May 13, 1924.

1,493,489

J. A. HOLZAPFEL

ANCHOR

Filed May 15, 1922

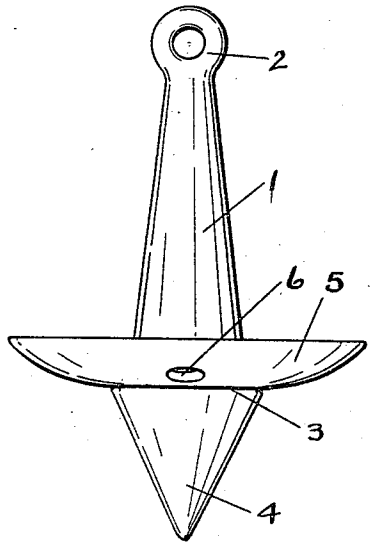


FIG. I.

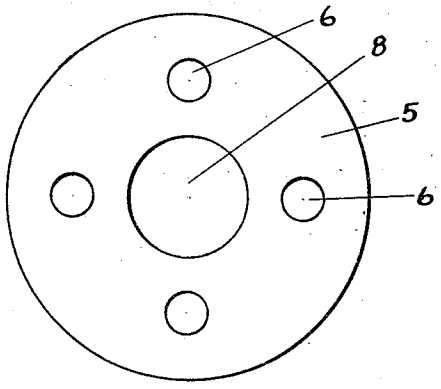


FIG. III.

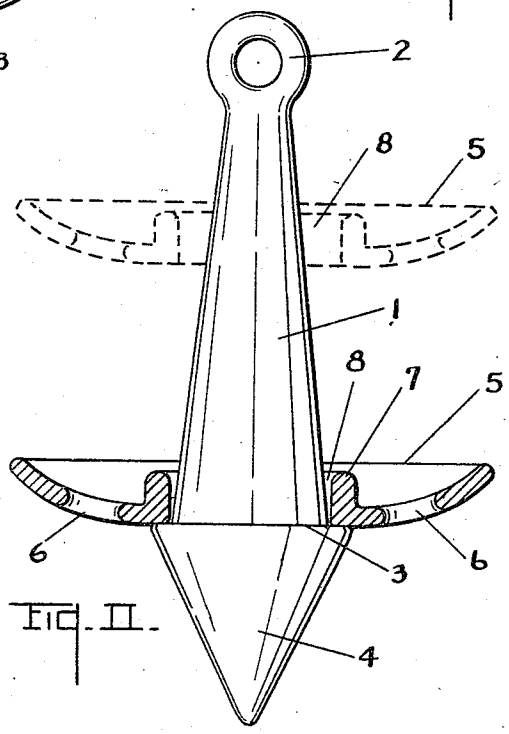


FIG. II.

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Patented May 13, 1924. 1,493,489

UNITED STATES PATENT OFFICE.

JOHN A. HOLZAPFEL, OF JACKSON, MICHIGAN.

ANCHOR.

Application filed May 15, 1922. Serial No. 561,002.

To all whom it may concern:

Be it known that I, JOHN A. HOLZAPFEL, a citizen of the United States, residing at Jackson, county of Jackson and State of Michigan, have invented certain new and useful Improvements in Anchors, of which the following is a specification.

This invention relates to improvements in anchors.

The main objects of this invention are:

First, to provide an improved anchor which is well adapted for anchoring row boats or fishing boats and holds securely on beds of different character.

Second, to provide an improved anchor having these advantages which has large holding capacity in proportion to its size and weight.

Further objects, and objects relating to structural details, will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification. The invention is clearly defined and pointed out in the claims.

A structure which is a preferred embodiment of my invention is clearly illustrated in the accompanying drawing, forming a part of this application, in which:

Fig. I is a side view of my improved anchor in upright position.

Fig. II is a side view with the anchor plate shown in vertical central section.

Fig. III is a bottom view of the anchor plate.

In the drawing similar reference characters refer to similar parts throughout the several views.

Referring to the drawing, my improved anchor comprises an elongated or shaft-like body 1 tapered upwardly and terminating in an eye 2 for the attachment of the anchor rope or cable. At the lower end of the body 1 is an annular shoulder or stop 3, there being a conical or pointed tip 4 below this shoulder. The concavo convex plate 5 normally rests on this shoulder but is free to move longitudinally of the body 1. This plate is preferably provided with holes 6 and with an upwardly projecting flange 7 around its opening 8.

In use, when the anchor is dropped to the bed of the lake or stream the pointed end will embed in the bed of the lake but, should a lateral pull occur, the plate 5 will engage, the plate adjusting itself on the shank according to the depth to which the body is embedded and canting or tilting laterally to take a secure hold. The hanger is, however, easily disengaged when pulled upwardly, as in hauling in. A further advantage is that the parts are very economical to produce, as they can be readily molded.

While my improved anchor is especially designed by me for small boats and launches it is also desirable for larger craft.

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

1. An anchor comprising an upwardly tapered shank having a shoulder at its lower end and a conical tip below the shoulder, and an upwardly facing concavo convex plate loosely mounted on said shank and adapted to normally rest on said shoulder, said plate having an upwardly projecting flange around its opening.

2. An anchor comprising an upwardly tapered shank having a shoulder at its lower end and a conical tip below the shoulder, and an upwardly facing concavo convex plate loosely mounted on said shank and adapted to normally rest on said shoulder.

3. An anchor comprising an elongated shank having a stop at its lower end and pointed below the stop, and an upwardly facing concavo convex plate loosely mounted on said shank and adapted to normally rest on said stop, said plate having an upwardly projecting flange around its opening.

4. An anchor comprising an elongated shank having a stop at its lower end and pointed below the stop, and an upwardly facing concavo convex plate loosely mounted on said shank and adapted to normally rest on said stop.

5. An anchor comprising an upwardly tapered shank having a shoulder at its lower end and a conical tip below the shoulder, and a grapple member loosely mounted on said shank for rotative and longitudinal movement thereon and adapted to normally rest on said shoulder.

6. An anchor comprising an upwardly tapered shank having a shoulder at its lower end, and a grapple member loosely mounted on said shank and adapted to normally rest on said shoulder, the bore of said grapple member being straight there-

by permitting the tilting of the grapple member while resting upon said shoulder.

7. An anchor comprising an elongated shank having a stop shoulder at the lower end thereof, and a grapple member loosely mounted on said shank having longitudinal and rotative movement thereon and adapted to normally rest on said stop, the bore of the grapple member being such as to permit tilting of the grapple member while resting upon said stop.

In witness whereof, I have hereunto set my hand and seal.

JOHN A. HOLZAPFEL. [L. S.]