	2	11/6	41/
1	.40	.95	1.40	23/8	13/4	6
11/4	.50	1.25	1.70	25/8	2	10
11/2	.75	1.75	2.25	31/8	23/8	16

Galvanized furnished without ferrule.

### Transom Flag Pole Socket

CAST BRONZE



Fig. 22

\$2.50

Diam. Socket Inches	Depth Socket Inches 1%	Length Base Inches 31/8	Width Base Inches 1½	w
	olished Bronze		Chromiu: Plated	m

\$1.90

#### Upright Flag Pole Socket

SQUARE BASE—NO FERRULE GALVANIZED CAST IRON



Bow

Fig. 570



Stern

Fig. 571

Inside Diam. Inches	Galv. Each	Height Inches	Size Base Inches	Weight Ounces
3/4	\$ .40	13/4	2 x2	51/2
1	.50	21/4	21/4×21/4	11
11/4	.80	23/4	23/4×23/4	13
11/2	1.15	31/2	3 x4	24

#### Outrigger Pole Sockets

POLISHED BRASS



Fig. 1100

A well made heavily constructed socket of heavy brass with cast bronze brackets for mounting on rail or deck house.

No.	Each	Diam. Inches	Length Inches	Bracket Inches	Weight Pounds
1	\$7.00	2	101/4	35/8	3
2	8.00	23/8	12	4	33/4

#### Swivel Outrigger Pole Holders

EXTRA LONG SOCKET—REINFORCED STRONG HEAVY BRONZE CASTINGS



Fig. 414

Pole can be set at any desired angle, has swivel base plate and hinged socket.

Cast bronze fittings are good and heavy to prevent breakage, socket is extra long and reinforced on the outer end to prevent splitting.

Per	Inside Diam. Socket	Length Socket	Diam. Plate	Weight Pair
Pair	Inches	Inches	Inches	Pounds
\$18.00	17/6	10	3	63/4

#### Old Style Boat Hooks

GALVANIZED MALLEABLE IRON AND BRONZE
SHARP POINTS



Fig. 223

Size No.	Galvanized Each	Polished Bronze Each	Chromium Plated Each	For Diam. Pole Inches	Extreme Length Inches
0	\$ .55	\$1.40	\$2.50	1	71/4
1	.65	1.55	2.65	11/4	81/4
2	.90	2.00	3.10	11/2	95/8
3	1.15			2	93/4

#### BALL POINTS



Fig. 224

Size No.	Galvanized Each	Polished Bronze Each	Chromium Plated Each	For Diam. Pole Inches	Extreme Length Inches
31/2	\$ .60	\$1.55	\$2.65	1 .	73/8
4	.70	1.65	2.75	11/4	81/4
5	.90	2.15	3.25	11/2	93/8
6	1.35			2	91/2

#### **Boat Hook Holders**

SPRING BRASS

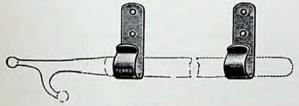


Fig. 490

Made of spring brass they will accommodate poles up to 1½ inch in diameter, and hold them firmly in place.

	in diameter, ar	id noid the	in mining	III place.
Polished Brass Each	Chromium Plated Each	Length Inches	Width Inches	Weight Ounces
\$ .55	\$ .80	31/2	1	11/2

#### Sword Fish Darts

PLAIN CAST BRONZE



Fig. 805

Each Length Inches \$ .50

Weight Per 100 In Pounds

#### Letters and Figures

CAST BRONZE

REGULAR PATTERN





Fig. 348

Height Inches	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Weight Per 100 in Lbs.
2	\$ .20	\$ .40	\$ .60	61/2
3	.25	.45	.65	241/4
4	.60	1.00	1.30	36

#### GOTHIC PATTERN





Fig. 313

leight nches	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Weight Per 100 in Lbs.
3	\$ .25	\$ .45	\$ .65	18

#### Ring Buoy Holders

CAST BRONZE



Fig. 1017

The natural spring tension of the hook holds the buoy fast but ready for instant use.

Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Width Mounting Plate Inches	Height Overall Inches	Weight Pounds
\$ .95	\$1.45	\$1.95	3	41/2	1/2

#### Dart Shank

IRON SHANK-CAST BRONZE SOCKET



Fig. 655

Length	overall,	24	inches;	Weight,	11/4	pounds.
--------	----------	----	---------	---------	------	---------

Each _____\$2.00

## 104 Perkins Marine Lamp & Hardware Corp.



#### Windshield Brackets

CAST BRONZE-V TYPE

Sturdy and attractive fittings for runabouts and outboard motor boats.

The end brackets have beveled bases that will fit the crown of most decks, all brackets are grooved for ¼ inch glass.

#### WITH SIDE HANDLES



Fig. 930

Angle from vertical 23 degrees.

Polished	Chromium	Center	End		Weight
Bronze	Plated	Bracket	Brackets		Per Set
Per Set	Per Set	Inches	Inches		Pounds
\$13.75	\$17.50	81/4	55/8	9	5

Price does not include glass or rubber insulation. Height is measured vertically.

#### WITHOUT SIDE HANDLES

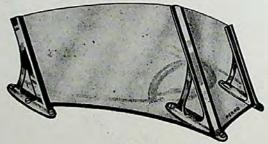


Fig. 665

Angle from vertical 35 degrees.

Polished Bronze Per Set	Chromium Plated Per Set	Height Center Bracket Inches	Height End Bracket Inches	Length Center Base Inches	Weight Per Set Pounds
\$13.75	\$17.50	91/2	71/2	73/8	41/2
Price doe	s not inch			bber ins	ulation.

#### Rubber Insulation for Windshields





Fig. 667 Fig. 668
Live moulded rubber for glass ¼ inch thick.

Fig. 667—Supplied only in 12 ft. lengths.

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

#### Windshield Cleaners

ELECTRIC—6 AND 12 VOLTS—CHROME FINISH FOR SWING OUT WINDSHIELDS INSIDE MOUNTING

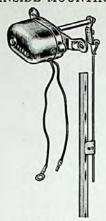


Fig. 395

Motor cover is brass. Shaft and arm are steel, cadmium plated. Blade is adjustable to various lengths.

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

6 Volt	12 Volt	Width	Blade	Shaft	Weight
Each	Each	Inches	Inches	Inches	
\$7.35	\$8.00	6	11	21/2	11/4

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

With grey enamel finish instead of chrome, deduct \$1.00 each from above. To order only.

#### Windshield Adjusters

CAST BRONZE



		Fig. 82		
No.	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Overall Inches	Length Adjustment Inches
1	\$6.00	\$8.00	61/2	5
2	7.00	9.00	9	7
3	10.00	12.50	12	91/2

Note-When ordering 1/2 pair, specify whether for right or left side.

#### Non Skid Step Plates

WITH MOULDED RUBBER STEP PADS CAST BRONZE—CHROMIUM PLATED



Fig. 1043

No.	Complete Each	Frames Only Each	Rubber Pads Only Each	Extreme Dimensions Inches	Weight Pounds
1	\$4.00	\$3.00	\$1.25	81/2×31/2	13/4
2	5.25	4.00	1.50	111/2×51/2	13/4

# Stanchion Posts

GALVANIZED CAST IRON OR BRONZE



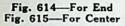




Fig. 616—For Corner Fig. 617—For Bow

Size No.	Galv. Each	Polished Bronze Each	Chromium Plated Each	Extreme Height of Post Inches	Bored For
1	\$ .55	\$1.00	\$1.75	2	5/8" Rod
11/2	.55	1.00	1.75	2	1/4" Pipe
2	.70	1.20	1.95	21/2	5/8" Rod
21/2	.70	1.20	1.95	21/2	1/4" Pipe
3	.85	1.40	2.20	3	5/8" Rod
31/2	.85	1.40	2.20	3	3/8" Pipe
5	1.10	2.50	3.30	4	3/4" Rod
51/2	1.10	2.50	3.30	4	1/2" Pipe

# Grab Rails

CAST BRONZE POSTS-BRASS TUBING

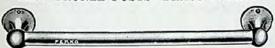


Fig. 379

Length	1	Inch Diameter	11/4	Inch
Between Posts Inches	Polished Bronze Each	Chromium Plated Each	Polished Bronze Each	Chromium Plated Each
6	\$4.00	\$5.50	\$4.50	\$6.00
8	4.25	5.75	4.75	6.25
12	5.00	6.50	5.50	7.00
18	5.50	7.00	6.00	7.50
24	6.00	7.50	6.50	8.00
30	6.50	8.00	7.00	8.50
36	7.00	8.50	7.50	9.00
42	7.50	9.00	8.00	9.50

Can be furnished with middle post and in special lengths if desired. Price on application.

# Rail Hinge

CAST BRONZE



Fig. 122

No.	Polished Bronze Each	Chromium Plated Each	Size Rail Inches	Length Weight Inches Pounds
1	\$4.80	\$6.00	11/2×21/2	5 17/8 35/8 13/4
2	5.25	6.50	13/8×3	3/8 174

## Hand Rail Sockets

CAST BRONZE



Fig. 215

Made for end or center of rail of high grade bronze. Base can very easily be shaped to fit the crown of the deck.

For Rail Diam. Inches	H	treme leight nches	Size of Base Inches 3/8 x 3 1/2	Weight Each Ounces 5
11/4		2	3/4×33/4	9
For Rail	Polish	ed Bronze	Chromium	n Plated
Diam.	Center	End	Center	End
Inches	Each	Each	Each	Each
11/4	\$1.30	\$1.50	\$2.25	\$2.45
	1.90	2.15	2.85	3.10

Please specify center or end and size when ordering.

## Grab Rail Posts

CAST BRONZE-HOLLOW



Fig. 380

No. 1 2	Diam. Base Inches 2½ 3	Height Overall Inches 3 1/2	Diam. Hole Inches   or   1/8	Weight Each Pounds 5/8 13/4
No.		Polished Bronze Each		Chromium Plated Each
1 2		\$1.75 4.00		\$2.60 5.00

Furnished for center mounting when desired, please specify.

# Flush Rail Lock

CAST BRONZE



Fig. 123

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

No. 1	Polished Bronze Per Set \$5.25	Chromium Plated Per Set \$6.50	Size Rail Inches 1½x2½ 1¾x3	Length Inches 5 35/8	Weight Pounds 17/8 13/4
2	5.75	7.00	1-/8×3	2/8	174

# PERKO

# Rope Swimming Ladders

WITH ROUND WOOD RUNGS



Fig. 991

Made of % inch best grade rope with oil treated hickory rungs. Rungs are 14 x 14 inches and spaced 12 inches apart.

Furnished complete with lanyards 6 feet long for making fast on board and thimbles with light lanyard on lower end for lashing down.

Ladders	Each
2 rung	\$3.75
3 rung	4.50
4 rung	5.25
5 rung	6.00
6 rung	6.75

Additional rungs add \$1.00 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 rope with ash steps, varnished.

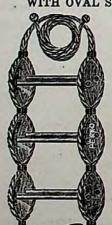
Furnished complete with lanyards 6 feet long for making fast on board.

		-	
Ladders			Each
2 step			\$5.00
3 step	1		6.25
4 step			7.50
5 step			8.75
6 sten			10 00

Additional steps add \$1.65 each.

Fig. 992

# Rope Boarding Ladders WITH OVAL SIDES AND DOUBLE RUNGS



Each rung is 1¼ x 14 inches and steps are spaced 12 inches apart.

Made of first grade 1/8 rope. Selected ash sides and steps.

Furnished complete with lanyards 6 feet long for making fast on board, and thimbles with light lanyard on lower end for lashing down.

Ladders	Each
2 step	\$ 8.00
3 step	12.00
4 step	16.00
5 step	20.00
6 step	24.00

Additional steps add \$4.00 each.

# Ladder Locks

CAST BRONZE



Fig. 669

Height Inches	Length Socket Inches	Length Bracket Inches	Weight Per Set Ounces
11/4	1	13/4	12
Polished Bronze Per Set \$2.80			Chromium Plated Per Set \$4.80

A set consists of four pieces illustrated

# Ladder Hooks

CAST BRONZE



Fig. 670

Length

\$12.50

Extreme

\$9.50

Inches 12		Inches 21/2 x 3 3/8	Pounds 4
Compolished	Chromium	Polished	Plated
Bronze	Plated	Bronze	
er Set	Per Set	Per Pair	

\$2.50

Weight Per Set

\$4.00

# Ladder Hooks

CAST BRONZE
WITH FLUSH PLATES FOR DECK

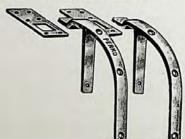


	Fig.	994	100000
Extreme	Length	Size	Weight
Length Inches	Brace Inches	of Plate Inches	Per Set Pounds
10	33/4	31/4×2	4
Con	plete	Plate	s Only
Polished	Chromium	Polished	Chromium
Bronze	Plated	Bronze	Plated Per Pair
Per Set	Per Set	Per Pair	
\$9.50	\$12.50	\$2.25	\$3.25

#### Mortise Locks

CAST BRONZE-POLISHED



Cast bronze case with reversible latch bolt. Furnished with polished striking plate and one brass bit key.

Fig. 944

No.	Each	Case Inches	Facing Inches	Backset Inches	Spindle Hub Inches
1	\$3.50	23/4×2 ×1/2	41/8x 16	11/2	16
2	5.00	31/2×23/4× 16	5 x3/4	21/4	16 5 16

### Mortise Lock Sets

CAST BRONZE-POLISHED

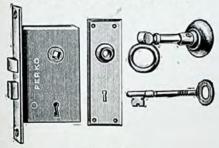


Fig. 945

The following shows mortise lock Fig. 944 numbers 1 and 2 made up in various sets.

