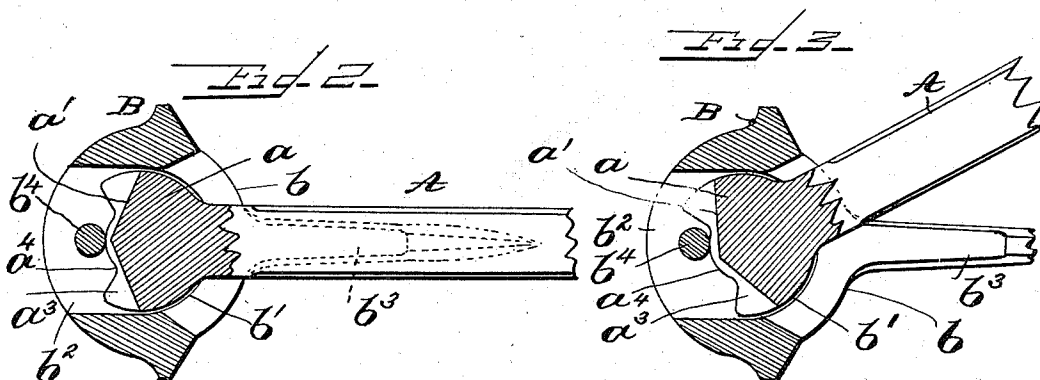
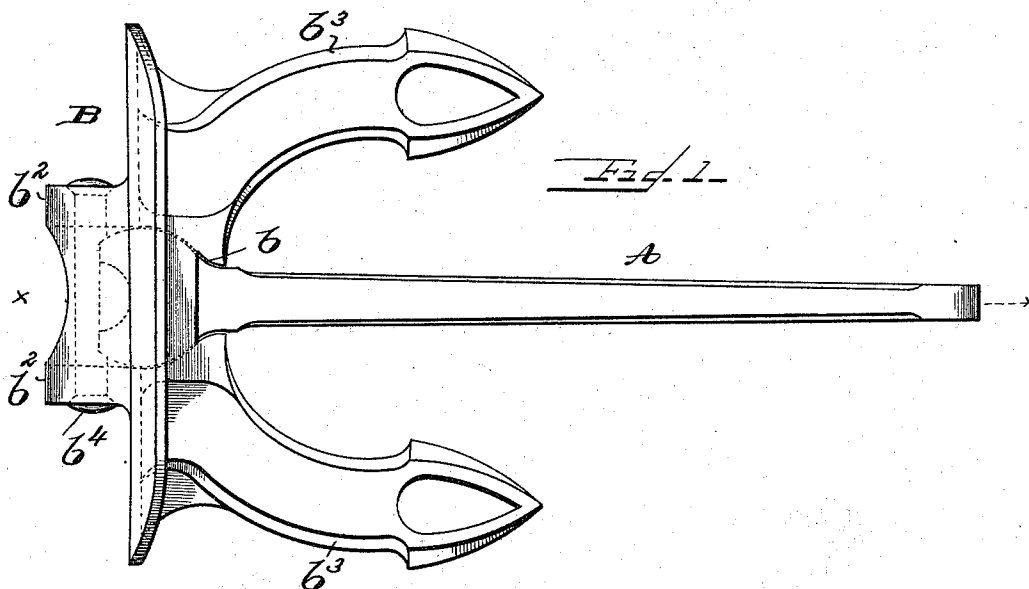


(No Model.)

F. BALDT.
ANCHOR.

No. 570,420.

Patented Oct. 27, 1896.



Witnesses.

*J. A. Pauberschmidt,
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Inventor.

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By Edwin S. Clarkson
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UNITED STATES PATENT OFFICE.

FREDERICK BALDT, OF CHESTER, PENNSYLVANIA.

ANCHOR.

SPECIFICATION forming part of Letters Patent No. 570,420, dated October 27, 1896.

Application filed June 12, 1896. Serial No. 595,260. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK BALDT, a citizen of the United States, residing at Chester, in the county of Delaware and State of Pennsylvania, have invented certain new and useful Improvements in Anchors; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to certain improvements in anchors.

The object of my invention is to produce a ball-bearing anchor that can be cast—a ball-bearing in which the crown-piece and flukes cannot revolve on the shank, whereby the flukes will catch with certainty.

It consists of a rectangular shank with a round ball or globe on the end, a crown-piece having a socket in which the ball or globe is seated, thus making a true ball-and-socket joint with an opening on two sides to allow the mud and small stone to wash through. The shank is held in the socket by means of a pin passing through the lugs on the crown-piece back of the ball or globe on the shank. Thus it will be seen that the anchor is so constructed that it can be cast in steel and not forged.

In the drawings, Figure 1 is a front elevation of my improved anchor. Fig. 2 is a vertical section on the line X X. Fig. 3 is a similar view, with the shank thrown to one side. Fig. 4 is a bottom plan view.

A represents the shank, rectangular in cross-section, which is provided with a round ball or globe *a* on the end. The ball or globe *a* is cut away at *a'*, thus forming a groove with an angular bottom, to be hereinafter referred to.

B is the crown-piece, having a central longitudinal opening *b* on the fluke side and a round opening *b'* on the rear side.

*b*² are lugs extending from the crown-piece, in which are formed openings.

*b*³ are the fluke-arms.

*b*⁴ is the pin with which the shank is secured in the crown-piece.

The bottom of the ball is cut away, as at *a'*,

forming a groove, which inclines from the center toward the sides of the ball. Thus when the shank is thrown to one side this groove registers with the opening *b* in the crown-piece, thereby forming an opening through which sand, mud, &c., may wash through. Extending from this groove is a rib *a*³, which is also provided with a groove *a*⁴, the bottom of which is curved, as shown in the drawings. The pin *b*⁴ works in this groove, thereby keeping the ball at all times snugly in the opening *b'*. The rectangular shank is passed through the opening in the crown-piece and the ball *a* is seated in the round opening *b'* in the crown-piece. The pin *b*⁴ is then passed through the lugs *b*² and the groove in the rib *a*³ on the bottom of the ball *a*. It will be noticed that the bottom of this groove is curved. The pin *b*⁴ fits snugly against the ball, thus holding it, as above stated, at all times close in the opening *b'*, thereby forming a true ball bearing or socket and giving the shank a full bearing on all sides.

The construction of the few parts of this anchor requires no machine work, and the assembling of the parts is very simple, thereby considerably reducing the cost of manufacture and the selling price. The shank being rectangular, it is impossible for the crown and flukes to revolve, thus enabling the anchor to catch with certainty.

What I claim, and desire to secure by Letters Patent, is—

In an anchor, a rectangular shank, a ball integral with and on one end of said shank, a groove having a curved bottom, formed on the bottom of the said ball, a crown-piece having integral flukes, a central longitudinal opening in the fluke side of the crown-piece, and a cup-shaped opening on the rear side, lugs extending from the crown-piece and provided with openings, a pin adapted to pass through said openings and work in the groove in the bottom of the ball.

In testimony whereof I affix my signature in presence of two witnesses.

FREDERICK BALDT.

Witnesses:

SAM. LYONS,

H. L. DONALDSON.