United States Patent

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[54] **ASYMMETRIC CATAMARAN**
4 Claims, 2 Drawing Figs.

[52] **U.S. Cl.** **114/123, 114/61**
[51] **Int. Cl.** **B63b 43/14**
[50] **Field of Search** 9/1; 114/39, 123, 61

[56] **References Cited**
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ABSTRACT: An asymmetric catamaran having a main hull and an outboard hull joined by a swept-back wing. The wing is attached to the main hull by bolts and by an inner flange seating in a groove in the inner surface of the sidewall of the main hull. The hulls and wing are composed essentially of fiber glass and polyurethane foam to provide lightness and buoyancy.

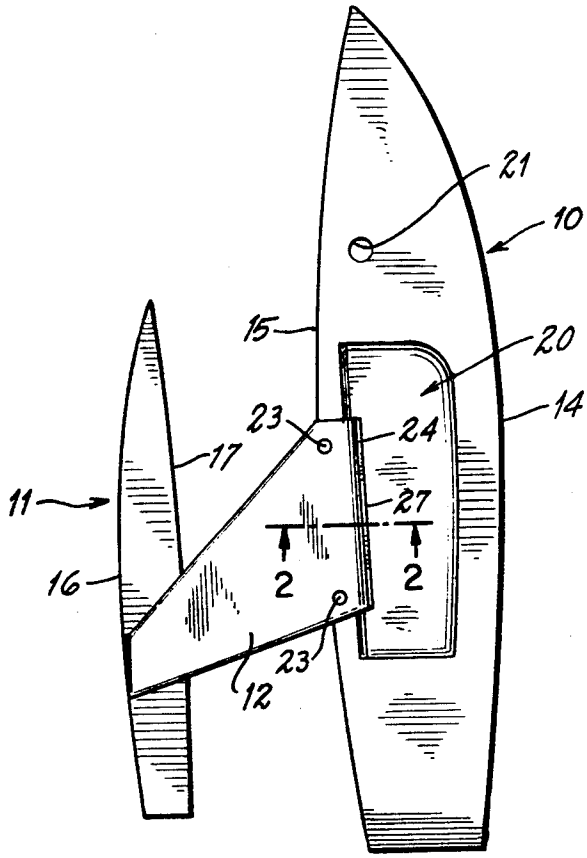
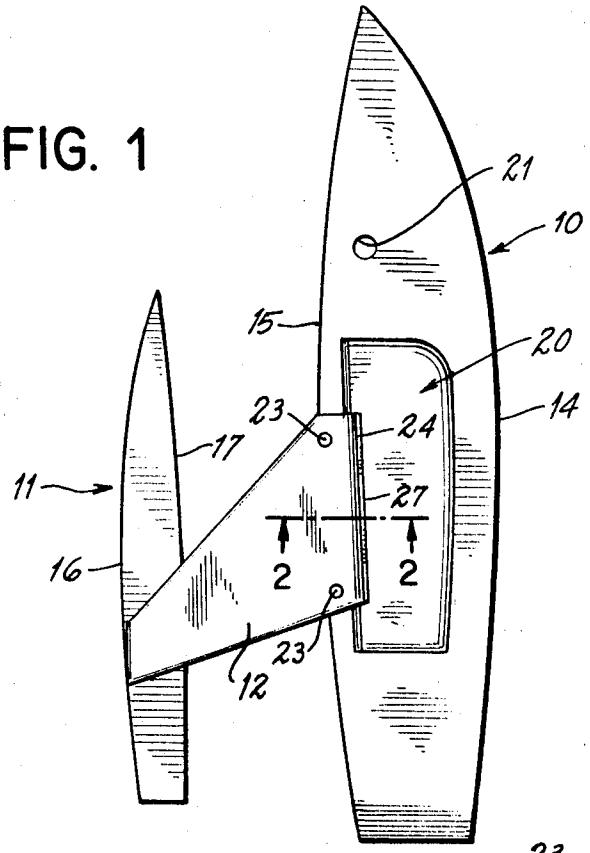