		SET A		
With	Combination	Escutcheons, Drop Handle	Round	Knob and
Size No.	1. Price Per	Set		\$7.50
Size No.	2, Price Per	Set		9.00
		SET B		
With Shi	ield Escutches	ons, Round Kr	ob and	Drop Handle
Size No.	1. Price Per	Set		\$6.50
Size No.	2, Price Per	Set		8.00
		SET C		
With	Shield Escut	cheons and T	wo Rou	nd Knobs
Size No.	1. Price Per	Set		\$6.75
Size No.	2, Price Per	Set		8.25
		SET D		
With C	ombination F	scutcheons and	Two R	ound Knobs
		Set		

Size No. 2, Price Per Set ... 9.25 Shield Escutcheon Inches Diameter Round Knob Inches Combination Escutcheon Inches

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 brase bit kev.

Fig. 1045

N

Each	Case Inches	Spindle Inches	Backset Inches
\$4.50	21/2×2 ×1/2	16	1 7
5.00	33/4×21/2×5/8	16	11/2
	\$4.50	Each Inches \$4.50 2½x2 x½	Each Inches Inches

### Rim Lock Sets

CAST BRONZE-POLISHED

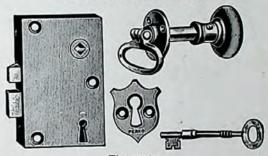


Fig. 1046

The following shows Rim Lock Fig. 1045, Numbers 1 and 2 made up in various sets.

#### SET A

With Combination Escutcheons, Round Knob and Drop Handle

	er Set 8.50
With Shield Escutch	SET B seons, Round Knob and Drop Handle
Size No. 1, Price Pe Size No. 2, Price Pe	er Set\$7.50 er Set8.00
	SET C

#### With Shield Escutcheons and Two Round Knobs

Size No. 1, Price I Size No. 2, Price I		8.00
With Combination	SET D Escutcheons and Two Round K	nobs

Size No.	2, Price Per Set.		8.75
For Set No.	Combination Escutcheon Inches	Diameter Round knob Inches	Shield Escutcheon Inches
1	43/8×11/8	13/4	11/2
2	6 x11/2	13/4	11/2

Size No. 1, Price Per Set ...

All of the above sets can be furnished with oval knobs if desired-Price on Application.

Extra keys for above locks furnished to order.



### Brass Tubular Lock Sets

FOR SMALL CABIN DOORS
DULL FINISH OR CHROMIUM PLATED



Fig. 567

Dull Finish Each	Chromium Plated Each	For Thickness Doors Inches	Size Escutcheon Inches	Size Knob Inches	Back- set Inches
\$2.25	\$3.50	1/a to 13/8	43/8×15/8	13/4	13/8

### Door Knobs

CAST BRASS-POLISHED

Solid cast brass round knobs and rosettes. Wrought brass spindles. Two Round Knobs

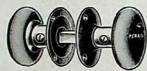


	Fig. 1048	
Diam. Knob		Spind
Inches	Per Set	Inche
13/4	\$3.00	16
	Round Knob and Drop Handle	

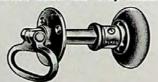


Fig. 1049

Diam. Knob		Size
Inches	Per Set	Inches
13/4	\$2.75	5 10
1	Knobs for Rim Locks have One Rosette Knobs for Mortise Locks have Two Rosettes	

#### Drawer Knobs

ALL BRASS-FOR DRAWERS UP TO 11/8" THICK



Fig. 924



Fig. 925

No.	Fig.	Polished Bronze Per Dozen	Chromium Plated Per Dozen	Diameter Inches
1	924	\$3.25	\$4.25	1
2	924	4.80	6.00	11/4
3	925	3.00	4.00	i

# Cupboard Catches CAST BRONZE—EMERY FINISH

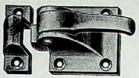


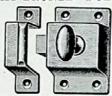
Fig. 1102

Furnished complete with screws.

T MI IIIOIIO	a combined mine		
0.	Each	Without Strike Inches	Weight Per Dozen Pounds
0.	1200011		
	\$1.15	11/2×11/2	11/2
	1.20	11/2×11/2 11/2×11/2	13/4
No 2 has	s % inch offset.		

## Cupboard Turns

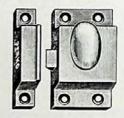
WROUGHT BRONZE-DULL FINISH



Furnished complete with screws.

No.	Each	Without Strike Inches	Weight Per Dozen Pounds
1	\$ .60	17/8×11/8 21/4×11/2	2
2	.65	21/4×11/2	3

# Cupboard Turns CAST BRASS—POLISHED



		rig. 949	
No.	Each	Without Strike Inches	Weight Per Dozen Pounds
1	\$1.10	13/4×11/8	21/2
2	1.20	21/8×11/2	33/4

#### **Cupboard Catches** CAST BRASS-POLISHED

	Fig. 950	
0.	Each	
1	\$ .70	
2	.75	
3	.95	

Without



#### Flush Ring Catch CAST BRASS-POLISHED

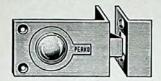


Fig. 1051

Inches 15/8×11/4

Each \$ .95 Weight Ounces 11/2

# Flush Ring Pulls

CAST BRASS-POLISHED



Fig. 841

o.	Each
1	\$ .60
2	.70
3	.85
4	1 15

	Size Plate
Each	Inches
\$ .60	11/4×11/2
.70	11/2×2
.85	17/8×21/2
1.15	21/4×23/4

Weight Ounces

# Cabinet Latches

CAST BRASS-POLISHED



Fig. 1064

With flush striking plate and brass pin, spring closing. Made either right or left hand.

Pol	ished
B	rass
E	ach
S	-50

Chromium
Plated
Each
\$ .80

Length Overall Inches

Length Lever Inches

# Refrigerator Fasteners

CAST BRASS-POLISHED



Fig. 1063

Made either right or left hand with flush striking plate. Holds doors without strain on the rivet. Has brass pin.

Illustration shows right hand.

Length Overall No. Inches		Each	Size Lever Inches	
1	5 .	\$1.40	4	
2	614	1.90	43/4	

#### Barrel Bolts

CAST BRASS-POLISHED

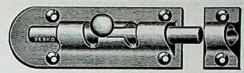


Fig. 947

	Length Rod
Each	Inches
\$ .75	21/4
.90	3
1.20	4

W	e Base ithout trike
I	nches x 1
2	
31	x11/8

Weight Per Dozen Pounds 1½ 2 3

### Flush Bolts

CAST BRONZE—POLISHED



Each \$ .75 .85 Inches 5/8 x 2 1/2 5/8 x 3

Weight Ounces 1½ 2

# Ship Bolts

CAST BRONZE



Fig. 1053

Each .75 1.55 Size Without

# Square Neck Bolts

CAST BRONZE



Fig. 1054

Each \$1.10 1.25 Size

# Window Bolts

CAST BRONZE—POLISHED SPRING TYPE

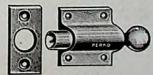


Fig. 1055

Base Inches 11/8×11/4

Each \$1.00



# Strap Hinges

GALVANIZED MALLEABLE IRON OR BRONZE BRASS PINS



Fig. 120

Length Opened Inches	Galvanized Per Pair	Plain Bronze Per Pair	Polished Bronze Per Pair	Chrom. Plated Per Pair	Weight Per Pai Pounds
4	\$ .55	\$1.00	\$1.50	\$2.50	5 16
6	.90	1.35	1.85	2.95	5/8
8	1.25	1.65	2.35	3.60	7/8
10	1.60	2.10	3.00	4.50	11/8
12	2.25	2.80	4.00	5.50	15/8

# Port Hinges

GALVANIZED MALLEABLE IRON OR BRONZE BRASS PINS

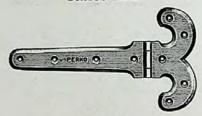


Fig. 109

Length Opened Inches	Galvanized Per Pair	Plain Bronze Per Pair	Polished Bronze Per Pair	Chrom. Plated Per Pair	Weight Per Pair Pounds
4	\$ .90	\$1.40	\$2.10	\$3.20	1/2
6	1.10	1.80	2.70	4.00	7/8
8	2.15	2.50	3.75	5.25	11/2
10	3.10	3.50	5.00	6.75	2
12	4.10	5.50	7.50	9.50	25/8

# **Cuddy Door Hinges**

CAST BRASS



Fig. 951

	- C (4-0)		
Length Opened Inches	Plain Brass Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
3	\$ .85	\$1.10	\$1.70
31/2	.90	1.40	2.10
4	1.00	1.60	2.50
5	1.20	2.20	3.25

## Fast Pin Butt Hinges

CAST BRASS—EMERY FINISH BRASS PINS



Fig. 952

Size Open Inches	Per Doz. Pairs	Size Open Inches	Per Doz. Pairs
11/2×11/4	\$7.20	21/2×21/2	\$17.40
11/2×11/2	7.80	3 x2	19.80
2 x11/4	8.40	3 x21/2	20.40
2 x11/2	9.60	3 x3	22.80
2 x13/4	10.20	31/2×3	28.20
2 x2	11.40	31/2×31/2	30.60
21/2×13/4	13.80	4 x3	36.00
21/2×2	14.40	4 x4	40.80

Polished or Chromium Plated, Price on Application Other Sizes Furnishd to Order

# Loose Pin Butt Hinges

CAST BRASS—POLISHED BRASS PINS



Fig. 953

Size Open Inches	Per Pair	Size Open Inches	Per Pair
11/2×11/2	\$1.70	3 x21/2	\$3.40
2 x11/2	1.70	3 x3	3.50
2 x2	2.20	31/2×3	4.00
21/2×2	2.35	31/2×31/2	4.40
21/2×21/2	2.50	4 x31/2	5.50
3 x2	2.75	4 x4	7.00

Chromium Plated, add 40% to above Prices.

# Skylight or Hatch Hinges

CAST BRONZE



Fig. 376

Length Between Joints Inches	Plain Bronze Per Pair	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Open Inches
2	\$2.85	\$4.00	\$5.25	111/4
- 3	3.60	4.75	6.25	121/4
4	3.90	5.25	7.25	13
5	5.75	7.25	9.25	161/4
6	6 25	9.00	10.25	17

# **Butterfly Hinges**

WROUGHT BRASS-PLAIN



Fig. 1058

o.	Per Pair	Length Open Inches	Width at Pin Inches	Weight Per Pair Ounces	Thickness
	\$ .14	21/4	3/4	1/2	.035
	.18	31/8	1 16	11/2	.040

# Spring Hinges

WROUGHT BRASS-PLAIN



	00	0)
	Fig. 1059	10000
Per Pair	Length	Width Open Inches

\$ .55

# Spring Hinges

CAST BRONZE-POLISHED

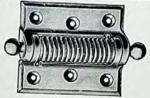


Fig. 1107

Furnished complete with screws.

Per Pair \$4.50

Length

Width Inches 21/2

Weight Per Pair

Weight Per Pair Ounces

# Hatch Hinges



For use with flush hatch cover.

Polished Bronze Per Pair \$5.00

Plated Per Pair \$6.50

Length Inches

Width

Continuous Hinge

WROUGHT BRASS-BRASS PIN



Fig. 211

For use on hatch covers, locker doors, windshields, etc. Holes are two inches apart, center to center.

oc. IIOIO	MIC CITO	money where,	COLLEGE OF	
Width		Polished	Chrom.	
Open	Length	Brass	Plated	Thickness
Inches	Inches	Each	Each	Inches
1 16	60	\$2.20	\$2.65	.045
11/4	60	2.30	2.75	040
11/4	72	2.75	3.30	.040
11/2	60	2.35	3.00	.040
11/2	72	2.80	3.65	.040
2	60	2.80	3.65	.040
2	72	3.35	4.40	.040

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

### Flat Hatch Trim

WROUGHT BRASS-DRILLED



Fig. 243

For finishing around edges of hatch. Drilled and untersunk off center for No. 6 flat head screws.

Junicerse	in on con	Polished	Chromium	
Width	Length	Brass	Plated	Thickness
Inches	Inches	Each	Each	Inches
1 16	60	\$1.75	\$2.25	.045
11%	60	2.00	2.50	.040
112	72	2.40	3.00	.040
112	60	2.20	2.75	.040
11/2	72	2.65	3.30	.040

Supplied in special lengths to order, price on ap-

Supplied without holes, price on application.

# Hatch Handle

CAST BRONZE



Fig. 185

Polished Bronze Each

Length Overall Height Overall Chrom. Plated Each

Size Opening Inches 31/4x1

Weight

# Flush Hatch Lifting Handle

CAST BRONZE--SAFETY TYPE



Fig. 774

No recess to catch heels, chair or table legs, etc.

Polished Bronze Each	Chromium Plated Each	Size Plate Inches	Inside Handle Inches	Weight Ounces
\$2.00	\$3.25	3x21/4	13/4×1	6

Illustration shows one half pair.



## **Boston Hinged Hasps**

GALVANIZED MALLEABLE IRON OR BRONZE



Length Opened Inches

0	-1	
	alv.	
\$	.55	
	.75	

Fig. 954 Plain Bronze Each

Polished Bronze Each \$1.20 1.80

Chromium Plated Each \$1.80 2.60

# Security Hinged Hasps

CAST BRONZE

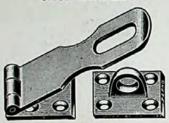


Fig. 955

Length
Closed
Inches
3
33/4
- /4

Polished Bronze Each \$ .80 .95

Chromium Plated Each \$1.30

Width Inches 11/8

Weight Ounces 21/2 41/2

# Cabin Door Hooks

CAST BRASS-POLISHED



Fig. 956

Hook Inches	Each
11/2	\$ .50
2	.55
21/2	.60
3	.70

Each	Weight Ounces	
\$ .50	114	
.60	13/4	
.70	2	

Length Hook Inches 31/2 4 5

Each \$ .85 .90 1.00 Weight Ounces 2½ 3

# Cabin Door Hooks

DOUBLE JOINTED CAST BRASS-POLISHED



Fig. 957

Ler	ıgt	h	
H	loc		
In	ch	es	
2			
2	1/2		
3			

Each \$1.10 1.20 Length Hook Inches Each \$1.60 1.75 1.85 Safety Hasps

EXTRA HEAVY CAST BRONZE--POLISHED



Length Inches 41/2

Fig. 1060 Width Inches 15/8

Each \$2.00

# Anti-Rattle Door Fastener

CAST BRONZE-POLISHED

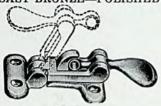


Fig. 1108 Has ¼ inch hole in lever for padlock.

