No. 653,062. Patented July 3, 1900.

LA MONT M. BOWERS.

ANCHOR.

(Application filed Feb. 10, 1900.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.

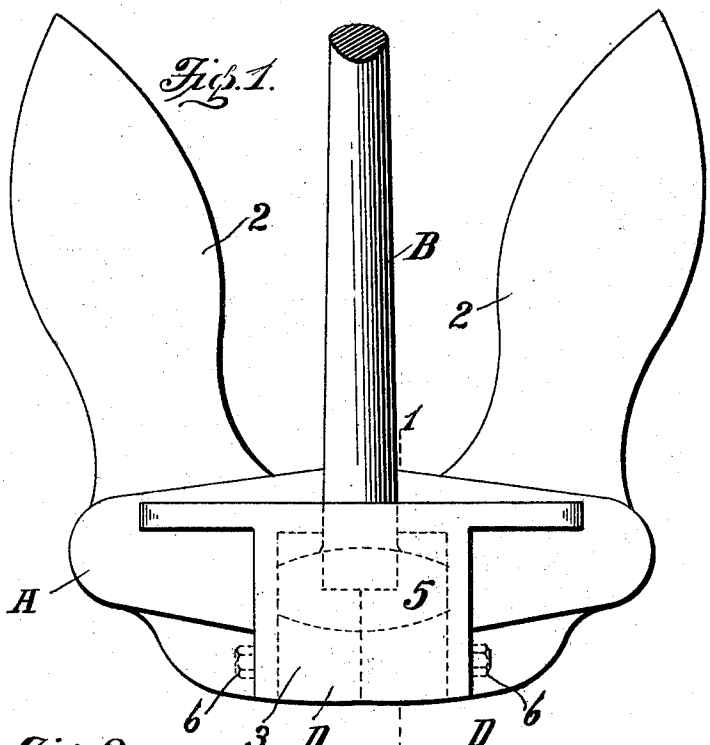


Fig. 2.

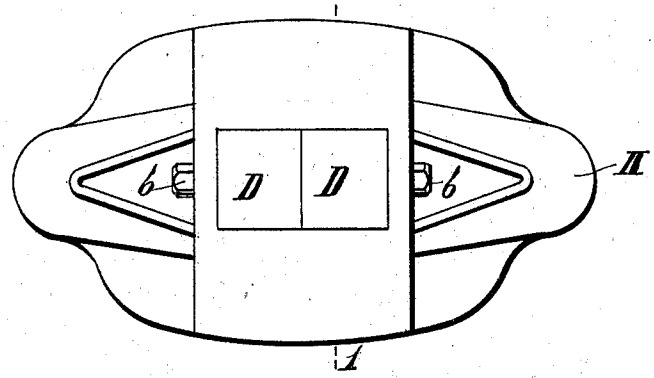
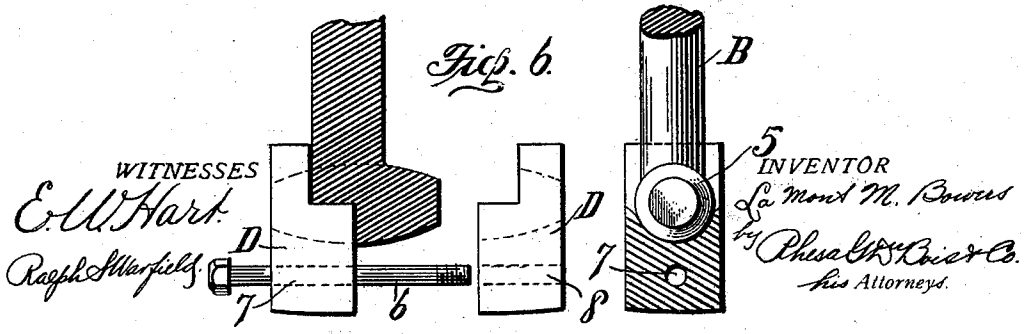


Fig. 6.



WITNESSES
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Fig. 3.

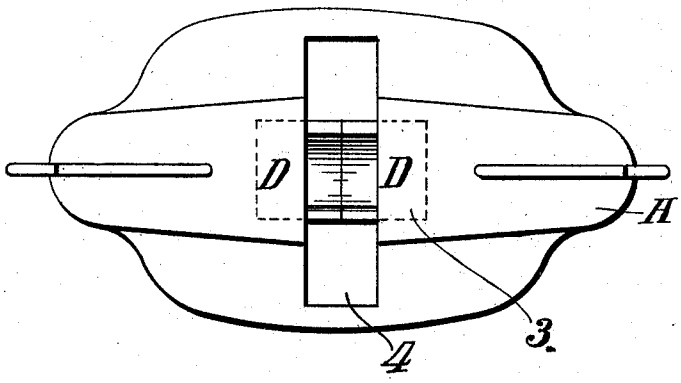


Fig. 4.