FIG. 1



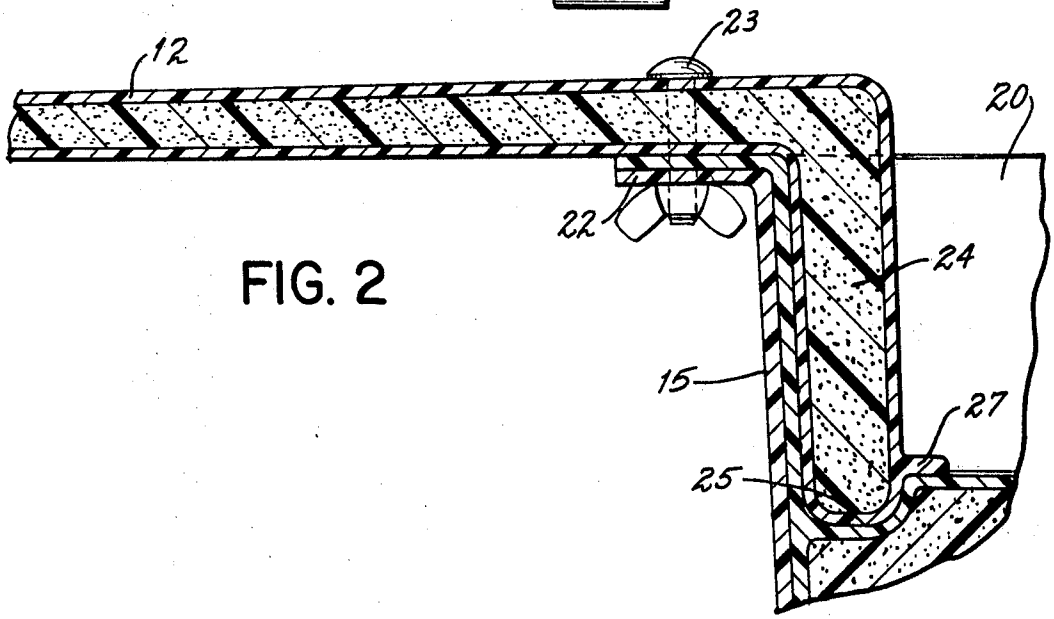


FIG. 2

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ASYMMETRIC CATAMARAN

This invention relates to asymmetric catamarans and has for an object to provide a catamaran of the above type having improved features of construction.

Another object is to provide novel and improved wing structure and attaching means.

Various other objects and advantages will be apparent as the nature of the invention is more fully disclosed.

The invention includes, more specifically, a a main hull and an outboard hull joined by a swept-back wing composed essentially of fiber glass and a synthetic foam, and so arranged that the wing is detachably secured to the main hull. The wing is attached to the hull by an interlocked flange arrangement which provides stiffness without appreciably increasing the weight.

The nature of the invention will be better understood from the following description, taken in connection with the accompanying drawing in which a specific embodiment has been shown for purposes of illustration.

In the drawing:

FIG. 1 is a plan view of a catamaran embodying the invention; and

FIG. 2 is a detail section taken on the line 2–2 of FIG. 1.

Referring to the drawing more in detail the catamaran is shown as having a main hull 10 and an outboard hull 11 joined by a wing 12. The main hull 10 is formed with a convex, curved side 14 and a slightly curved side 15 together forming in effect a half hull, that is the side 15 would represent about the center line of a standard symmetrical hull.

The outboard hull 11 is substantially a mirror image of the hull 10 with one curved side 16 and a second substantially straight side 17.

The main hull 10 and the outboard hull 11 are composed of molded fiber glass and are filled with a synthetic foam such as polyurethane foam for lightness and buoyancy. The main hull 10 has a cockpit 20 and a socket 21 for a mast, not shown. The wing 12 is of the sweptback type and at its outer and extends across and is secured to the outboard hull 11 by any suitable means.

At its inner end the wing 12 rests on an outwardly extending lip 22 attached to the hull 10 and is secured thereto by bolts

23. The wing is formed with a downward flange or lug 24 which extends downward over the inner surface of the side 15 of the hull 10 and seats at its lower edge in a recess 25 formed in the hull. A horizontal lip or flange 27 extends over the bottom wall of the cockpit. These flanges serve to stiffen and strengthen the wing and form a readily detachable means for firmly anchoring the wing to the hull.

The wing 12, like the hulls, is formed of a synthetic foam such as polyurethane covered by molded fiber glass. Thus the entire assembly is light and buoyant. The shape of the hulls is such that a minimum resistance is provided at low speeds and the rearward portions are shaped to permit the hulls to plane over the surface of the water at higher speeds.

It is to be understood that a specific form has been shown for purposes of illustration and that various modifications may be made therein as will be apparent to a person skilled in the art.

What I claim is:

1. A catamaran comprising a main hull and an outboard hull, a wing joining said hulls, said wing having a downwardly extending flange disposed over the inner wall of said main hull and seated at its lower end in a groove formed in the inner surface of said hull and fastening means securing said wing to said main hull, said fastening means including an outwardly extending flange on said main hull engaging the under side of said wing and fastening members extending through said flange and said wing to clamp said wing in place.

2. A catamaran as set forth in claim 1 in which a horizontal flange extends inwardly over the inner surface of said main hull and is secured to said first flange near the lower end thereof.

3. A catamaran comprising a main hull and an outboard hull, a wing joining said hulls, said wing having a downwardly extending flange disposed over the inner wall of said main hull and seated at its lower end in a groove formed in the inner surface of said hull and fastening means securing said wing to said main hull, each of said hulls having one outwardly curved side and one side which is relatively straight to form an asymmetric contour.

4. A catamaran as set forth in claim 3 in which the outboard hull is smaller than the main hull and its contour is a mirror image of the main hull.