

J. & G. PIVARCHY.
BOAT.
APPLICATION FILED MAY 8, 1914.

1,125,881.

Patented Jan. 19, 1915.

Fig. 1.

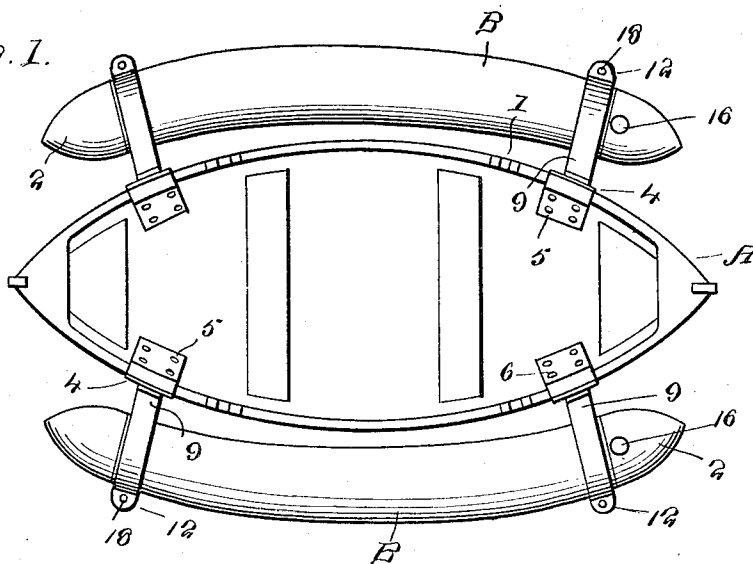


Fig. 2.

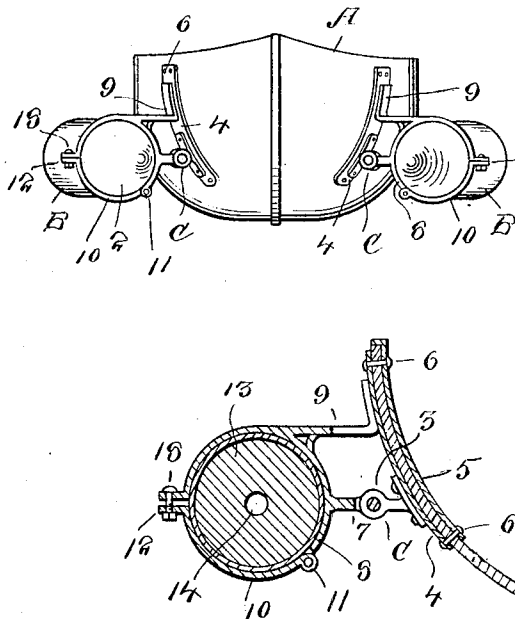


Fig. 3.

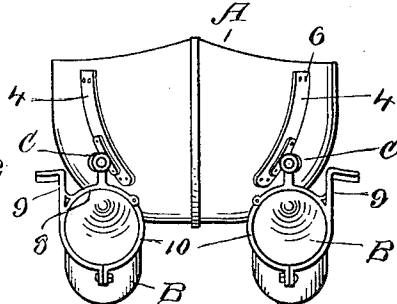
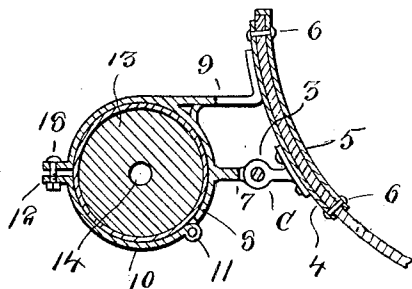


Fig. 4.



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UNITED STATES PATENT OFFICE.

JOHN PIVARCHY AND GASPER PIVARCHY, OF UNIONTOWN, PENNSYLVANIA.

BOAT.

1,125,881.

Specification of Letters Patent.

Patented Jan. 19, 1915.

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To all whom it may concern:

Be it known that we, JOHN PIVARCHY and GASPER PIVARCHY, citizens of the United States, residing at Uniontown, in the county of Fayette and State of Pennsylvania, have invented new and useful Improvements in Boats, of which the following is a specification.