\$1.50

Per Set \$1.10

Size Base

Weight

# Door Holders

SIDE PATTERN CAST BRONZE-DULL FINISH

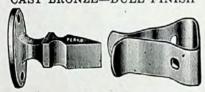


Fig. 1065

Base of Holder Inches 1 3/4 x 7/8

Base of Clip Inches 21/8 x 3/4

Projection.

FLOOR PATTERN



Fig. 1066

Base of Holder
Inches
25%x13/4 Height Holder Inches 13/4

Base of Clip Inches 21/8×3/4

# Cupboard Door Holder

ALL BRONZE



Fig. 1178 A useful little friction catch for use on cabinets, closets, cupboards and all small doors, size overall-1%x1% inches.

Per Dozen \$1.80

Per Set \$1.20

# Sash Hinges



Fig. 418

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

	Size of	Size of	Weight	Length	
	Hinge Plates	Bracket Base	Per Set	of Pin	
No.	Inches	Inches	Ounces	Inches	
1	1 Tx 7/8	21/2x 11	6	7/8	
2	1 7 x 7/8	31/4× 11	7	7/8	
	. 16/О Р	olished	(	hromium	
		Bronze		Plated	
No.		er Set		Per Set	
1		\$1.90		\$3.00	
2		2.60		3.75	

#### Combination Sash Hinges WITH CURTAIN ROD SOCKETS

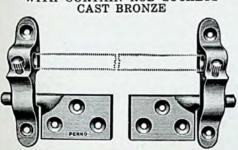


Fig. 960

Size of
linge Plates
1 Tax 7/8
. 167.48

Size of Bracket Base Inches 23/4x1/2 Weight Per Set Ounces 7 Length of Pin Inches

Polished Chromium
Bronze Plated
Per Set Per Set
\$2.40 \$3.50

# Sash or Skylight Fastener



Fig. 770

Size Emery Finish Inches Each \$2.00

Polished Bronze Each \$2.50

Chromium Plated Each \$3.50

# Wardrobe Hooks

CAST BRONZE



Fig. 635

Polished Chro Brass Plants Each E. S. 30 S

Chromium Plated Each \$ .45 Projection Inches Width Inches Weight Ounces

# Sash Anti Rattlers

CAST BRONZE

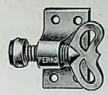


Fig. 839

Furnished with leather tip to prevent defacing of woodwork. Size of base 1%" x 1".

Polished Bronze, Each \$1.25
Chromium Plated. Each 1.75

# Sash Lifts



		Fig. 776		
	Size of	Polished Bronze	Chromium Plated	Weight
0.	Plate	Each	Each	Ounces
1	1/2×11/2	\$ .35	\$ .65	1/2
2	3/4×1 1/6	.35	.65	3/4

#### Sash Fasteners LEFT OR RIGHT HAND



Fig. 77

Polished Bronze Each \$ .75

N

Chromium Plated Each \$1.20 Size Mounting Plate Inches

Weight Ounces

Please specify left or right hand

# Coat and Hat Hooks

CAST BRASS



Fig. 959

Polished Brass Each \$ .35 Chromium Plated Each \$ .50

Projection Width Base Inches Inches 2 11/4

Weight Ounces 21/2



Weight Ounces 2

Weight Ounces

# Skylight Quadrants

CAST BRONZE



Fig. 449

No.	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Overall Inches	Adjust- ment Inches	Weight Per Pair Pounds
1	\$5.25	\$7.25	5	31/8	1/2
2	6.50	8.50	8	61/2	11/2
3	7.25	9.50	101/4	81/2	21/8
4	8.00	10.50	12	101/2	21/4

# Hatch Adjusters

CAST BRONZE

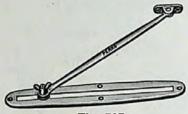
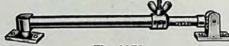


Fig. 797

Polished Bronze Each	Chrom. Plated Each	Length Arm Inches	Adjust- ment Inches	Length Plate Inches	Weight
\$3.25	\$4.25	10	91/2	103/4	13

# Casement Adjuster

ALL BRASS-HEAVY PATTERN



A non-slip adjuster with powerful grip to stay put in position desired.

Illustration shows swivel base on left side and swinging base on right.

Polished Brass	Chromium l'lated	Length Closed	Length Open	Outside Tube
Each	Each	Inches	Inches	Inches
\$2.85	\$4.00	-11	20	1/2

## Casement Fasteners

CAST BRONZE-POLISHED

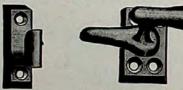


Fig. 1106

Without Strike Inches Extreme Projection Inches Weight \$1.35 2x11/4 17/8 6

#### Door Pulls CAST BRONZE



Fig.	7	7	5
Ch	ro	n	iiu

		1 1g	
ength	Polished	Chromium	Length
erall	Bronze	Plated	Inside
ches	Each	Each	Inches
1/4	\$ .45	\$ .70	25/8
	.60	.90	33/4
, ,			

# Drawer Pulls

CAST BRASS-POLISHED

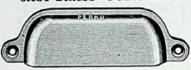


Fig. 958

th		Width
all		Inside
ies	Each	Inches
	\$ .40	21/0
		249
	.45	27/8

### **Door Buttons**

CAST BRASS-POLISHED



Fig. 948

No.	Per Dozen Complete	Without Plate Per Dozen	Diam. Inches
1	\$4.00	\$1.40	11/2
2	4.50	2.00	13/4
3	5.50	2.25	2

Door Stops

CAST BRONZE—POLISHED RUBBER TIP



Fig. 1109

Furnished	complete with scr	rews.	
Each \$ .90	Diam, Base Inches 21/4	Projection Inches 1	Weight Ounces 4

# Elbow Catches

CAST BRASS





Fig. 1056 Small spiral brass spring in catch lever. For light

cupboard doors, etc.
Size Base Plain
Inches Each Polished Each \$ .50

Weight Qunces

# **Curtain Fasteners**

WROUGHT BRASS



Fastener Fig. 995







Washer Fig. 997

Made of stamped brass, for single and double cur-

Heig	ht	O	rer	al
	Si	ng	le	
	In	ch	es	
	1	1/4		
		4		

Height Overall Double Inches 7/8

Size Base Inches 11/4x1/2

Double Complete with Eyelet and Washer-per \$14.00

gross \$12.00 12.00 Fastener Only-per gross ...... 10.00 1.65 Eyelet Only-per gross 1.00 Washer Only-per gross

Note—Double fasteners when ordered complete are supplied with two eyelets and two washers for each

# Curtain or Grommet Hooks

CAST BRONZE



Fig. 1000

Plain Bronze Per Dozen	

Polished Bronze Per Dozen Diam.

Length Screw Inches

\$1.00

\$1.75

3/8

1/2

# **Grommet Hole Cutters**

FORGED STEEL



Fig. 903

	D.			
Each \$ .80 .80 1.00 1.00	Diam. Hole Inches 1/4 8 3/2 11 3/8	No. 5 6 7 8	Each \$3.00 3.25 3.50 3.75	Diam. Hole Inches

# Lacing Eyes

GALVANIZED MALLEABLE IRON AND BRASS

REGULAR



Fig. 766

Size No. 1 2 3	Galv. Each \$ .04 .06 .08	Plain Brass Each \$ .05 .03 .10	of Eye Inches	Length Under Eye Inches   11/4 11/2 2	Weight Per 100 in Lbs. 2 31/2 7
3	.08		3/8	2	11

WITH SHOULDER



Fig. 767

Size	Galv. Each	Plain Brass Each		Length Under houlder Inches	Weight Per 100 in Lbs.
1	\$ .04	\$ .05	16	1	2
2	.06	.08	3/8	11/4	2
2	.08	.10	1/2	11/2	81/2
4	.12	.14	5/8	2	13

# Senior Grommet Dies

FORGED STEEL

Style B for inserting Spur Grommets Style C for inserting Washer and Teeth Grommets



	rig	, 902	Weight
Size	Style B Each	Style C Each	Each Lbs.
No.	\$3.00	\$3.00	11/4
0	3.30	3.30	13/8
1	3.65	3.65	13/8
1 2 3 4 5	3.85	3.85	1 16
3	4.05	4.05	23/8
4	4.40	4.40	25/8
	4.95	4.95	31/2
6	7.15		33/4
8	7.70		5

Use a wooden mallet with above dies.



# **ANCHOR SHACKLES**

DROP FORGED STEEL AND BRONZE

SCREW PIN

ROUND PIN



Fig. 314



Fig. 315

Prices and Dimensions Below Apply to Both Figs. 314 and 315.

Size Galvanized Colored Bronze Bronze Inside Eyes Pin Inches Each Each Each Inches Inches	Weight Per 100 in Pounds	Approx. Strength in Pounds
A ==	7	3000
1/4 .30 \$ .28 .55 .75 1/8 1/2 1/9	14	4450
16 .35 .33 .80 .95 11/4 16 3/8	25	6850
3/4 .40 .38 1.25 1.40 1 1/6 1/6 1/6	35	8800
16 .50 .46 1.50 1.65 1 1/4 1/4 1/2 1/6 1/6 .60 .56 2.20 2.50 1 1/8 1/8 1/8	56	13250
1/2 .60 .56 2.20 2.50 1 1/8 1/8 1/8	78	17300
5/6     .90     .82     2½     1/6     3/4       3/4     1.30     1.20     3     1/4     1/8       3/8     1.70     1.50     3½     1½     1/2     1	156	29000
34 1.30 1.20 3 11/4 1/8	245	39200
¹ / ₈ 1.70 1.50 3½ 1½	375	53000
1 2.20 1.90 334 116 1/8	525	64600
11/8 3.20 2.80 41/4 11/8 11/4	740	76000
11/4 4.00 3.50 41/2 2 13/8	900	95000
13/8 5.00 4.40 51/4 21/4 11/2	1300	116000
	1650	138000
1½ 6.50 5.80 5.81 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1	2900	212000
2 15.00 13.00 734 336 214	4000	256000
21/2 60.00 56.00 10 41/8 23/4	7000	381000

Bronze Shackles are only furnished with screw pin, Fig. 314. 3 inch size only with screw pin, Fig. 314.

# **CHAIN SHACKLES**

DROP FORGED STEEL

SCREW PIN



ROUND PIN

Fig. 338

Fig. 339

Prices and Dimensions Below Apply to Both Figs. 338 and 339

Size Inches	Galvanized Each	Self Colored Each	Length Inside Inches	Between Eyes Inches	Diameter Pin Inches	Weight Per 100 in Pounds	Approx. Strength in Pounds
1/4	\$ .30 .35 .40	\$ .29 .33 .38	11/4	½ #	3/8	13 20 30	4450 6850 8800
1/2	.50 .60 .90	.46 .56 .82	11/2	17	1/2 3/6 3/4	50 70 130	13250 17300 29000
3/4	1.30 1.70 2.20	1.20 1.50 1.90	2 5 2 7/8 3 1/4	11/4 11/2 1 118	1/8	220 300 470	39200 53000 64600
11/6 11/4 13/6	3.20 4.00 5.00	2.80 3.50 4.40	31/2 3 <del>11</del> 41/2	17/8 2 21/4	11/4	670 800 1200	76000 95000 116000
11/2 13/4 2 21/2	6.50 10.00 15.00 60.00	5.80 8.75 13.00 56.00	57/8 63/4 81/4	23/6 21/6 33/6 41/6	1 3/8 2 2 1/4 2 3/4	1400 2600 3600 6000	138000 212000 256000 381000



# Wire Rope Thimbles

GALVANIZED FORGED STEEL FORGED BRONZE AND STAINLESS STEEL



Fig. 466

¥3						
For Size Rope Inches	Galv. Each	Bronze Each	Stainless Steel Each	Length Overall Inches	Width Inside Inches	Weight Per 100 in Lbs.
1/8	\$.04	\$.15	\$.25	15/0	5/6	2
78	.04	.15	.25	15%	5%	21/2
16			.30	172	3/	4/2
74	.04	.20		21/8	39	-
16	.05	.25	.35	2/8	, /8	01/
1/8	.06	.35	.45	21/2	1.,	19/4
16	.07			21/8	1/8	121/4
1/2	.08			21/8	11/8	181/2
5/8	.11			31/4	13/8	30
3/4	.13			33/4	11/2	40
1/8	.30			51/2	17/8	92
1	.40			6	2 1	114
11/4	.50			61/2	21/2	130
11%	.75			71/9	23/4	215
11%	1.25			77%	3 3	310
13%	2.00			91%	3 0	500
2	2.50			93/4	31/2	575

### Sail Thimbles

GALVANIZED MALLEABLE IRON



Light-Fig. 469 Heavy-Fig. 475

					Weight I	er Doz.	
*Size		Fig. 475 Per Dozen	Diam. Rope Inches	I. D. Hole Inches	in Po Fig. 469	unds Fig. 475	
11/4	\$ .50 .65 .90 1.10		74 56 3/8	11/2 11/2	3/8 5/8 7/8		
13/4	1.40	\$1.75 2.25	1/2	13/8	11/8	11/2	
21/4	2.00	3.00	5/8	15/8	23/4	21/8	
23/4	2.55 3.00	4.00 4.25	3/4	2	3	43/4	
31/2	3.50	4.50 5.50 edge to e	1 /8	21/2	41/4	73/4	
*Siz	e is from	edge to e	dge acros	ss hole.			

# Snubbers for Dock Lines

GALVANIZED STEEL-SPRING TYPE



Fig. 26

Designed to cushion the strain on dock lines, length-Consists of parts illustrated with a heavy coil spring inside the cylinder. Each has Navy approved markings.

