Aug. 26, 1952

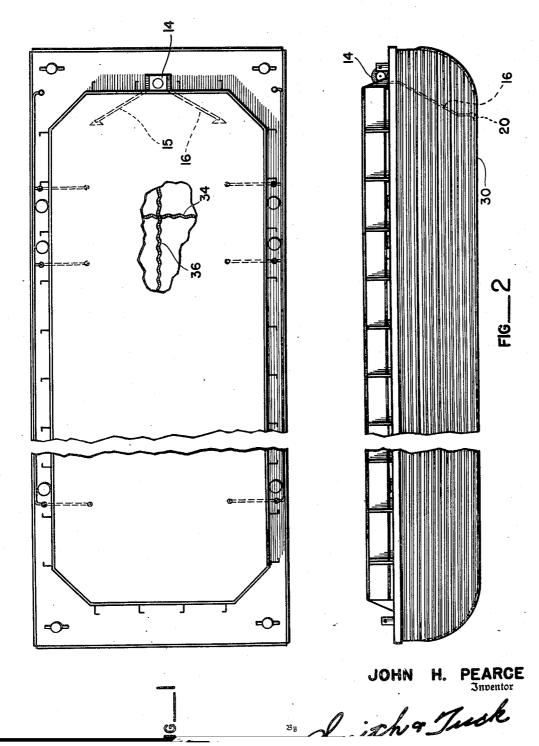
J. H. PEARCE

2,608,171

CORRUGATED, AIR DISTRIBUTING UNDERBODY FOR WATER-BORNE VESSELS

Filed March 14, 1949

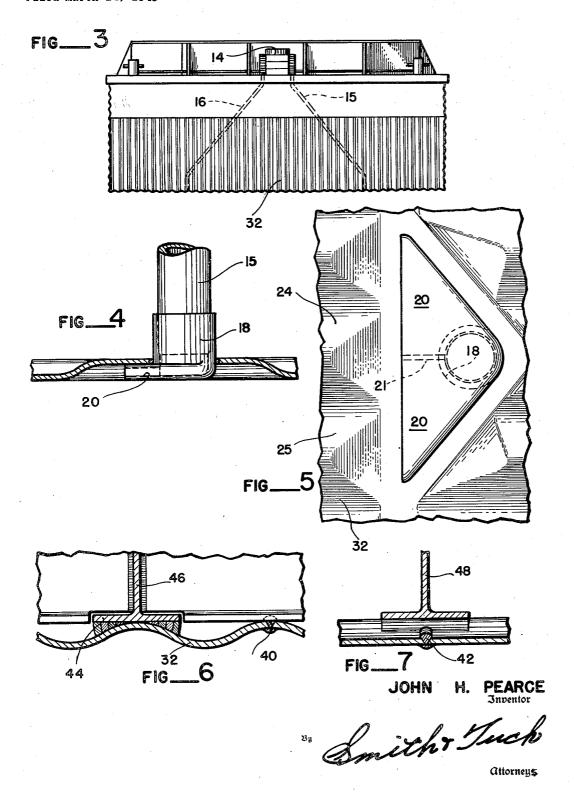
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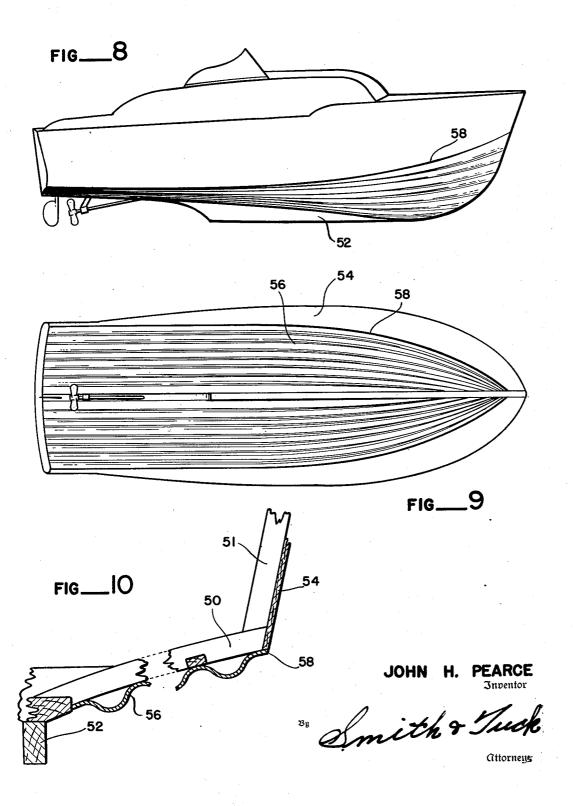
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CORRUGATED, AIR DISTRIBUTING UNDERBODY FOR WATER-BORNE VESSELS

Filed March 14, 1949

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Aug. 26, 1952 2,608,171 J. H. PEARCE CORRUGATED._ AIR_DISTRIBUTING UNDERBODY FOR WATER-BORNE VESSELS

UNITED STATES PATENT OFFICE

2,608,171

CORRUGATED, AIR DISTRIBUTING UNDERBODY FOR WATER-BORNE VESSELS

John H. Pearce, Seattle, Wash.

Application March 14, 1949, Serial No. 81,264

2 Claims. (Cl. 114—67)

1

My invention relates to the construction of hulls for water borne vessels, in which the surface below the water line is plated with longitudinally compacted shell plating which permits

hedron form of hull. Very worthwhile savings can be made by employing the principles in the design of submarine torpedoes and an especially advantageous application is in the plating of

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will be apparent from the description and the disclosure in the drawings, or may be comprehended or are inherent in the device.

In the drawings:

Figure 1 is a top plan view of a freight- 5 handling barge made after the teachings of this present invention. The view is broken at one point so that the essential features may be shown on an enlarged scale.

Figure 2 is a side elevation of the barge of 10 Figure 1.

Figure 3 is a front end elevation of the barge of Figure 1.

Figure 4 is a fragmentary view, shown partly in vertical section, to illustrate one manner of 15 nate in the fittings shown in Figures 4 and 5, wherein nine 15 angular all into the better area of a horse

throughout the length of the ship by the movement of the ship through the water. In slow moving vessels, especially freight carrying vessels, the speed is not normally sufficient to produce a suction under the hull and this requires that air under low pressure must be forced down at the bow and possibly at other points throughout the length of the ship, thus giving the required lubrication.

Referring to Figures 1, 2 and 3 it will be noted that I have provided an air pump, or more properly, blower, at 14, and air under the pressure created by the blower is forced downwardly as through pipes 15 and 16. Pipes 15 and 16 terminate in the fittings shown in Figures 4 and 5,



tudinal structural member 46. In Figure 7, attachment is made to the transverse frame 48.

In Figures 8 and 9 I have illustrated corrugated metal plating for the bottom of a pleasure boat. There are many work and utility boats, however, that also may be plated in the same manner. To be successfully applied, the plating should be used in the V bottom form generally referred to as a monohedron type or a surface

having a flat bottom, consisting of: a hull frame forming said flat bottom having its main stress members disposed longitudinally thereof; curvedly corrugated plating for said hull having each corrugation running from end to end thereof, fixedly secured to said stress members, disposed with the corrugations substantially parallel to the longitudinal axis of said hull, there being a load distributing pad between each stress member and