J. KOZIOL.

LIFE BOAT.

APPLICATION FILED JAN. 29, 1918.

1,296,668.

Patented Mar. 11, 1919.

2 SHEETS—SHEET 1.

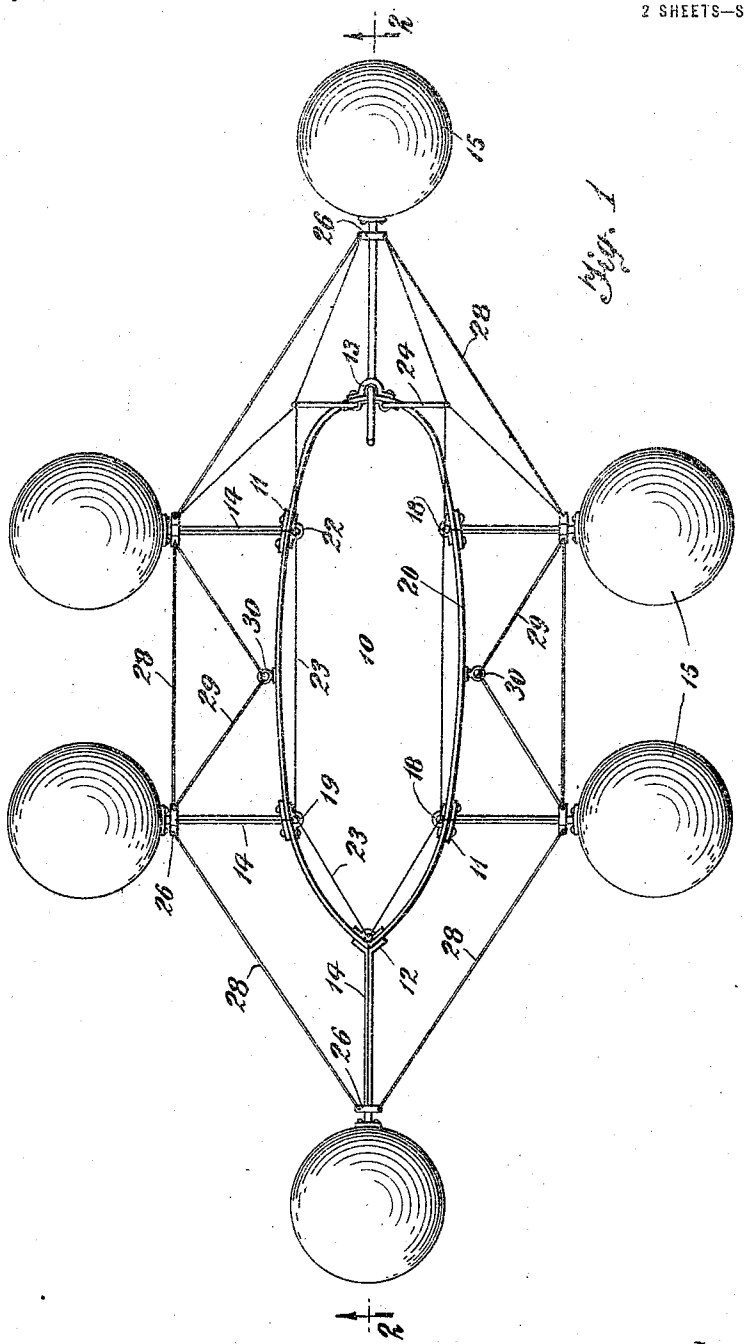

Fig. 1

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2 SHEETS—SHEET 2.

Fig. 2

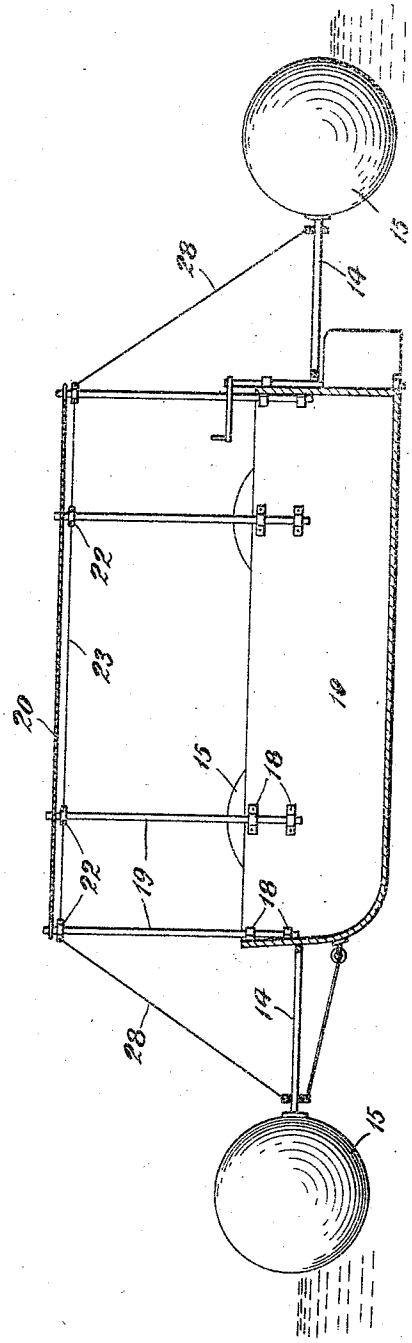
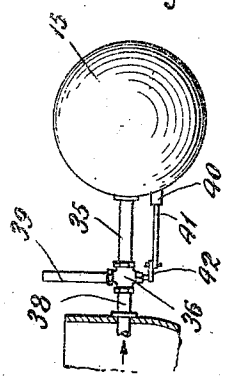