Length Dlam. Size Eye Shackle. Weight Fach Inches Inches Inches Inches 1/2 101/2

# Manila Rope Thimbles

GALVANIZED DROP FORGED STEEL



Fig. 468

For Dia.			O. D.	Weight
Rope	Galvanized	I. D.	Edge to	Per 100
Inches	Each	Hole	Edge	in Lbs.
5	\$ .08	3/8	3/4	11/2
3/8	.08	1/2	7/8	21/4
16	.09	5/8	1	4
1/2	.10	3/4	11/4	53/4
5/8	.13	15	11/2	141/2
3/4	.15	11/8	13/4	18
1/8	.17	1 3	2	24
1	.20	11/4	21/4	35
11/8	.25	13/8	21/2	44
11/4	.35	11/2	23/4	55
13/8	.45	13/4	3	70
11/2	.60	2	31/2	120
13/4	1.20	23/8	4	200
2	2.25	23/4	5	300

### Wire Rope Clips

MALLEABLE IRON SADDLE STEEL U-BOLT AND NUTS GALVANIZED



Fig. 333

Size Wire Rope Inches	Galvanized Per 100	Est. Wt. Per 100 in Lbs.	Size Wire Rope Inches	Galvanized Per 100	Est. Wt. Per 100 in Lbs.
3 16	\$ 8.00	81/2	1/8	\$ 50.00	149
1/4	8.00	161/2	1	60.00	190
1/4 16	9.00	. 19	11/8	95.00	310
3/6	12.00	25	11/4	112.00	375
3/8 16	15.50	32	13/8	130.00	560
1/2	18.50	40	11/2	150.00	645
1/2 5/8	24.50	62	13/4	415.00	1085
3/4	35.00	101	2	550.00	1620

# Tiller Rope Clamps

GALVANIZED IRON AND CAST BRONZE



Fig. 358

		100 Carlotte (100 Carlotte (10				
For Rope Diameter Inches	Galv. Each	Plain Bronze Each \$ .18	Width Inches	Length Inches	Weight Ounces 13/4	
1/8	.15	.20	3/4	13/4	2	
	.20	.25	1	13/4	3	
1/4 1/6	.25	.35	1	2	31/2	
3/4	.30	.50	11/8	21/4	5	



# **OPEN TURNBUCKLES**

DROP FORGED STEEL
GALVANIZED AND SELF COLORED

HOOK AND EYE



Fig. 390



Fig. 391

EYE AND EYE



Fig. 392

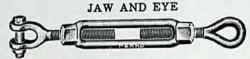


Fig. 393



Fig. 394

All Turnbuckles Have Right and Left Hand Threads.
All Turnbuckle Jaws % and Smaller Have Hex. Head Bolt and Nut.
All Turnbuckle Jaws % and Larger Have Pin and Cotter.
% and Larger Furnished with Bolt and Nut To Order.

-		Eye &	& Eye		Davis		*				& Eye				
Diam		Hook &	S. C.	Jaw &	S. C.	Jaw &	S. C.			Hook	& Eye				
Take		Each.	Each	Each	Each	Each	Each	Diamet	ter	Hook	& Hook	Jaw	& Еуе	Jaw	& Jaw
								&		Galv.	S. C.	Galv.	S. C.	Galv.	S. C.
• 1/4	<b>x</b> 4	.40	.36	.50	.45	.60	.55	Takeu	ıp	Each	Each	Each	Each	Each	Eacb
. 16	x 41/	.50	.44	.62	.54	.74	.66								
• 3/8	x 6	.60	.52	.74	.64	.88	.78	*11/42	12	\$ 7.25	\$ 6.00	\$ 9.00	\$ 7.50	\$11.00	\$ 9.00
· 1/2	× 6	.90	.80	1.10	.95	1.30	1.15		18	9.00	7.50	11.00	9.00	13.00	10.50
12	- 9	1.45	1.20	1.70	1.40	1.90	1.55		24	11.50	9.50	13.00	11.00	15.00	12.50
	12	1.70	1.40	2.00	1.60	2.30	1.85								
									36	16.00	13.00	17.00	14.00	18.00	15.00
• 3/8		1.15	.95	1.30	1.10	1.50	1.25								
	9	1.75	1.45	2.00	1.70	2.30	1.90					9 20 3 2			40.00
	12	2.10	1.70	2.40	2.00	2.70	2.20	11/2	t 1 2	11.00	9.00	13.00	10.50	15.00	12.00
	18	2.60	2.20	3.10	2.30	3.50	2.90	•	18	13.50	11.00	15.75	13.00	18.00	15.00
3/4	x 6	1.50	1.25	1.75	1.45	2.00	1.65		24	17.00	14.00	20.00	16.50	23.00	19.00
. "	9	2.30	1.90	2.70	2.20	3.00	2.50		36	22.00	18.00	26.00	21.00	30.00	24.00
	12	2.70	2.20	3.10	2.60	3.50	2.90		48	28.00	23.00	33.00	27.00	38.00	30.00
	18	3.60	3.00	4.20	3.50	4.70	3.90			20.00	25.00	33.00	21.00	30.00	30.55
	24	4.20	3.50	4.90	4.10	5.50	4.60								
								*13/4:	E18	22.00	18.00	28.00	22.50	33.00	27.00
. 1/8	x 12	3.40	2.80	3.90	3.20	4.50	3.70		24	28.00	23.00	34.00	28.00	39.00	32.00
	18	4.30	3.60	5.00	4.20	5.75	4.70		36	A TOWN OF STREET	The second section is		The state of the s		
	24	5.25	4.40	6.25	5.10	7.00	5.75		200000	36.00	30.00	42.00		48.00	
•1	×12	4.20	3.50	4.80	4.00	5.50	4.60		48	47.00	38.00	55.00	44.00	62.00	50.00
	18	5.50	4.50	6.50	5.25	7.25	6.00	•2 ,	×24	42.00	35.00	50.00	41.00	58.00	47.00
	24	6.75	5.50	8.00	6.50	8.75	7.25								
	36	8.50	7.00	10.00	8.25	11.50	9.25		36	50.00	40.00	59.00	48.00	68.00	55.00
.11/					-		-		48	62.00	50.00	74.00	60.00	85.00	70.00
.11/8	18	5.25 6.75	4.20 5.50												
	24	8.25	6.75												
	36								LAR	GER S	IZES-F	RICE C	N APP	LICATI	ON
	20	10.50	8.50							27777	4-4-1-6				1000

For One Lock Nut Add 5% to List. For Two Lock Nuts Add 10% to List.

^{*}Indicates standard marine lengths.

# PERKO

#### Galvanized Hooks

DROP FORGED STEEL - LARGE EYE



Fig. 656

Size Inches	Galv. Each	Length Overall Inches	I. D. of Eye Inches	Throat Opening Inches	Est. Wt. Per 100 in Lbs.
3/8 1/2 5/8	\$ .20 .25 .40	27/8 35/8 4 18	1 1 1/4	9 16 11 16 15 16	14 28 50
13/4	.50 .70 .90	55/8 61/2 7	11/2 15/8 17/8	1 1/8 1 3/16 1 1/4	90 148 225

# Hooks With Wire Rope Thimbles

DROP FORGED STEEL - LARGE EYE



Fig. 610

Size Inches	Galvanized Each	Length Overall of Hook Inches	Score of Thimble Inches	Weight Per 100 in Lbs.
3/8 1/2 5/8	\$ .50 .55 .85	27/8 35/8 4 13	3/8 1/2	19 36 62
13/4	.95 1.30 1.60	5 5/8 6 1/2 7	1/2 5/8 3/4	102 170 250

Deduct 5% for Self Colored Finish.

For size of eye and throat opening, see Fig. 656.

# "S" Hooks

GALVANIZED WROUGHT STEEL



Fig. 680

Size Inches	Per Dozen	Length Overall Inches	Est. Wt. Per Doz. in Lbs.
3 16 1/4 5 16	\$ .45 .60 1.10	1½ 2 2½	1/2
3/8 1.0 1/2	1.35 2.70 3.25	3 33/4 33/4	13/4 23/4 4

## Connecting Links

DROP FORGED STEEL WITH INTERLOCKING LUGS

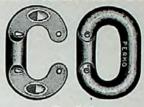


		Fig. 319	9	
Size Inches	Galv. Per Dozen	S. C. Per Dozen	Overall Dimensions Inches	Est. Wt. Per Doz. Pounds
3	\$1.50	\$1.15	1 16x 3/4	3/8
1/4	1.50	1.15	11/2×1	3/4
10	1.65	1.20	13/4×1 16	13/8
3/8	2.00	1.50	21/8×13/8	21/8
78	2.40	1.80	23/8×11/2	31/8
1/2 -	2.90	2.00	25/8×13/4	41/2
16	3.90	2.70	23/4×2	6
5/8	4.50	3.20	33/8×21/8	8
3/4	6.00	4.50	31/8×21/2	141/4
1/8	9.23	6.75	41/2×3	22
1	14.00	11.00	5 x33/8	32
11/8	16.50	13.50	55/8×33/4	40
11/4	21.50	17.50	61/8×41/4	57
13/8	27.00	24.50	63/4×43/4	75
11/2	34.00	30.00	71/4×51/8	103
15/8	41.00	37.00	8 x51/2	131
17/8	92.00	59.00	91/8×61/2	216

Note:  $\frac{3}{10}$ ,  $\frac{1}{4}$  and  $\frac{5}{10}$  inch sizes do not have interlocking

Swing Links

MALLEABLE IRON—WITH BRONZE RIVETS AND INTERLOCKING LUGS



		Fig. 7	84		
Size Inches	Galv. Per Dozen \$1.55	S. C. Per Dozen \$1.20	Length Overall Inches	Eye Per	eight Dozen unds 7/8
16 1/4 5 16	1.65 1.85	1.30 1.40	21/4	3/8   1/4	3/4
3/8	2.30 3.60	1.80 2.80	25/8 31/4	1/2 2 5/8 4	1/2
1/2 5/8	4.90 8.50 11.75	3.80 6.50 8.50	3 % 4 3/8 5 1/2	1/8 11	1/2

# Lap Links

GALVANIZED WROUGHT STEEL



Fig. 785

ize ches	Per Doz. \$ .40	Inside Dimensions of Link Inches   x 1/2   1/2 x 1/2	Size Inches 3/8 1/2	Per Doz. \$1.35 2.10	Inside Dimensions of Link Inches Inch
ī.	.94	11/2×1/8	1 400		



Jib Snaps

GALVANIZED MALLEABLE IRON AND BRASS



Fig. 765

Size No.	Galv. Each	Plain Brass Each	Extreme Length Inches	For Dia. Stay Inches	Weight Per 100 in Lbs.
0	\$ .25	\$ .30	15/8	1/4	10
1 2	.30 .35	.35 .45	23/8	3/8	121/2
3	.40	.50	23/4	. 1/3	21
4	.50	.75	3	7/8	233/4

Fast Eye Boat Snaps GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 612

Inside

Size No.	Galv. Each	Plain Eronze Each	Polished Bronze Each	Dia. Eye Inches	Extreme Length Inches	Weight Per 100 Pounds
0	\$ .25	\$ .35	\$ .55	3/8	2	. 5
1	.30	.40	.60	3/8	23/4	10
2	.35	.50	.75	3/4	31/4	131/8
3	.40	.65	1.00	3/4	37/8	261/4
4	.50	.90		1	41/8	271/2
5	.70	1.20	0.00	11/8	47/8	433/4
6	.80			.11/4	51/4	561/4

Swivel Eye Boat Snaps GALVANIZED-MALLEABLE IRON AND BRONZE



Fig. 613

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	Inside Dia. Eye Inches	Length	Weight Per 100 Pounds
1	\$ .50	\$ .55	\$ .85	5/8	31/4	11
2	.60	.65	.95	3/4	31/4	161/4
3	.75	.85	1.40	7/8	43/4	32
4	.90	1.00		1	51/4	37
5	1.10	1.25		11/8	6	60

Baby Snaps

POLISHED BRASS WITH FAST EYE



	Fig. 842	
Diam, of Eye	Polished Brass	Lengt
Inches	Each	Inche
3/8	\$ .15	17/8

**Baby Snaps** 

WITH OBLONG EYE ELECTRO GALVANIZED AND POLISHED BRASS



Fig. 1041

		Polished	St. St. St.
Size of Eye Inches	Galvanized Each	Brass Each	Length Inches
5/8× 16	\$ .08	\$ .12	13/4

Baby Snaps

WITH SWIVEL EYE MALLEABLE IRON-NICKEL PLATED



Fig. 1042

Diam. of Eye Inches Each \$ .15 3/8

Length 2

Swivel Eye Snap MALLEABLE IRON AND BRONZE



Fig. 659

Cadmium Plated Each	Plain Bronze Each	Extreme Length Inches	Inside Eye Inches	Inside Hook Inches	Weight Ounces
\$ .35	\$ .50	31/2	3/4	3/8	2

# Solid Brass Rings

POLISHED



10.00		Fig.	417		
Thickness Inches	Inside Diam. Inches	Per Dozen	Thickness Inches	Inside Diam. Inches	Per Dozen
32 32 32	1/2 5/8	\$ .70 .70	1/4 1/4	13/4	\$3.30 3.60
3 2 3 2 3 2	3/4 7/8	.85 .95	1/4 1/4	21/4 21/2	4.20 4.40
3 32 5 32	1 11/8	1.20 1.40	5 16 5 16	13/4	5.00 5.30
3 2 1 3 2	11/4	1.60 1.80	5 10 5 10	21/4 21/2	5.75 6.25
1/4	11/2	2.25	5 16 5	23/4	6.60 7.20

# Pick Up Buoys

GALVANIZED SHEET IRON





Fig. 234

Fig. 235

Pick up handle is riveted to body. Eye on bottom for rope. All double seamed and soldered.

Length shown does not include eye and handle.