This invention relates to boats and particularly small boats such as are adapted to be propelled by oars and the like, the object of the present invention being to provide in connection with a boat of the class referred to, a pair of buoyant floats of the catamaran type, said floats being hingedly connected to the opposite sides of the hull of the boat and adapted to fold upwardly and downwardly for the purpose of preventing the boat itself from sinking even though entirely filled with water and containing passengers.

A further object of the invention is to so construct and arrange the floats in relation to the boat as to adapt them to be folded under the body of the boat and inside of the vertical planes of the gunwales so as to enable the boat to be compactly stored and shipped.

With the above and other objects in view, the invention consists in the novel construction, combination and arrangement of parts, as will be hereinafter more fully described, illustrated and claimed.

In the accompanying drawings:—Figure 1 is a plan view of a boat embodying the present invention. Fig. 2 is an end view of the same. Fig. 3 is a similar view showing the floats swung downwardly. Fig. 4 is a vertical cross section in line with one of the hinges.

Referring to the drawings A generally designates a boat of the ordinary construction adapted to be propelled by oars for which the usual oar locks 1 are provided.

In carrying out the invention we employ a pair of floats designated generally at B, said floats being elongated in a fore and aft direction and being also curved along their major axes so as to conform more or less accurately to the outer contour of the boat A. In the preferred embodiment of this invention each of the floats B is preferably of the inflatable type and made of rubber or its equivalent, the same being airtight throughout and the opposite extremi-

ties of each float being preferably pointed as at 2 so as to resemble a cigar in shape.

Each float B is permanently attached to the side of the boat by means of a plurality of hinges designated generally at C, each hinge comprising an inner knuckle 3 carried by the boat and shown as formed on a knuckle plate 4 riveted or otherwise secured to the side of the boat. Preferably inner plates 5 are used in complementary relation to the plates 4, the inner plates 5 bearing against the inside of the boat and being riveted through the boat as shown at 6, said rivets firmly securing the outside and inside plates together and making a good reliable construction. The outer knuckle 7 of each hinge is bifurcated as shown at 8 to partially extend around the adjacent float, the upper section of said knuckle being provided with an offset 9 forming a stop adapted to come against the outside plate 4 and limit the extent to which the float may be moved upwardly, thereby holding said float in its operative position when upheld by the buoyancy of the water. The outer knuckle also comprises a hinged section 10 connected to the main section by the pivoted or hinged joint 11 and both sections of the outer knuckle are provided with outwardly extending ears 12 through which is inserted a clamp bolt 18. It will thus be seen that all of the outer knuckles have a stop for limiting the upward movement of the float and also a strap which surrounds the float and holds the same against displacement. When the boat is in the water the floats automatically assume the position illustrated in Fig. 2 and serve to materially stabilize the boat in rough water and also prevent any possibility of the boat sinking as long as the floats which are air and water-tight remain uninjured.

When the boat is out of the water, the floats B are swung downwardly under the body of the boat as shown in Fig. 3 where they will lie within the vertical planes of the opposite sides of the boat at the greatest beam or width amidships thus enabling the boat to be compactly stored on the deck of a vessel or any other place, also adding to the ease of transportation and shipment.

One or both ends of each float B may be made in the form of a solid block 13 as indicated in Fig. 4 and provided with a central bore 14 which communicates with

an air inlet opening in the top of the float, said inlet opening being normally closed by means of a plug 16. This greatly facilitates the inflation of the floats.

5 What we claim is:—

1. The combination with a boat, of a pair of float supporting hoops hinged to opposite sides thereof, floats at opposite sides of said boat elongated in a fore and aft direction, 10 each comprising non-collapsible end sections held in said hoops, and an intermediate flexible collapsible and inflatable section terminally attached to said end sections, and means on each of said hinged hoops for limiting the upward movement thereof relatively to the boat. 15

2. The combination with a boat, of a pair of floats supporting hoops hinged to oppo-

site sides thereof, floats at opposite sides of said boat elongated in a fore and aft direc- 20 tion, and each comprising non-collapsible end sections held in said hoops, and an intermediate flexible collapsible and inflatable section terminally attached to said end sections, and means on each of said hinged 25 hoops for limiting the upward movement thereof relatively to the boat, one of the non-collapsible end sections of each float being formed with an inflating passage.

In testimony whereof we affix our signatures in presence of two witnesses. 30

JOHN PIVARCHY.
GASPER PIVARCHY.

Witnesses:

JOSEPH L. HAKY,
ROBERT R. RUTTER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."