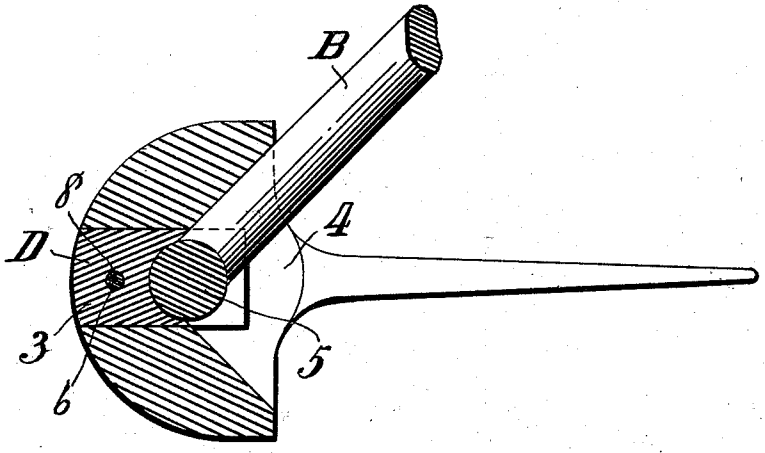
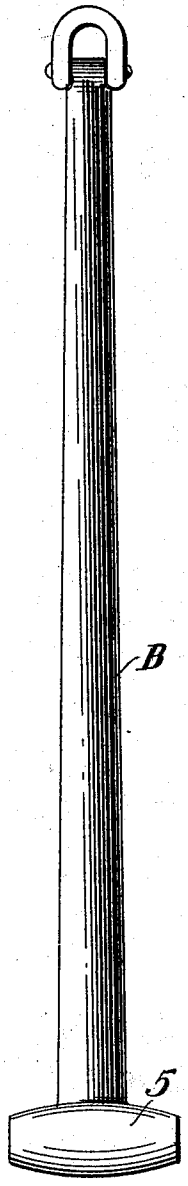


Fig. 5.



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UNITED STATES PATENT OFFICE.

LA MONT M. BOWERS, OF BINGHAMTON, NEW YORK.

ANCHOR.

SPECIFICATION forming part of Letters Patent No. 653,062, dated July 3, 1900.

Application filed February 10, 1900. Serial No. 4,786. (No model.)

To all whom it may concern:

Be it known that I, LA MONT M. BOWERS, a citizen of the United States, residing at Binghamton, in the county of Broome and State of New York, have invented a certain new and useful Anchor, of which the following is a specification.

My invention relates to an improvement in anchors; and more particularly to an improvement on the construction disclosed in Letters Patent No. 602,719, granted to me April 19, 1898; and the object of my present invention is to produce an anchor which is as nearly one solid mass as can be made, at the same time allowing for the ready removal of the shank from the head in case of breakage of the latter; and likewise it is an object to make it practically as tight as if it were one solid piece for the purpose of keeping out stones, sand, and dirt, which so often interfere with the instant and free working of an anchor when passed out.

With these objects in view my invention consists of certain novel features of construction and combinations of parts, which will be more fully described hereinafter and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in side elevation of my improved anchor with a portion of the shank broken away. Fig. 2 is a bottom plan view. Fig. 3 is a top plan view. Fig. 4 is a transverse section on the lines 1 1 of Figs. 1 and 2. Fig. 5 is a view of the shank, and Fig. 6 is a view of details.

A represents the body portion of the anchor, which is made in one solid casting, and it comprises a central head 1 and the flukes 2 2. The head is cored or chambered out through the center in rectangular form at the lower end, as at 3, and tapering or V-shaped at the upper end, as at 4, so that the two bored or chambered portions 3 and 4 extend crosswise of each other, as indicated in full and dotted lines in Fig. 3.

B is the shank of the anchor, and this is provided with the cross-piece 5 at its lower end, similarly to the construction disclosed in my patent referred to. This cross-piece is turned to form smooth-surfaced bearings and is of a length just equal to the length of the lower chamber 3 in the head which it fits.

D D are a pair of blocks or bearings which are preferably of brass or steel and milled and finished to receive and form bearings for the cross-piece 5 of the shank, and the dimensions of these bearings are such that they just fit snugly in the lower recess 3 of the anchor-head, where they are held by means of a bolt 6 against displacement, this bolt passing through holes 7 8, formed in the blocks and head, respectively, for its reception. In this manner the lower cavity or chamber 3 is completely closed by the bearings against the entrance of sand, stones, and dirt, and in this way the lower surface of the head is in effect one continuous and solid piece of metal, and the bearings or blocks being surrounded by the solid metal are protected against injury incident to the damage and punishment which an anchor is liable to receive, and by excluding the sand, stones, and dirt the effectual operation or tilting of the anchor-head with respect to the shank is always provided for, the head working with perfect freedom upon the cross-piece 5. At the same time the anchor can be taken apart in a minute's time and the blocks or bearings and shank removed and another substituted, if occasion may require it, without necessitating any delay.

It is evident that slight changes might be made in the form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I do not wish to limit myself to the exact construction herein set forth; but,

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

1. An anchor having its head made in a single piece of metal chambered out through the center, a shank having a cross-head and blocks or bearings fitting the shank and the chamber of the head whereby to absolutely close the end of the chamber and constitute bearings for the cross-head of the shank.

2. An anchor comprising a head made in a single piece with a chambered or recessed center, one end of which is rectangular in form and the other substantially V-shaped, the two portions of the chamber in communication with and extending crosswise of each other, a shank having a cross-piece at its

lower end, of a length just equal to the length of the lower chamber in the anchor-head and blocks or bearings in which the cross-piece turns, said blocks or bearings fitting and filling the lower portion of the chamber in said head.

3. An anchor having its head made in a single piece of metal chambered out through the center, a shank having a cross-head, and blocks or bearings fitting the shank and the chamber of the head whereby to absolutely close the end of the chamber and constitute bearings for the cross-head of the shank, and a bolt or equivalent means passing through the blocks or bearings and the head for removably holding the blocks and shank in said head.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

LA MONT M. BOWERS.

Witnesses:
WM. O. MORSE,
BURDETT F. DAVIS.