Fig. 234

No. 1 2	\$6.00 7.00	Diam. Inches 9 12	Length Inches 14 18	Weight Pounds 4 5
		Fig. 235		
0	4.00	7	11	3
1	4.75	13	22	5
2	6.00	16	24	61/2

# Junior Mooring Buoy

FOR RUNABOUTS AND ALL SMALL BOATS
GALVANIZED



Fig. 318

Made of sheet steel with ½ inch forged steel galvanized rod through a galvanized pipe in body. Rod has eye on top and swivel on bottom. All the strain is on the

Load capacity, half submerged, 25 lbs. Equal to 35 feet of 1/2 inch chain.

		Diam. Body	Length Body
No.	Each	Inches	Inches
1	\$10.50	12	15

# Hold Fast Mooring Buoy



Fig. 445

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	Each \$16.00 20.00	Diam. Body Inches 13 17		Length Body Inches 22 27
	Length Overall Inches	Inside Diam. Eye Inches		ight inds

24

381/2

# 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.



Size Inches	With Bumper Each	Without Bumper Each
16 x 24	\$22.00	\$17.00
20 x 30	27.50	22.00
24 x 36	33.00	27.00
30 x 36	39.50	33.00

Size does not include swivel or eye.

Can also be furnished with % inch diameter buoy rod and swivel — add to above prices \$4.50 each.

Fig. 370

# Round Steel Mooring Buoys

21 INCH DIAMETER—14 GAUGE WELDED—TESTED



Fig. 1099 With Rod

Fig. 967 Without Rod

A complete sphere made of 14 gauge sheet steel. Will withstand the rigors of hard usage and last for years.

The rubber bumper is 1½ inch outside diameter. Heavy rubber hose held in position by welded clips.

Fig. 1099 with welded pad eye on top, steel rod through center and swivel on bottom, as illustrated. Fig 967 with pad eyes top and bottom welded to steel

snen, no rou.		DI-	1000
Without	With	Bumper	With
Bumper	Bumper	Without	Bumper
Each	Each	Each	Each
\$24.00	\$30.00	\$26.00	\$32.00
Inside	Inside	Weight	Weight
Welded Eye	Swivel Eye	Fig. 967	Fig. 1099
Inches	Inches	Pounds	Pounds
21/4×2	3½x2	35	38



# Non-Fouling Kedge Anchors

GALVANIZED DROP FORGED STEEL



The result of a great deal of experimenting and test-ing, 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

Weight Pounds	Galvanized Each	Length Overall Inches	Width Across Flukes Inches
5	\$ 4.70	17	10
10	5.75	25	15
15	6.90	29	18
20	7.80	31	19
25	8.75	35	20
30	10.00	36½	22
35	11.00	40	22
42	13.00	40	22
50	15.75	43	24½
60	18.75	44½	27½
75	23.50	46	28
100	31.25	50	32
125	39.00	57	32
150	47.00	59	34½
200	62.50	65 621/2	341/2
250	87.50		431/2

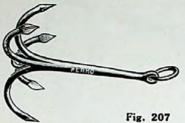
# Navy Type Anchors DROP FORGED SHANK—GALVANIZED



Weight		Weight	
Pounds	Each	Pounds	Each
5	\$2.10	50	\$13.50
10	3.25	60	15.50
15	4.25	80	21.00
20	5.25	100	26.00
25	6.75	125	32.00
30	7.75	150	38.50
35	9.00	200	52.00

### Grapnels

GALVANIZED DROP FORGED STEEL FIVE PRONG



	F	g.	207
-			

ounds	Each	Pounds	Each
4	\$3.45	15	\$5.30
7	3.90	20	8.25
10	4.35	25	15.00

Larger sizes-prices on application.

# Fishing Anchors

FOR SMALL BOATS



Fig. 1028

Weight Pounds	Self Colored Each	Galvanized Each	Diam. Inches	Height Inches
7	\$1.40	\$1.80	6	8
11	1.85	2.45	7	9
15	2.20	3.00	8	10

# Trawl or Sand Anchors

DROP FORGED STEEL-FAST STOCK



Fig. 364

Weight Pounds	Self Colored Each	Galvanized Each
8	\$3.30	\$3.75
12	3.90	4.65
15	4.25	5.15
20	5.15	6.25
25	6.25	7.65
30	7.50	9.10
35	8.65	10.50
40	9.75	12.00
50	11.60	14.10

Government Tolerance in Weight, Plus or Minus 5%

# "Danforth" Anchors

GALVANIZED STEEL



Fig. 700

Holding power from 30 to 200 times its own weight, compared to 2 to 6 times for old style anchors.

### Mark II Cast Anchors

Weight Pounds	Length Overall Inches	Each	Weight Pounds	Length Overall Inches	Each
17	261/2	\$14.00	55	43	\$37.50
30	35	17.00	75	49	45.00
43	39	33.00	100	50	55.00

Larger sizes-Price on application.

# Mark IV High Tensile Steel

A Mark IV of the same size and fluke area as a Mark II weighs only half as much as a Mark II and is much stronger because it is made of forged and rolled steel sections of heat-treated, high-tensile alloy steel.

The Mark IV can be safely used in place of a March II twice the weight.

Weight Pounds	Length Overall Inches	Each	Weight Pounds	Length Overall Inches	Each
5	21	\$ 7.50	17	341/4	\$22.00
10	271/2	13.50	25	391/2	33.00

Larger sizes-Price on application

# Mark V Rowboat Anchor

For small sailboats, outboards and rowboats. High ratio of holding power to weight. Made of carbon steel stampings.

Weight	Length	
Pounds	Inches	Each
41/2	187/8	\$3.50

The following tables suggest the size of Mark II anchor to be used on boats of average design under average conditions:

Lei	gth of I	Boat	A	В	C
20	ft			17 lbs.	30 lbs.
30	ft		17 lbs.	30 lbs.	30 lbs.
40	ft		30 lbs.	30 lbs.	43 lbs.
50	ft		30 lbs.	43 lbs.	55 lbs.
60	ft		30 lbs.	43 lbs.	75 lbs.
70	ft		43 lbs.	55 lbs.	75 lbs.

A—Anchor weight for normal holding ground, such as clay or sand, under average weather conditions.

B—For poor holding ground—deep soft mud or in anchorages with normal holding ground exposed to heavy seas.

C-Weight as a storm anchor in poor holding ground.

Note: Be sure to mention type number when ordering.

Mark II will be shipped unless otherwise specified.

FOR MALLEABLE IRON FOLDING ANCHORS FIG. 226, SEE PAGE 126

# **Northill Folding Anchors**

STAINLESS STEEL OR GALVANIZED STEEL GREAT HOLDING POWER—LIGHTWEIGHT

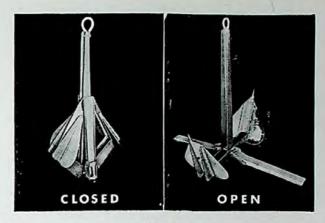


Fig. 441

Average holding power of 60 times their own weight; scientifically designed to hold. Saves weight, space, time and effort.

Weight Pounds 6	Galv. Steel Each \$38.50	Stainless Steel Each \$44.50	Holding Power Pounds 240	Comparati Kedge Pounds 35	ve Weight Stockless Pounds 60
12	48.50	58.50	720	100	180
20	58.50	88.50	1200	175	300
30		118.50	1800	260	450

# Northill Utility Anchors

HEAT TREATED DUCTILON—GALVANIZED NORTHILL HOLDING POWER AT LOW PRICE

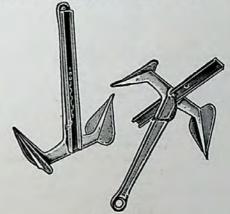


Fig. 1067

Has removable stock for compact stowage. These anchors have tremendous structural strength and the same proven scientific advantages as the original Northill folding anchors.

Type No. 3R	Galv. Each	Weight Pounds	Com- parative Weight Kedge Type Pounds	Com- parative Weight Navy Type Pounds
3R	\$ 8.50	6	30	50
6R	14.50	13	65	110
12R	25.50	25	130	225
20R	38.50	47	225	400
30R	56.50	75	350	610
50R	79.50	105	525	918



# Flexible Wire Tiller Rope

GALVANIZED OR BRONZE

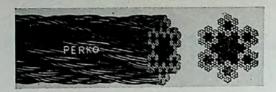


Fig. 760

Composed of 6 ropes and a hemp center. Each rope has 6 strands of 7 wires each and a cotton center.

Diam.	Galvanized	Bronze
Inches	Per 100 Ft.	Per 100 Ft.
1/8	\$ 3.50	\$ 6.00
18	14.00	15.00
1/4	15.00	18.50
3	16.00	22.00
3%	18.00	28.00
1/3	23.00	40.00

Supplied only in 250 and 500 foot coils. 16 inch size is constructed the same as Fig. 759 rigging.

# Galvanized Iron Rigging

FOR GUY ROPES



Composed of six strands and a hemp center, 7 wires

the strand.		
Diam.	Per	Circumference
Inches	100 Feet	Inches
1/8	\$3.50	3/8
137	4.50	1/2
1/4	5.50	3/4
3	7.00	1
3/8	9.00	11/8
Supplied on	ly in 250 and 500	foot coils.

# **Assorted Brass Pins**

FOR BLOCK SHACKLES, TURNBUCKLES, ETC.

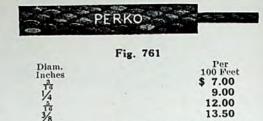


Fig. 1176

No.	Each	Diam. Pin Inches	Length Under Head Inches	Diam. Head Inches	Type Head
1	\$ .20	3.	1	1/4	Flat
2	.20	1/4	3/4	5	Flat
1 2 3	.22	12	1 3	30	Flat
4	.23	5	7/6	3/6	Flat
5	.25	3	11/2	3/8	Flat
6	.28	5	1 15	1/3	Flat
7	.30	3/6	14	1	Flat
8	.30	3%	1 35	1/2	Round
9	.35	3%	11/4	1/2	Round
10	.38	3%	13%	1	Flat
11	.40	13	1/7	1/2	Flat
12	.45	10	23/6	5/6	Flat
13	.50	12	116	5%	Flat
14	.50	12	11/	5%	Flat
15	.50	13	112	5%	Flat

# **Braided Tiller Rope**

WITH BRONZE CENTER



Supplied only in 250 and 500 foot coils.

### Assorted Sheaves

GALVANIZED IRON AND BRONZE COMMON BUSHED-FOR MANILA ROPE



Fig. 154

#### GALVANIZED

		Diam.	Thickness	For Rope	Size Pin
No.	Each	Inches	Inches	Inches	Inches 1/8
1	\$ .14	Inches 3/4	16	16	/8
2	.18	1	3/8	/4	/8
3	.21	11/4	3/8	16	16
4	.24	11/2	1/2	3/8	16
5	.30	13/4	16	16	/4
6	.35	2	5/8	1/2	1/4
7	.40	21/2	3/4	3/8	1/4 1 0 1 0 1 0
2 3 4 5 6 7 8	.21 .24 .30 .35 .40	3	7/8	3/4	18
		BRON	ZE	2.4	
9	.22	10	16	1/4	32
10	.24	3/4	3/8	1/4	16
11	.27	3/4	16	74 3 16	1/4
12	.30	7/8	16	3/8	16
14	.35	11/8	16	16	/4
15	.40	11/8	5/8	1/2	3/8
10 11 12 14 15 16 17	.45	11/4	70	716	2/8
17	.50	13/8	1/2	3/8	16
18	.60	13/4	13	16	1/4
19	.65	17/8	5/8	76	3/8
20	.90	21/4	1/2	3/8	3/8
18 19 20 21	.22 .24 .27 .30 .35 .40 .45 .50 .60 .65	6	1/8	5/8	3/4

# Folding Anchors

GALVANIZED MALLEABLE IRON



		rıg.	440		
Weight Pounds 6 8 10	Each \$ 3.85 5.20 6.45	Length Inches 19 22 23	Weight Pounds 30 35 45	Each \$17.00 20.00 25.50	Length Inches 34 36 38
12	7.50 9.25	25 28	55 76	31.00 41.50	41
20	11.85	30			

33

25

14.50



# Improved Tiller Rope Pulley

SWIVEL TYPE—WITH STRAP FORGED BRONZE—BAKELITE SHEAVE

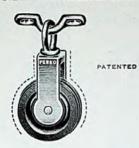


Fig. 585

Strength has been added but weight has been reluced. The bakelite sheave has a brass bushing for trength and smooth operation.

The unique swivel eye arrangement is a patented

Each

\$1.25

For Diam. Rope Inches	Length Overall Inches 33/8	Diam. Sheave Inches 13/4	Length Strap Inches 17/8	Weight Ounces 3
-----------------------------	-------------------------------------	-----------------------------------	-----------------------------------	-----------------------

# Tiller Rope Pulley

WITH STRAP-FORGED BRONZE



Fig. 579

For Rope Diam. Pulnches In
5 Plain
Bronze
Each

\$.95

Length Pulley Inches 15/8 in

Size Sheave Inches 3/4 x 7/6 Polished Bronze Each \$1.10 Length
Strap
Inches
178
Chromium
Plated
Each
\$1.85

# Tiller Rope Guides

UPRIGHT PATTERN-CAST BRONZE



Fig. 593

Polished Bronze Each Plated Each \$ .90 \$1.50

For Rope Diam. Inches Size Base Inches 7/8×11/2

Weight Ounces 2

# Tiller Rope Guides

SIDE PATTERN-CAST BRONZE



Fig. 594

For Rope Diam. Inches Size Base Inches 3/4 x l 15

Weight Oz.

Polished Bronze Each \$ .80 Chromium Plated Each \$1.40

Tiller Rope Guides
GALVANIZED CAST IRON OR BRONZE



Fig. 102

No. Size 1	Galv. Iron Each \$.20 .30	Plain Bronze Each \$.40 .50 .60	Polished Bronze Each \$.65 .75 1.00	Chrom. Plated Each \$1.80 1.90 -2.10	For Diam. Rope Inches	Diam. Base Inches 13/8 1116 13/4
3	.40	.60	1.00	2.10	/0	.,,

# Tiller Rope Guides

BRONZE



Fig. 359

No. 1 2 3	Size	Size	Plain	Polished	Chromium
	Hole	Base	Bronze	Bronze	Plated
	Inches	Inches	Each	Each	Each
	3/8	13/8 x 3/4	\$ .20	\$ .35	\$ .85
	1/2	11/2 x 7/8	.30	.45	.95
	5/8	13/4 x 11/4	.40	.55	1.15
		drop forge	d bronze.		

