No. 822,420. PATENTED JUNE 5, 1906.

W. L. ADAMS.

ANCHOR.

APPLICATION FILED SEPT. 18, 1905.

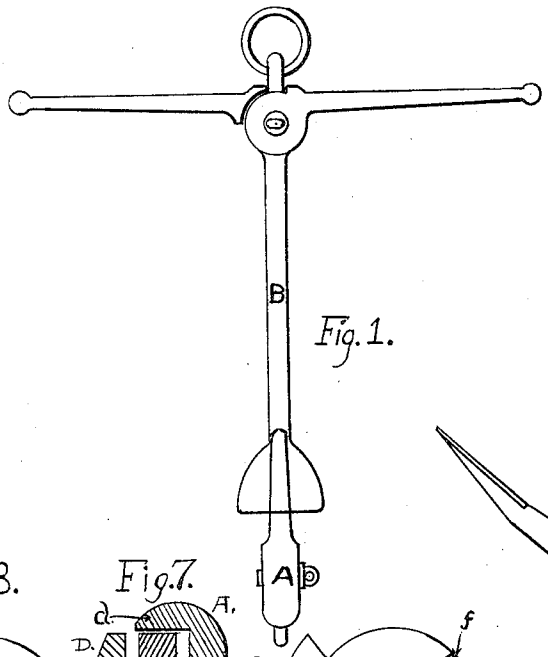


Fig. 1.

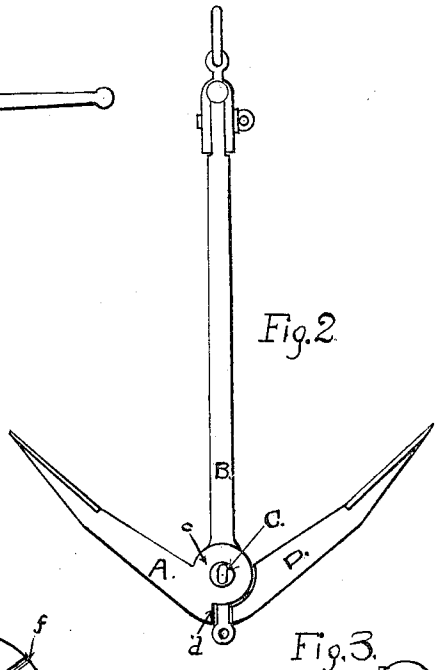


Fig. 2.

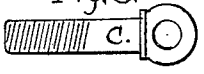


Fig. 3.

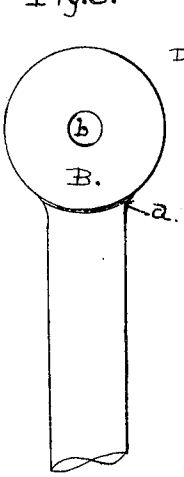


Fig. 8.

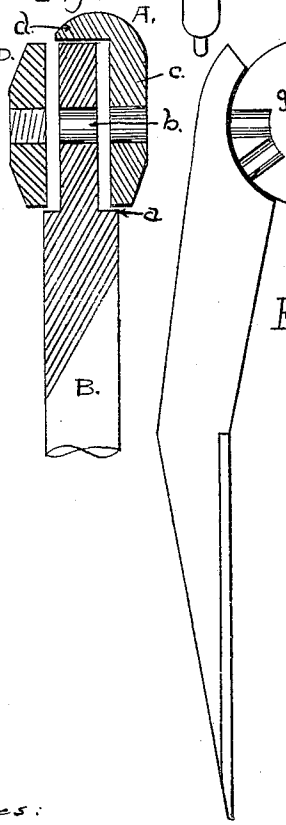
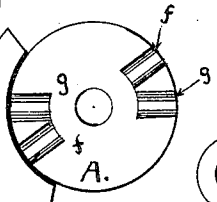


Fig. 7.



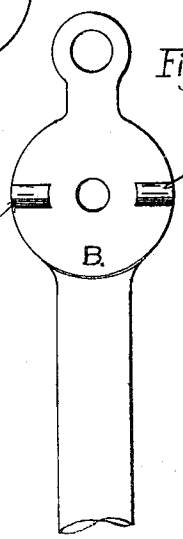


Fig. 5.

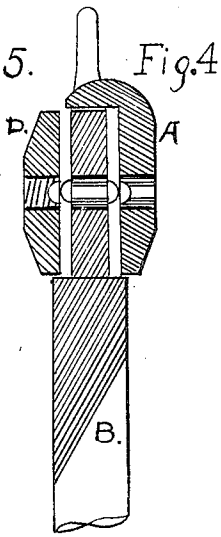


Fig. 4.

Fig. 6.

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Atty

UNITED STATES PATENT OFFICE.

WILLIAM L. ADAMS, OF SOUTH PORTLAND, MAINE, ASSIGNOR TO GEORGE H. GRIFFEN, OF PORTLAND, MAINE, AND JOHN E. FISHER, OF SOUTH PORTLAND, MAINE.

ANCHOR.

No. 822,420. Specification of Letters Patent. Patented June 5, 1906.

Application filed September 18, 1905. Serial No. 278,856.