Fig. 3



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UNITED STATES PATENT OFFICE.

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LIFE-BOAT.

1,296,668. Specification of Letters Patent. Patented Mar. 11, 1919.

Application filed January 29, 1918. Serial No. 214,272.

To all whom it may concern:

Be it known that I, JOSEPH KOZIOL, a citizen of the United States, resident of Des Moines, county of Polk, and State of Iowa, have invented certain new and useful Improvements in Life-Boats, of which the following is a specification.

This invention relates to improvements in means for maintaining a boat principally intended for life saving purposes on the surface of water, irrespective of any damage which may be done to it.

The principal object of the invention is to provide a plurality of buoyant floats having sufficient buoyant area to maintain the boat on the surface.

A further object is to provide means whereby the floats may be filled with compressed air or other suitable buoyant gases.

These and other like objects are attained by the novel construction and combination of parts hereinafter described and shown in the accompanying drawings, forming a material part of this specification, and in which,

Figure 1 is a top plan view showing a conventional type of boat diagrammatically, and indicating the application of the invention.

Fig. 2 is a vertical sectional view taken on line 2—2 of Fig. 1.

Fig. 3 is a fragmental sectional view indicating the inflating means.

In the several drawings, the numeral 10, indicates the hull of the vessel, upon the sides of which are rigidly engaged brackets 11, a similar bracket 12, extending from the front or stem of the boat, and a like bracket 13 at the rear or stern thereof. Engaged with the brackets 11 and 12 are supports 14, the same having secured at their extremities floats 15 preferably of a strong inflatable material, here shown to be of spherical construction and which are firmly braced by means hereinafter described. Engaged within the boat's hull, by means of brackets 18, are posts or masts 19 having at their extreme upper end a rigid band 20, below which are fixed brackets 22, connected by cables 23, these cables being connected with a cross rail 24, at the stern of the vessel.

Engaged with the outer ends of the rigid arms 14 are other brackets 26, terminating in eyes, to which are secured cables 28 and 29, the latter being engaged at their center with eyes 30, at the side of the vessel, thus forming a rigid, substantial structure by means of which the buoyant elements are attached to the ship.

Should it be desirable to increase the buoyancy of the floats 15, which may be arranged for inflation, the bars may be of tubular construction, as indicated at 35 in Fig. 3, and engaged with a valve 36, its opposite entrance having a pipe 38 leading into the interior of the vessel and connecting with an air-compressor contained therein, (not shown) while the third opening of the valve 36 has an exhaust pipe 39 open to the atmosphere.

Within the float 15 is arranged a piston (not shown) which extends through the projection 40, and engaged with a rod 41, connecting with a crank 42, of the valve stem, so that when pressure rises within the float beyond a desirable point, the valve is closed so as to prevent further admission of compressed air, but permits the same to escape through the exhaust 39.

The construction, application and purpose of the invention are believed to be evident from the foregoing taken in connection with the drawings.

Having thus described my invention what I claim as new and desire to secure by Letters Patent, is—

In a buoyant lifesaving boat of the character described, the combination with the hull of a vessel of a plurality of buoyant inflatable floats rigidly secured thereabout at a distance from said hull, of tubular connections between said floats and said hull, adapted to supply an inflating medium to said floats, valves in said tubular connections, cranks on the stems of said valves adapted to be operated automatically when the pressure within said floats rises above a predetermined point and exhaust pipes engaged with said valves, for the exhaust of the surplus of inflating medium, and masts on said boat supporting cables for suspending said floats therefrom.

In testimony whereof I have affixed my signature.

JOSEPH KOZIOL.

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