# Tiller Rope Guides

GALVANIZED CAST IRON OR BRONZE OVAL PLATE



Fig. 599

Size No. 1	Size Hole Inches	Size Base Inches 13/8 x 1/8 11/2 x 1/8	Galv. Iron Each \$ .12 .14	Plain Bronze Each \$ .20 .25	Pol. Bronze Each \$ .35	\$ .85 .90
No.	1 size	is drop for	.18 orged bi	.30	.45	1.05



# Fast Eye Blocks

GALVANIZED MALLEABLE IRON OR BRONZE SINGLE

Without Becket





135

7 9

11

13 15



Fig. 54

Q
( § 0
0

2	Galv. Each	Plain Bronze Each	Pol. Bronze Each	For Rope Diam. Inches	Size Sheaves Inches	Weight Each Pounds
	\$ .15 .20 .30	\$ .25 .30 .45	\$ .45 .55 .75	3 1/4 1/4 5	3/4 x 10 1 x 3/8 1 1/4 x 10	32 33 16 1/4
	.40 .50 .70	.55 .80 1.05	.90	3/8 1/6 1/2	$\begin{array}{c} 1 \frac{1}{2} \times \frac{1}{2} \\ 1 \frac{3}{4} \times \frac{0}{10} \\ 2 \times \frac{5}{8} \end{array}$	3/8 1/2 5/8
	1.20			5/8 3/4	21/2×3/4 3 ×3/8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

# Loose Hook Blocks

GALVANIZED MALLEABLE IRON BODY FORGED STEEL HOOKS SINGLE

Without Becket

With Becket



N.	
B	
D PR PKO	

Weight Each

Pounds

Fig. 52		Fig. 56
Size	Length	For Rope
Galvanized	of Shell	Diameter
Each	Inches	Inches
\$ .75	11/2	16
.80	15/8	1/4
.90	2	16
1.00	23/8	3/8
1.30	3	7
1.75	23/8 3 31/4	1/2
2.25	4	5/8
3.25	43/8	3/4
Size of She	ave same as	Fig. 43.

# Fast Eye Blocks

GALVANIZED MALLEABLE IRON DOUBLE

Without Becket



Fig. 51



With Becket

Fig. 55

Size No.	Galv. Each	Plain Bronze Each	Pol. Bronze Each	For Rope Diam. Inches	Size Sheaves Inches	Weight Each Pounds
2 4 6	\$ .20 .30 .45	\$ .50 .70 .95	\$ .70 1.00 1.40	10 1/4 5 10	3/4× 10 1 ×3/8 1 1/4× 10	11/4 1/4 3/8
8 10 12	.55 .80 1.05	1.10	2.00	3/8 1/0 1/2	$\begin{array}{c} 1 \frac{1}{2} \times \frac{1}{2} \\ 1 \frac{3}{4} \times \frac{9}{10} \\ 2 \times \frac{5}{8} \end{array}$	3/8 11/4
14 16	1.65 2.50			5/8 3/4	21/2×3/4 3 ×3/8	2 1 2 3/4

# Loose Hook Blocks

GALVANIZED MALLEABLE IRON

Without Becket

11

13

15





With Becket

	Fig. 53		Fig. 58	
Size No. 2 4 6	Galvanized Each \$ .90 1.00 1.15	Length of Shell Inches	For Rope Diameter Inches	Weight Each Pounds 1/4 3/8 1/2
8 10 12	1.25 1.65 2.10	23/8 3 31/4	3/8 10 1/2	7/8 1 11/2
14 16	2.90 4.00 Size of She	4 43/8 ave same as	5/8 3/4 Fig. 51.	2½ 3¾



0 1 3

# Perkins Marine Lamp & Hardware Corp. 129

# Swivel Eye Blocks

GALVANIZED MALLEABLE IRON OR BRONZE

Single



Fig. 100

Diam. Rope Inches	Shell Inches	Sheave Inches	Per Don.
16	1	1/3	1/3
1/4	13%	1 3/4	2 2
1 6 3 6	2 21/4	11/4	27/8
78 Galvan		Plain	Polished
Iros Eac	n	Bronze Each	Bronze Each
\$ .2	0	\$ .55	\$ .85
.2		.55 .65	.85 .95
.4	5	.90	1.25
.5	5	1.00	1.60

# Swivel Eye Blocks

GALVANIZED MALLEABLE IRON OR BRONZE

Double



Fig. 101

Length

For

Diameter

No. 00	Inches	Inches	Inches	in Lbs.
2 4	116	11/4	3/4	21/4
6	74 35	13/4	11/4	41/2
8	3/8	21/4	11/2	7
Size	Galyani		Plain	Polished Bronze
No.	Iron Each		- Bronze Each	Each
00	\$ .30		\$ .70	\$ .95
2	.35		.75	1.00
4	.45		1.00	1.40
6	.55		1.95	2.35
8	.90		2.50	3.25

# Heavy Steering Rope Pulleys

CAST BRONZE—PLAIN FOR WIRE ROPE

The sturdy construction answers the demand for a larger and stronger tiller rope pulley. The sheave pin is % inch diameter bronze rod.

#### SIDE PATTERN



Fig. 962

For Wire Rope Diameter Inches \$12.00

Diameter Sheave Inches Length of Plate Inches

Weight Pounds 51/2

#### UPRIGHT PATTERN

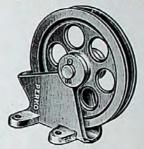


Fig. 963

Plain Wire Rope Diameter Each Inches \$12.00

Diameter Sheave Inches 6

eter Height ve Overall les Inches

Weight Pounds 51/2

Side Pulleys
GALVANIZED CAST IRON OR BRONZE



Fig. 97

Size No.	Galv. Each	Pol. Bronze Each	Size Base Inches	Diam. Rope Inches	Weight Per Doz. in Lbs.
1	\$ .25	\$ .60	3/4×2 18	1/4	13/8
2	.35	.70	7/8×2 ₩	16	2
3	.45	.90	1 x33/8	3/8	31/4

# Blocks on Plates

GALVANIZED MALLEABLE IRON OR BRONZE



-		-	-
Fig.	-1	u	7

ze o.	Galv. Each \$ .60 .70 1.00 1.20	Plain Brass Each \$1.35 1.55 1.75	Pol. Brass Each \$2.00 2.25 2.60	16	Style Block Swivel Eye Swivel Eye Swivel Eye Fast Eye	Weight Per 100 in Lbs. 20 35 66 72
,	1.20	*******	*********	16	I doc Ly c	The Country of the Co



## **Deck Blocks**

OPEN PATTERN
GALVANIZED IRON OR BRONZE
SINGLE



Fig. 87

Size No.	Mall. Iron Each	Cast Iron Each \$ .25	Plain Bronze Each \$ .60	Pol. Bronze Each \$ .90	Inches	Size Sheave Inches
1	.45	.30	.75	1.00	3/8	1/2x/2
3	.75	.50	1.25	2.00	1/2	2 x 3/8
5	1.25	.95	2.50	3.00	3/8	21/2×3/4
7	1.90	1.50	3.50	4.50	5/8 3/4	3 x1/8
(	Cast iron	furnished	unless oth	erwise s	pecified.	

#### Deck Blocks

OPEN PATTERN
GALVANIZED IRON OR BRONZE
DOUBLE



Fig. 88

Size No.	Mall. Iron Each	Cast Iron Each	Plain Bronze Each	Pol. Bronze Each	For Diam. Rope Inches	Size Sheave Inches
2	\$ .70	\$ .50	\$1.25	\$1.75	3/8	11/2×1/2
4	1.25	1.00	2.25	3.00	3/8 1/2 5/8 3/4	2 x 3/8
6	2.25	1.75			3/8	21/2x3/4
8	3.00	2.50			3/4	3 x1/8
Ca	st iron	furnished	unless oth	erwise s	pecified.	

### Cheek Blocks

GALVANIZED MALLEABLE IRON OR BRONZE SINGLE



Fig. 95

Size	Calm	Plain Bronze	Pol. I Bronze	For Diam, Rope	Size Sheave	Wgt.
No.	Galv. Each	Each	Each	Inches	Inches	Lbs.
0	\$ .40	\$ .60	\$ .85	1/4	1 x3/8	3
1	.50	.75	1.00	16	13/8× 10	1/4
	.60	.85	1.25	3/8	11/2×1/2	3/8
3	1.15	1.35	1.90	1/2	2 x5/8	3/4
.4	1.50	1.90	2.65	5/8	21/2×3/4	11/4
5	2.50	-		3/4	3 x7/8	2
6	4.00			7/8	31/2×1	4

### Bell Chain Leaders

CAST BRONZE-PLAIN



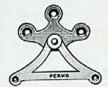


Upri	ght Type-	-Fig. 91	2 Flat	Type-F	g. 913
Diam. Sheave Inches 2	Width of Groove Inches	Single Sheave Each \$1.50	Double Sheave Each \$2.25	Triple Sheave Each \$3.25	Quadruple Sheave Each \$4.00 7.00

## **Bell Cranks**

CAST BRONZE-PLAIN





Upright Type-Fig. 910 Side Type-Fig. 911

No.	Upright Type Each \$1.25	Side Type Each \$1.10	Length of Crank Inches
2	1.50	1.35	31/4
3	2.00	1.85	33/4

# Brass Telegraph or Bell Chain

Links are stamped from heavy gauge brass, fastened together by brass rivets, which are finished flush with side of link. Furnished in any continuous length desired, complete with end links both ends.

Made to comply with U. S. Navy Specifications.



Fig. 275

er Foot	Length of Links Inches	Thickness Overall Inches	Pitch Inches 3/8	Weight per Foot Ounces 31/2
\$ .65	3/4	3.2	78	-/2

### Cheek Blocks

GALVANIZED MALLEABLE IRON OR BRONZE
DOUBLE



Fig. 96

			Fig. 90				
Size No.	Galv. Each	Plain Bronze Each	Bronze Each I	r Diam. Rope Inches	Size Sheave Inches	Wgt. Lbs.	
11	\$ .85	\$1.20	\$1.60		178× 16		
12	1.10	1.75	2.00	3/8	1/2×/2	1 16	
13	1.65	2.60	3.25	1/2	2 x 3/8	11/2	

# PERKO

### Deck Blocks

FOR WIRE ROPE
GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 139

Size No. 1 2	Galv. Each \$ .60 1.10 2.50	Plain Bronze Each \$1.25 2.25 4.00	Polished Bronze Each \$2.00 3.00 5.25	For Diam. Rope Inches 1/4 - 1/6 3/8	Size Sheave Inches 17/8 x 1/6 3 x 1/6 4 x 5/8	Weight Each Pounds 5/8 13/8
3 1/2	3.00			1/2	41/2×3/4	41/4
4	3.50			3/8	5 x 1/8	51/4
5	5.25			3/4	6 x1	81/2

# Wire Rope Pulleys

GALVANIZED MALLEABLE IRON OR BRONZE SINGLE—SIDE PATTERN

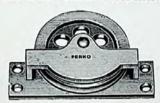


Fig. 194

Size No.	Galv. Each \$ .70	Plain Bronze Each \$1.50	For Diam. Rope Inches	Size Sheave Inches 21/2 x 3/8	Weight Each Pounds
2	1.00	2.00	/4	3/4x/2	1 1/4
3	2.00	3.25	5-3/8	41/2× 16	23/8

# Wire Rope Pulleys

GALVANIZED MALLEABLE IRON OR BRONZE SINGLE—UPRIGHT PATTERN



Fig. 279

No. 10 20 30	Galv. Each \$ .70 1.00 2.00	Plain Bronze Each \$1.50 2.00 3.25	For Diam. Rope Inches  16 14 5-3/8	Size Sheave Inches 2½x3/8 3¼x½ 4½x1/2	Weight Each Pounds 5/8 11/2 21/2
-----------------------	-----------------------------------------	---------------------------------------------------	------------------------------------	------------------------------------------------------	-------------------------------------------------

## Cheek Blocks

FOR WIRE ROPE GALVANIZED CAST IRON OR BRONZE



Fig. 140

Size No. 1 2	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	Size Sheave Inches 17/8 x 1/3 3 x 1/6 4 x 5/8	Weight Each Pounds 5/8 13/8 23/4
31/2	2.25			1/2	41/2×3/4	41/4
4	2.75			5/8	4 x1/8	51/4
5	4.75		(30)	3/4	6 x1	11

# Wire Rope Pulleys

GALVANIZED MALLEABLE IRON OR BRONZE
DOUBLE—SIDE PATTERN



Fig. 195

Size No.	Galv. Each	Bronze Each	Rope Inches	Sheave Inches	Each Pounds
11	\$1.15	\$2.25	3	21/2×3/8	11/8
12	1.75	3.00	1/4	31/4×1/2	2
13	3.25	4.50	510x3/8	41/2× 16	41/4

# Wire Rope Pulleys

GALVANIZED MALLEABLE IRON OR BRONZE DOUBLE—UPRIGHT PATTERN



Fig. 280

Size No. 110 120	Galv. Each \$1.15 1.75	Plain Bronze Each \$2.25 3.00	For Diam. Rope Inches	Size Sheave Inches 21/2×3/8	Weight Each Pounds 11/8
130	3.25	4.50	10-3/8	41/2× 16	41/4



## BRONZE BLOCKS FOR SAIL BOATS

DROP FORGED BRONZE SHELLS AND SHEAVES-PLAIN BUSHED-INTERCHANGEABLE FITTINGS

Drop forged bronze shells and sheaves give great tensile strength, light weight, free turning sheaves and fine smooth finish in plain or polished, free from sand holes or rough inside surfaces.

