G. PERRAULT.

STABILIZER FOR BOATS.

APPLICATION FILED JAN. 3, 1916.

1,184,207. Patented May 23, 1916.

Fig. 1

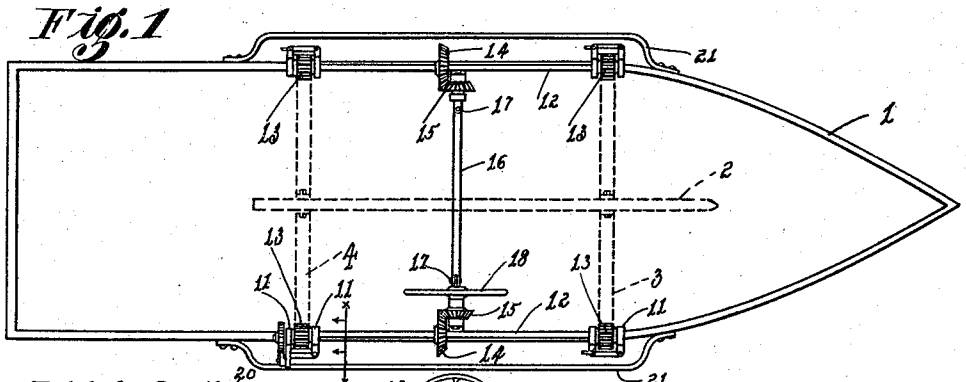


Fig. 2

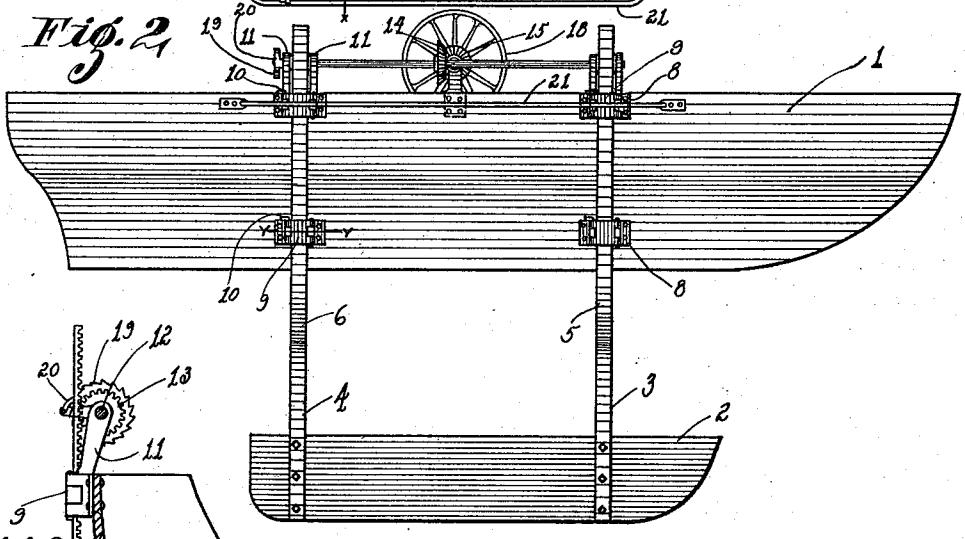


Fig. 3

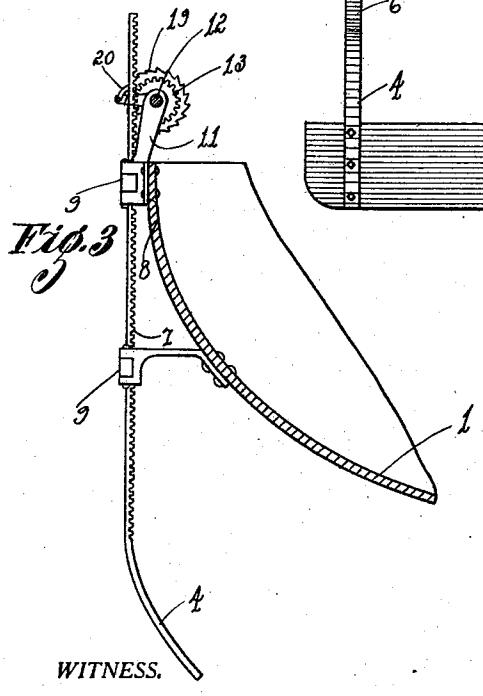
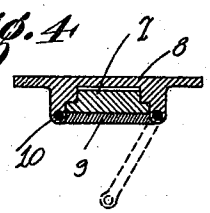


Fig. 4



WITNESS.

Floyd M. Blanchard

INVENTOR.

George Perrault

BY

Percy Thelwell

ATTORNEY

UNITED STATES PATENT OFFICE.

GEORGE PERRAULT, OF STOCKTON, CALIFORNIA, ASSIGNOR OF FORTY ONE-HUNDREDTHS TO EDGAR C. BODIMER, OF STOCKTON, CALIFORNIA.