To all whom it may concern:

Be it known that I, WILLIAM L. ADAMS, a citizen of the United States, residing at South Portland, in the county of Cumberland and State of Maine, have invented an Improvement in Anchors; and I hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to anchors, and particularly to that class of anchors provided with folding arms; and it consists in a combination of parts whereby the arms of the anchor may readily be retained in an open or closed position, as desired.

In the drawings, Figure 1 is a side elevation of my device. Fig. 2 is a front view of the same. Fig. 3 is a detail showing the pin. Fig. 4 is a vertical section of the lower portion of the shank and arms with modification of holding device. Fig. 5 is a side elevation of the bottom of the shank with modification. Fig. 6 is a side elevation of one of the arms with modification. Fig. 7 is a vertical section of the lower portion of the shank and arms, and Fig. 8 is a front view of the lower part of the shank.

The shank B may be of the ordinary construction provided at the upper part with a rigid stock, or the stock may be made in two parts to fold, being secured in the open or folded position by means of the same device, whereby the arms are held in such positions as hereinafter described. The lower portion of the shank B is seen in Fig. 7 and terminates in a flat circular piece or plate, (see Fig. 8,) the adjacent portion of the shank forming the shoulders *a*. It is provided at the center with an opening *b*, as shown in Figs. 7 and 8. The arms A and D are of the ordinary construction, (see Figs. 1, 2, and 6,) save that, as shown in Fig. 2, each is provided, but on the opposite sides, with the circular ear *c* of the same or substantially the same diameter as the circular portion of the lower part of the shank B and also below the circular ear with the shoulder *d*, (see Fig. 2,) adapted to contact with one side of the lower end of the shank B when the arms are extended. Each ear is provided with a circular opening registering with the opening *b* in the circular portion of the shank B, which in one, but not in the other, of the ears is threaded, as shown in Fig. 7. In Fig. 3 is shown the pin C, which acts as a pivot for the arms A and D and is inserted through the plain apertures of one of the ears *c* and of the shank and then screwed by means of its thumb-piece into the threaded portion of the other ear.

The operation of the device will, it is believed, be readily perceived. Assuming the arms to be closed and that it is desired to open them, the pin C is first unscrewed sufficiently to allow the parts to move, when the arms A and D are depressed into the position shown in Fig. 2, the shoulders *d d* of the arms resting against the opposite sides of the lower end of the shank. The screw C is then reversed in movement until the parts are securely held and clamped together. The reversal of the operation takes place when it is desired to close and hold closed the arms.

In Figs. 4, 5, and 6 is shown a modification of the device whereby in the case of larger anchors greater security may be obtained in retaining the parts in the desired position. The lower portion or circular plate of the shank *b* is provided on each face with projections or dogs *e*, (see Figs. 4 and 5,) which are diametrically opposite. The inner face of each of the ears *c c* of the arms A and D are provided with depressions *f g*, adapted to receive the projections *e e*, each pair *f f* and *g g* being diametrically opposite and so located that one pair *f f* will receive the projections *e e* when the arms are open and the other pair *g g* will receive the projections *e e* when the arms are closed.

The operation of the modified device is similar to that already indicated. The pin is unscrewed as before to such an extent as to permit the projections *e e* to pass out of the depressions in the ears and permit the arms to assume the desired new position. When this is reached, the projections fall into the other pair of depressions, and the parts are locked together by reversing the movement of the screw as before.

What I claim is—

1. In a folding anchor the shank provided with a circular plate, having a central plain aperture, arms provided with shoulders adapted, when the arms are extended, to contact with the lower end of said shank and also with ears having similar apertures one of

which is threaded and a threaded pin adapted to serve as a pivot for said parts, substantially as described.

2. In a folding anchor, the combination of a shank having near the lower end a circular plate with plain central apertures, arms provided with circular ears with central openings adapted to register with the opening in said plate, one of said openings being threaded, and a shoulder upon each arm beneath said ear adapted to contact with the side of the lower end of said shank, and a threaded pin for coupling the parts together, substantially as described.

3. In a folding anchor, the combination of a shank having at the lower end a circular plate with a central circular opening, and projections on each face of said plate, arms provided with circular ears with central circular openings adapted to register with the opening in said plate, each of said arms being provided with a shoulder beneath said ear adapted to contact with the lower end of said shank, depressions upon the inner surface on each of said ears adapted to receive said projections, an opening in one of said ears and a threaded pin for coupling the parts together, substantially as described.

4. In a folding anchor, the combination of a shank provided at the upper end with a folding stock and at the lower end with a circular plate with central circular opening, projections upon each face of said plate, arms provided with circular ears with central circular openings adapted to register with the opening in said plate, each of said arms being provided with a shoulder beneath said ear adapted to contact with the lower end of said shank, depressions in the inner surface of said ears adapted to receive said projections, a thread in the opening of one of said ears and a threaded pin for coupling the parts together, substantially as described.

In testimony that I claim the foregoing as my invention I have hereunto set my hand this 14th day of September, A. D. 1905.

WILLIAM L. ADAMS.

In presence of—

GEO. E. BIRD,

A. C. BERRY.