## Block Only With Removable Screw Pin



	NO I	FITTINGS	
Size	Plain	Polished	For Diam. Rope
No.	Each	Each	Inches
0	\$1.20	\$1.35	4-10
1	1.60	1.75	3/8
1 2	2.25	2.50	16
Size No.	Length Overall Inches	Size of Sheave Inches	Weight
0	21/8	8× 18	3/3
1	23/8	13/8×1/2	41/2
2	31/4	17/8×5/8	10

## Front Shackle Block



SINGLE OF
-----------

	Co	mplete	-Shackle	with Link-
Size	Plain	Polished	Plain	Polished
No.	Each	Each	Each	Each
0	\$2.15	\$2.35	\$ .80	\$ .90
1	2.55	2.85	.90	1.00
2	3.45	3.85	1.10	1.25

For dimensions and other data, see Fig. 850.

For shackles only, see Fig. 893.

Fig. 851

# Side Shackle Block



SINGLE ONLY

	Co	molete	-Shackle	with Link-
Size No.	Plain Each	Polished Each	Plain Each	Polished Each
0	\$2.15	\$2.35	\$ .80	\$ .90
1	2.55	2.85	.90	1.00
2	3.45	3.85	1.10	1.25

For dimensions and other data, see Fig. 850.

For shackles only, see Fig. 893.

Fig. 854

# Block With Eye Strap



Fig. 861

SINGLE ONLY

	—Cor	nplete	-Strap	with Link-
Size	Plain	Polished	Plain	Polished
No.	Each	Each	Each	Each
0	\$2.15	\$2.35	\$ .80	\$ .90
1	2.55	2.85	.90	1.00
2	3.45	3.85	1.10	1.25

For dimensions and other data, see Fig. 850.

For straps only, see Fig. 881.

# Upset Front Shackle Block



SINGLE ONLY

Complete-	Shac	kle with Link-
2.55 2.5	85 .9	0 1.00
3.45 3.8	85 1.1	0 1.25
	Each Each Each 2.15 \$2.55 2.55	2.15 \$2.35 \$ .8 2.55 2.85 .9

For dimensions and other data, see Fig. 850.

For shackles only, see Fig. 893.

Fig. 852

# Upset Side Shackle Block



SINGLE ONLY

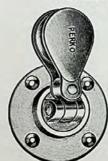
	Co	mplete-	-Shackle	with Link-
Size No.	Plain Each	Polished Each	Plain Each	Polished Each
0	\$2.15	\$2.35	\$ .80	\$ .90
1	2.55	2.85	.90	1.00
2	3.45	3.85	1.10	1.25

For dimensions and other data, see Fig. 850.

For shackles only, see Fig. 893.

Fig. 855

# Swivel Deck Leader



	~				
Size No.	Con Plain Each	nplete— Polished Each	-with	Link- Polished Each	
0	\$3.85	\$4.25	\$2.60	\$2.85	
1	4.50	5.00	2.80	3.15	
2	6.25	7.00	3.85	4.25	
Size No.	1	Diam. Bas	e	Weight Pounds	
0		21/4		1/2	
1		23/		3/4	

31/4

11/3

SINGLE ONLY

Fig. 864

# Lightweight Block

2



WITH FRONT SHACKLE SINGLE ONLY

No. Plain Rope Weight Ounces

0 \$1.25 \frac{1}{4} - \frac{5}{16} 3 \frac{1}{2} 4

With becket, add \$ .35 each. For dimensions, see Fig. 850.

For shackles only, see Fig. 893.

Fig. 432



#### **Bullet Blocks**

FOR JIB SHEETS AND LEADERS DROP FORGED BRONZE



Fig. 869

Dull Finish Each	Polished Each	For Rope Diam. Inches	Size Sheave Inches	Weight
\$ .80	\$ .90	76	3/4 x 1/6	2
1.05	1.15	3/8	1/8×1/2	21/2
1.30	1.40	70	11/8×3/8	5

# Jib Halyard Blocks on Strap

0			BRONZE	C	
0	No.	For Rope Diam. Inches	Size Sheave Inches	Length Strap Inches	Weigh
B	0	5 16	3/4 x 18	21/2	31/2
	1	3/8	7/8×1/2	21/2	4
A		No.		Plain Each	.5
MAIN		0		\$1.25	
		1		1.50	

# Centerboard Blocks

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 827

					1000
No.	Galvanized Each	Plain Bronze Each	Polished Bronse Each	Sine Rope Inches	Sise Sheave Inches
1	\$ .80	\$1.50	\$2.00	3/8 1/2	11/2×1/2
2	1 50	2 50	3.00	1/3	2 x 3/8

# Bronze Block Shackles



Fig. 893

Fig. 899

# Swivel Eye Bullet Blocks

DROP FORGED BRONZE



With unique patented swivel arrangement, no wear

For jib sheets or halyards on small sail boats.

Dull Finish Each	Polished Each	Length Shell Inches	Size Sheave Inches 3/4 × 3/6	For Diam, Rope Inches	Weight Ounces 21/2
\$1.15	\$1.50	15/8	3/4×3/8	16	21/2

# Swivel Eye Block on Plate

BRONZE



Fig. 935

This is our swivel eye bullet block mounted on brass

ite, for deck	Length	Width	Weight
Plain Each	Plate Inches	Plate Inches	Complete Ounces
\$1.55	21/4	3/4	31/2

# Swivel Eye Block on Slide

Fig. 936

Our swivel eye bullet block mounted on cast bronze slide for quick and easy adjustment of jib sheet lead.
Slide has large head thumb screw for fastening in position with fingers.
Furnished complete with 24 inches of % inch nickel

ver track.			
	Length	Width	Weight
Plain	Slide	Slide	Complete
Each	Inches	Inches	Ounces
\$2.70	13/4	-1	71/2



# Eye Plates CAST BRONZE



Fig. 880

No.	Plain Each	Length Plate Inches	Opening of Eye Inches	Stock in Eye Inches
1	\$ .90	31/8.	16x 3/4	10 11 31 3/8
2	1.25	31/2	1/2 x 7/8 5/8 x 1 1/3	37
3	1.75	41/8	3/8×1 10	3/8

# Eye Straps

DROP FORGED BRONZE



No.	Plain Each	Polished Each	Length Inches	Size Eye Inches	Stock in Eye Inches
0	\$ 25	\$ .35	2	16	3
1	.30	.45	21/4	3/8	1/4
2	.35	.50	23/4	1/2	16
3	.50	.70	31/8	1/8	16

# Deck Straps

CAST BRONZE



Fig. 882

No.	Plain Each	Polished Each	Length Inches	Size Eye Inches	Stock in Eye Inches
1	\$ .55	\$ .70	31/2	1/2	5 16
2	.70	.80	41/4	7.6	3/8
3	.90	1.10	43/4	3/8	16

# Screw Eye on Plate

CAST BRONZE-POLISHED



Fig. 1035

Furnished with a flush plug to screw in place when eve is removed.

For all leader blocks and other items requiring easy removal from deck.

No	Each Complete	Inside Diam. Eye Inches	Diam. Thread Inches	Diam. Plate Inches	Weight Ounces
1	\$3.50	3/4	1/2	27/8	10
2	3.80	MODE BOTTO	1/2	27/8	121/2

# Halyard Fairleaders

POLISHED BRONZE



Fig. 580

Designed for main halvards on small boats this fitting has many other uses. Will not chafe rope.

	6 - 201		For Diam.	****
Polished Each	Length Inches	Width	Rope Inches	Weight
\$ .55	21/4	3/4	3/8	21/2

# Single Flare Lip Leaders

CAST BRONZE



Fig. 764

No.	Plain Each	Polished Each	Opening Inches	Weight
1	\$ .30	\$ .50	1/2	11/2
2	.50	.95	1/2	3

# Double Flare Lip Leaders

CAST BRONZE



		Fig. 889		
No.	Plain Each	Polished Each	Opening Inches	Weight
0	\$ .30	\$ .50	3/8	3/4
1	.40	.75	1/2.	12/
2	.50	.95	3/8	13/4

# Adjustable Jib Sheet Leaders

CAST BRONZE



Fig. 1114

One solid casting with large head thumb screw for fastening with fingers. Furnished complete with 24 inches of % inch nickel silver track.

Plain Each	Length Inches	Size Eye Inches	Complete Weight Ounces
\$1.25	17/8	3/4×3/8	6



## **Automatic Jam Cleats**

CAST BRONZE-POLISHED

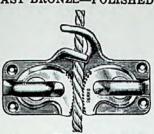


Fig	895

Each	Rope Inches	Base Inches	Weigh
\$3.75		31/2×11/2	10
6.50	$\frac{1}{4} - \frac{5}{16}$ $\frac{3}{8} - \frac{1}{2}$	51/8×13/4	16

# Improved Jam Cleat



Fig. 1190

Something new in a jam cleat that really jams and olds.

Polished
Each
\$2.00
Ψ2.00

Length Inches

For Rope Inches up to 1/4

Weight Ounces 4

# Racing Jam Cleats CAST BRONZE



Fig. 762

Polished	Length	For Size Rope	Weight
Each \$2.50	Inches 31/2	Inches	Ounces 5
2.75	4	3/8	8
3.65	6	1/2	18

# **Double Jam Cleats**

CAST BRONZE-POLISHED



Fig. 1030

Each	Overall Length Inches	Width	Weigh
\$ .80	4		4
1.00	. 5	1/2 5/8	6

# Roller Jam Cleats

CAST BRONZE



Fig. 894

10000				
No. 1 2	Pollshed Each \$1.75 2.50	For Diam. Rope Inches 1/8 to 1/4 1/4 to 3/8	Extreme Length Inches 4 51/4	Weight Ounces 4 8

# Sheet Snubbing Winches CAST BRONZE—POLISHED



A one way action winch which greatly reduces the strain of hauling on sheets or halyards.

Action of head is clockwise only for hauling in. But same is carefully machined and highly polished to allow free running of sheet when let out.

No.	Polished Bronze Each	Chromium Plated Each	Height Inches	Diam. Drum Inches	Diam. Base Inches	Weight Pounds
0	\$5.00	\$7.00	21/8	1	21/8	1
01	5.75	7.75	21/8	11/4	21/8	13/4

# **Belaying Pins**

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 366

Diam. Shank Inches	Galv. Each	Polished Bronze Each	Length Head Inches	Extreme Length Inches	Weight Each Pounds
3/8	\$ .50	\$2.00	3	8	3/8
1/2	.90	2.50	35/8	91/2	3/4
5/8	1.00	3.45	33/4	101/4	1
3/4	1.25	4.35	41/4	11	13/4

## Inclinometer

CHROMIUM PLATED



Fig. 29

Instantly indicates the degree of heel. A good feature for sailboat owners and an attractive addition to a sailboat's equipment.

Made of zinc alloy and finished in chromium plate, highly polished.

Complete with chromium plated screws.

Each	Width Inches	Height Inches	Weight
\$2.50	5	3	4



### Bronze Goosenecks

CAST BRONZE-PLAIN



Fig. 883



Fig. 884

Boom straps are measured from outside to outside of straps, as they are mortised into the side of the boom so as to be flush with the boom surface.

No.	Fig. 883 Each \$8.00	Fig. 884 Each \$9.50	Diam. Inches	Boom End Inches	Weight Pounds 23/4 31/2	
2	8.00	9.50	4 to 41/2	21/4	31/2	

#### Bronze Goosenecks

WITH FLAT PLATE FOR SQUARE MASTS MANGANESE BRONZE—PLAIN

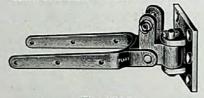


Fig. 1034

The trend in design for masts is changing from the old style round mast to the modern square, rectangular or T shaped mast, hence a gooseneck with a flat plate is necessary.

		Width of	Length of	Diameter	
	440.00	Plate	Plate	Boom end	Weight
No.	Each	Inches	Inches	Inches	Pounds
1	\$8.00	2 -	3	13/4	23/4
2	8.00	3	4	21/4	23/4 31/2

# "Snipe" Goosenecks

BRASS STRAPS-BRONZE MAST PLATE





und Mast

With	With
Plate for Square Mast	Plate for Ro
Fig. 888	Fig. 8

Plain Brass Each \$3.25	Plain Plates Only Each \$1.25	Width Plate Inches 2	For Boom Inches	 Weight Each Pounds
\$3.25	\$1.25	2	1 to 1/2	1/2

When ordering, specify whether for square or round mast.

# Sliding Gooseneck

NATIONAL ONE DESIGN CLASS BRONZE

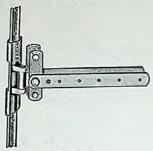


Fig. 452

Furnished without track.

Slide is cast bronze, boom straps are wrought brass. This fitting is as light in weight as possible while retaining all necessary strength.

	Width	Length	For	30 2 00
	Between	Inside	Mast	Weight
Plain	Straps	Straps	Track	Each
Each	Inches	Inches	Inches	Pounds
\$3.25	3/4	6	5/8	3/4

# Sliding Gooseneck

BRONZE

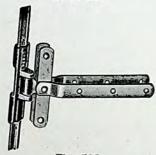


Fig. 592

Furnished without track.

Slide is cast bronze, boom straps are wrought brass. Straps can be adjusted for booms smaller than 2 inch diameter.

	Width Between	Length Inside	For Mast	Weight
Plain	Straps	Straps	Track	Each Pounds
Each	Inches	Inches	Inches	Lounds
\$3.75	13/4	6	3/8	.1

# Small Boat Goosenecks

CAST BRONZE



Fig. 658

A good strong fitting made of high grade bronze but low priced for the pocketbook of the small boat owner.

Plain Each	For Diam, Mast Inches	Length of Screw Inches	Diam. of Screw Inches	Weight Ounces
\$2.00	23/4	33/4	3/8	6



### **Boom Travelers**

CAST BRONZE FOR MAIN SHEET BLOCKS ON BOOMS

FOR RECTANGULAR BOOMS



Fig. 1112

Fastened by one rivet and two screws.