STABILIZER FOR BOATS.

1,184,207. Specification of Letters Patent. Patented May 23, 1916.

Application filed January 3, 1916. Serial No. 69,740.

To all whom it may concern:

Be it known that I, GEORGE PERRAULT, a citizen of the United States, residing at Stockton, in the county of San Joaquin, State of California, have invented certain new and useful Improvements in Stabilizers for Boats; and I do declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this application.

This invention relates to safety appliances for boats of all kinds and especially for life saving boats used on vessels or at life saving stations, the object of the invention being to produce a stabilizer for the boats by the use of which the boat can be prevented from capsizing when loaded with passengers thus preventing a great many accidents, which occur due to the rush or confusion of launching boats when an accident occurs upon the vessel.

A further object of the invention is to produce a simple and inexpensive device and yet one which will be exceedingly effective for the purposes for which it is designed.

These objects I accomplish by means of such structure and relative arrangement of the parts as will fully appear by a perusal of the following specification and claims.

In the drawings similar characters of reference indicate corresponding parts in the several views.

Figure 1 is a top plan view of a boat showing my improved attachment thereon. Fig. 2 is a side elevation of the same. Fig. 3 is a sectional view of the adjusting means of the stabilizer taken on a line X—X of Fig. 1. Fig. 4 is a sectional view taken on a line Y—Y of Fig. 2.

Referring now more particularly to the characters of reference on the drawings the numeral 1 designates the boat.

My improved stabilizer consists of a flat plate or blade 2 arranged to be suspended below the central part of the boat parallel therewith and being connected to the boat by means of supporting rods 3 and 4 suitably fastened to the plate 2 and being bifurcated, as at 5 and 6 respectively, the arms of such bifurcations being projected alongside of the boat and provided with ratchet racks 7 for a purpose as will presently appear. The plate or blade 2 is to be of a weight in proportion to the size of the boat. These racks 7 project through guides suitably secured to the sides of the boats and consisting of main guides 8 having hinged covers 9 adapted to be held in position by bolts 10. By opening the covers 9 the members 7 may be readily removed from the sides of the boat when desired or may likewise be readily replaced. The main advantage of this structure is to allow of transporting the boat from one place to another without the stabilizing means being in the way.

On the rails of the boat 1, adjacent each of the racks 7, I provide a bracket 11 turnable in each pair of which brackets is a shaft 12, each shaft having a pinion wheel 13 engaging one of the racks 7. Keyed centrally to each of the shafts 12 is a beveled gear 14 intermeshing with which are beveled gears 15 suitably journaled on the sides of the boat 1. The beveled gears 15 are connected together by a shaft 16 removably yoked to each of the pinions 13, as at 17, whereby the said shaft 16 may be broken out of either of the yokes 17 and placed against the side of the boat when not in use.

Secured to one of the pinions 13 is an operating wheel 18. By connecting the shaft 16 into position and operating the wheel 18, this, through the medium of the beveled gears 14 and 15 will operate the shafts 12 to cause the pinions 13 to operate the racks 7 up or down to raise or lower the position of the stabilizer 2 for giving it the most efficient action or for drawing it out of position when the boat approaches shallow water. Any fixed position of the stabilizer may be maintained by means of a ratchet wheel 19 secured on one of the shafts 12 and engageable by a dog 20 fixed to one of the brackets 11. Suitable guard rails 21 are disposed on the outside of the boat 1 around the mechanism to prevent it from being brought into contact with any objects which might damage same.

By positioning the stabilizer 2 at the necessary point beneath the boat it can be used to readily prevent the overturning of the boat with the advantages which are readily apparent.

From the foregoing description it can readily be seen that I have produced such a

device as substantially fulfils the object of the invention as set forth herein.

While this specification sets forth in detail the present and preferred construction of the device, still in practice such deviations from such detail may be resorted to as do not form a departure from the spirit of the invention as defined by the appended claims.

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

1. The combination with a boat, of a stabilizer suspended below the boat, the suspending means comprising supports secured to the stabilizer, each support being bifurcated, the arms of the bifurcations extending on opposite sides of the boat, and means for engaging said arms to raise or lower the stabilizer, as described.

2. The combination with a boat, of a stabilizer suspended below the boat, the suspending means comprising supports secured to the stabilizer, each support being bifurcated, the arms of the bifurcations extending on opposite sides of the boat, means for engaging said arms to raise or lower the stabilizer, such means comprising driven shafts on the boat, and means on said shafts engageable with said arms to raise and lower same, as described.

3. The combination with a boat, of a stabilizer below the boat, supports for the stabilizer having bifurcated arms, each arm having a pinion rack, pinions journaled on the boat and engageable with the racks, shafts on the pinions, beveled gears on the shafts, beveled gears journaled on the boat engageable with the first named beveled gears, a removable shaft connecting the last named beveled gears, and an operating wheel on one of said beveled gears, as described.

In testimony whereof I affix my signature.

GEORGE PERRAULT.

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