Plain Each \$ .55 For Thickness Room Inches 11/2 to 13/4

Weight Ounces 21/2

#### FOR T BOOMS



Fig. 1113

Fastened with two rivets.

Plain \$ .50 For Thickness Boom Inches 3/4 to 1

Weight Ounces 11/2

# Boom Travelers

CAST BRONZE-FOR ROUND BOOMS



Fig. 878

Diam. Boom	Plain Each	Width of Plate Inches	Weight Ounces
2	\$1.30	11/4	3
21/2	1.40	11/2	4
3	1.75	17/8	7

## Snipe Travelers

GALVANIZED IRON OR BRASS



Fig. 271

Galv. \$1.25

Plain Brass Each \$1.90

Size Inches 3/8×18 Height Above Inches

Weight Pounds 11/2

Each

\$12.00

### Clew Outhaul

CAST BRONZE-PLAIN



Fig. 1047

For Track Inches Rach \$1.50

Jaw Opening Inches 3/8

Length Inches 13/4

Height Inches Weight Ounces 31/2 11/2

# Self Locking Clew Outhaul

CAST BRONZE INSTANT RELEASE-LIGHTWEIGHT FOR SMALL BOATS

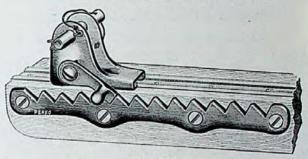


Fig. 817

Grab the pin, haul out as far as necessary and it automatically locks in place.

Can be released instantly by raising the pawl. The pin is made extra long for grasping.

Weight Per Set Ounces Length Ratchet Length Pin For Ratchet Track Inches Plain Per Set Only Inches Inches 21/2 10 \$3.50 \$1.50

# Snipe Centerboards

GALVANIZED IRON



Fig. 134

Size 36x21x 10 Weight Pounds

32



# **Everdur Rigging Turnbuckles**

ALL EVERDUR BRONZE

S. A. E. THREADS—HEXAGON BODY LIGHTWEIGHT—GREAT STRENGTH



Fig. 917

We believe this to be the strongest bronze turnbuckle of its size manufactured.

The use of Everdur bronze enabled us to produce a very strong lightweight turnbuckle for small boats. 1/4 inch, weight 31/2 oz. Approx. strength 2,500 lbs. 1/4 inch, weight 5 oz. Approx.-strength 5,000 lbs.

Size		Pin	Jaw	
Thread Inches	Plain Each	Open Inches	Closed Inches	Opening Inches
1/4	\$1.75	71/2	51/8	3
1/4 16	2.20	91/2	6	1/4
With che	ck nuts, add	\$ .20 to eac	ch turnbuc	kle.

# **Bronze Rigging Turnbuckles**

DROP FORGED-WELDLESS

S. A. E. THREADS



Fig. 459

These are drop forged from special high strength solid bronze bars giving unusual strength as shown in table below.

With Two For Diam Weight

Size Inches 1/4 16 3/8 1/2 5/8		Plain Each \$2.75 3.00 4.00 5.50 7.25	Check No Add \$ .15 .20 .25 .40 .45	Wire Rope Inches	
Size Inches 1/4 5 16 3/8 1/2 5/8	Jaw Opening Inches 1/4 5/8 1/2 5/8	Diam. Pin Inches 1/4 5-1-6 3/8 1/2 5/8	Center t	agth to Center Pins Closed Inches 61/4 71/2 83/4 101/2	Ultimate Strength Pounds ,2450 3840 6075 11100 18000

# Combination Release Hook and Turnbuckle

BRONZE



Fig. 1193

Plain Each	Size Thread Inches	Length Closed Inches	Opening in Jaw Inches	Weight
\$3.25	10	5	1/4	6

# Small Boat Chain Plates

CAST BRONZE



Fig. 629

Plain Each	Length Inches	Thick- ness Inches	Weight Ounces
\$ .75	6	1/4	7

# "Snipe" Chain Plates

BRASS



Fig. 143

Plain	Polished	Size	Weight
Each	Each	Inches	Ounces
\$ .85	\$1.20	101/2x1x1/8	6

### Chain Plates

GALVANIZED DROP FORGED STEEL OR BRONZE



Fig. 569

Length Under Eye Inches 4 5	Galv. Each \$ .35 .40 .45	Plain Bronze Each \$1.30 1.50 1.65	Size of Plate Inches 3/4 x 3/6 7/8 x 3/6 1 x 3/6
8 10 12	.55 .85 1.10	2.00	$\begin{array}{c} 1 \frac{1}{8} \times \frac{1}{4} \\ 1 \frac{5}{16} \times \frac{5}{16} \\ 1 \frac{5}{16} \times \frac{5}{16} \end{array}$
14 16 18 20	1.65 2.00 2.20 3.00		$\begin{array}{c} 1 \ \frac{5}{16} x \ \frac{5}{16} \\ 1 \ \frac{13}{16} x \ \frac{5}{16} \end{array}$

# Foot Rope Plates

CAST BRONZE



Fig. 568

Lengt Under F Inche	Lye Bronze	Size Plate Inches	Inside Diam. Eye Inches	Diam. Metal in Eye Inches	Weight Pounds
4 5	\$1.30 1.50	1 x 1/4	5/8 3/4	1/4 10	3/8 1/2
6	1.75	1 x 1/4	7/8	16	2/4



# Mast Shroud Tangs

CAST BRONZE-PLAIN



Fig. 387

For the mast shroud of small sail boats. Drilled for fastening by rivet and screws.

Each \$ .60	For Wire Inches	Length Inches	Width Inches	Weight Ounces 21/2
4 .00	/0 10 -		, 0	

# "Snipe" Stay Tangs

ALL BRASS



SINGLE Fig. 47



DOUBLE Fig. 57

Commonly used for attaching standing rigging to mast on snipe and similar classes of sail boats.

Fig. No. 47	Plain Brass Each \$ .70	For Diam, Rope Inches	Diam. Straps Inches 3/4×4	Diam. Bolt Inches	Wood Thick- ness Inches 2	Wt. Each Lbs. 1/8
57	1.25	3 16	3/4×4	1/4	21/8	1/4

# Lightweight Tang

WROUGHT BRASS



Fig. 798

For stays and rigging on small boats.

Plain Each \$ .50	Length Inches	Width Inches	Thick- ness Inches	Diam. Hole Inches	Weigh Ounces
<b>9</b> .50	,	78	78	10	

## New Masthead Sheave

BAKELITE WITH BRASS BUSHING LIGHTWEIGHT



		10000	and the second second		
Inside Diam. Inches	Plain Bronze Inches \$1.40 1.50		Width Inches	Diam. Holes Inches	Weight Pounds
2 21/4 21/2	1.60 1.80 2.00		3/4 3/4 3/4	3/8 3/8 3/8	3/4

# Rigging Cleats

CAST BRONZE-PLAIN



Fig. 879

No.	Each	For Diam. Mast Inches	Size Overall Inches	Weight Ounces
1	\$ .50	21/2	21/2×11/4	21/2
2	.65	3	33/8×15/8	4
3	.90	4	4 x17/8	5

# Marconi Headboards

ALUMINUM ALLOY



Fig. 462

Headboards improve the set of the sail and are almost indispensable on Marconi Rigs.

No. 0	Each \$1.40	Measurements Inches 37/8 x 33/8	Weight Ounces	For Class Boat Star
1	1.75	41/4×37/8	5	Atlantic
2	2.50	51/2×51/4	7	6 Meter



# **Everdur Rigging Turnbuckles**

ALL EVERDUR BRONZE S. A. E. THREADS-HEXAGON BODY LIGHTWEIGHT-GREAT STRENGTH



Fig. 917

We believe this to be the strongest bronze turnbuckle of its size manufactured.

Fig. 343

Angle is 70 degrees.

Length Straps Inches 35/8	Extreme Width Inches	Dlam. Center Hole Inches	Diam. Forward Hole Inches	Weight Ounces 8
Plain Bronze Each		Polished Bronze Each	311	Chromium Plated Each
\$1.25		\$1.75		\$3.00

# Head and Jibstay Fittings

CAST BRONZE-PLAIN



Fig. 1032

No.	Without Shackle Each	With Shackle Each	Length Inches	Width	Number of Holes	
1	\$2.00	\$2.50	5	11/2	5	12
2	2.75	3.25	73/4	13/4	8	28

# **Bob Stay Straps**

CAST BRONZE



Fig. 303

No.	Plain Bronze Each	Polished Bronze Each	Metal in Eye Inches	Length Straps Inches	I. D. Eye Inches	Weight
1 2	\$ .55 .75	\$ .85 1.05	3/8	13/4 25/8	3/4	31/2

# **Backstay Levers**

CAST BRONZE



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.

Plain Per Set \$8.00	Polished Per Set \$10.00	Length Inches 121/4	Base Inches 31/4×2	For Rigging Inches up to 18	Weight Pounds
₽8.00	\$10.00	12/4	37424	up to 16	./2

#### Wind Pennants

ADJUSTABLE COUNTERBALANCE ALUMINUM PENNANT-BRASS STANDARD

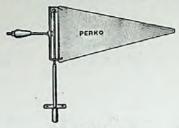


Fig. 435

Pennant swings on a needle point pivot and has an adjustable counterbalance should the weight of the pennant change from application of paint or attachments of any kind.

Perfect balance and needle point bearing makes this pennant instantly responsive to the lightest of winds.

#### FURNISHED IN PAINTED FINISH, EITHER RED OR BLUE.

For Mast 1 Inch Diam. at Top, & Hole

No.	Each	Size of Pennant Inches	Height Overall Inches	Weight Ounces
1	\$2.50	61/2×3	61/2	21/2
2	3.00	91/2×41/2	73/4	4

# Improved Wind Pennants

ADJUSTABLE COUNTERBALANCE

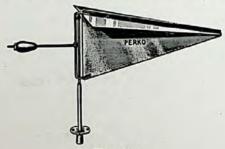


Fig. 837

This is the same as our popular Fig. 435 wind pennant improved by the addition of a horizontal vane attached to the regular vertical vane permitting a more distinct view when directly below the pennant. The horizontal vane is detachable if not required.

Furnished in painted finish, either red or blue.

No.	Complete Each	Size of Pennant Inches	Height Overall Inches	Weight Ounces
5	\$3.00	61/2×3	61/2	3
6	3.75	91/4×41/2	73/4	5



## Mast Track and Slides

NICKEL SILVER

Slide

Track





Fig. 98

Fig. 99

	Slides Fig.	08	1	frack Fig.	99
For Track Inches	Each \$0.09	Weight Per 100 in Lbs. 21/4 23/4	Size Inches 5/8 7/8	Per Foot \$0.24 .32	Weight 100 Feet in Lbs. 141/2 23

Slides will fit any make of track of corresponding design and size.

Stock lengths of track are 8, 10 and 12 feet. All orders will be filled with lengths available to make up total number of feet ordered, unless specified otherwise.

# Mast Hoops

GALVANIZED WROUGHT IRON



Fig. 849

Inside	Diam.		Weight Per 100
Diam. Inches	Metal Inches	Per 100	in Lbs.
2	1/4	\$ 7.00	101/2
21/2	17	9.00	121/2
3 2	17	10.00	15
31/2	17.	13.00	17
4'2	12	15.00	20

Measure in clear, special sizes made to order.

# Jib Rings

GALVANIZED WROUGHT IRON



Fig. 897

Diam. Metal Inches	Inside Diam. Inches	Each	Diam. Metal Inches	Inside Diam. Inches	Each
1-6 1-6 3/8 3/8 3/8 3/8	11/2 2 2 21/2 3 31/2	\$.12 .13 .16 .20 .25 .30	1/2 1/2 1/2 1/2 1/2	3 31/2 4 5 6	\$ .35 .40 .45 .50

### New Masthead Sheave

BAKELITE WITH BRASS BUSHING LIGHTWEIGHT



Fig. 919

Weight at the peak of the mast is a very important factor. This sheave was designed accordingly, light but very strong. The brass bushing assures smooth action and minimum wear.

	Diam.	For Diam, Rope	Thickness	Diam. Bearing	Weight
Each	Inches	Inches	Inches	Inches	Ounces
\$ .40	13/4	5	7 16	1/4	3/4

## Masthead Sheaves

FOR MANILA ROPE CAST BRONZE—PLAIN BEARING



Fig. 892

Diam. Inches	Each	For Diam, Rope Inches	Thickness Inches	Diam. Bearing Inches	Weight Ounces
13/4	\$ .50	5 16	76	1/4	21/2
2	.70	5 16	7 16	16	31/2
21/4	.90	3/8	1/2	3/8	51/2

# Masthead Trucks

LIGNUMVITAE-TWO SHEAVE



Fig. 891

			Diam	For Diam.
Land of the land	Two	Thickness	Diam. Bore	Halyard
Diam. Inches	Sheaves Each	Inches	Inches	Inches
2	\$1.25	7/8	. 1/2	16
216	1.40	1	3/4	3
21/2	1.75	1	7/8	1/4
31/2	2.20	11/8	1	1/4
4/2	2.60	11/4	11/8	1/4
41/2	3.00	13/8	11/4	1/4
5/2	3.50	11/2	13/8	3/8
51/2	4.20	15/9	11/2	3/8
6	4.50	13/4	13/4	3/8

Larger and special sizes to order, on application.

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Vall Lamps         29           Wardrobe Hooks         113           Water—         75           Deck Irons         75           Lights         46           Strainers         87           Watertight—         Cable Outlets         42           Connection Boxes         40           Connections         42	Page   Receptacles	Wing Pumps       55         Wire—       85         Bowden       85         Rigging       126         Rope Clips       117         Rope Pulleys       131         Rope Thimbles       117         Tiller Rope       126         Worm Steerer       78
Fuse Boxes 40  Hand Portables 37  Junction Boxes 40  Push Buttons 41	Adjusters       104         Brackets       104         Cleaners       104         Wing Nuts       71	Yacht—       Blocks       132         Scrapers       49         Yardarm Lights       18



Memoranda



