No. 652,162. Patented June 19, 1900.

G. W. BLACKBURN.

FOLDING ANCHOR.

(Application filed May 2, 1900.)

(No Model.)

Fig. 1.

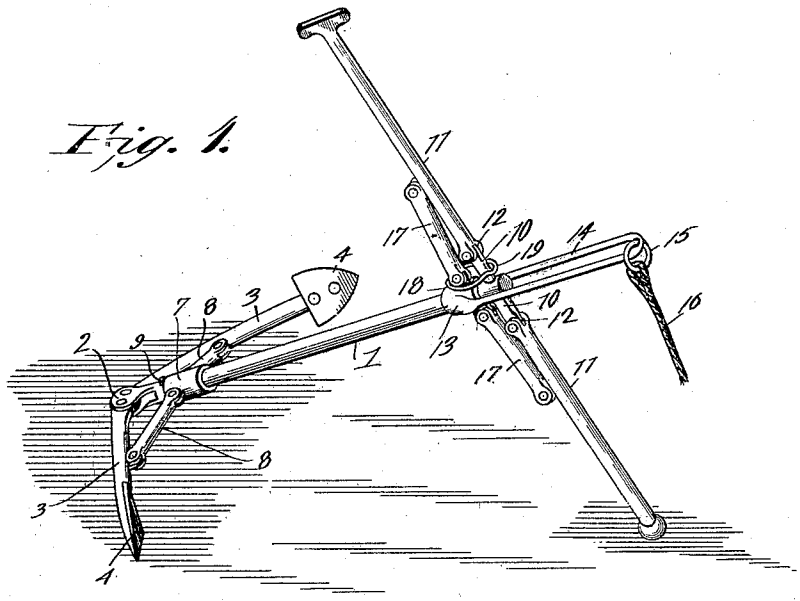


Fig. 2.

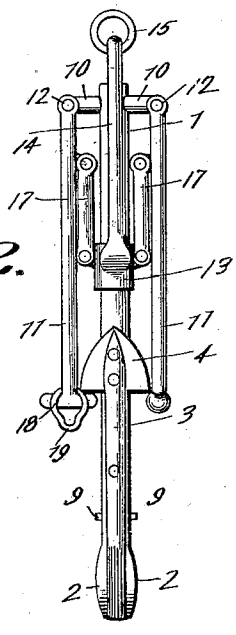
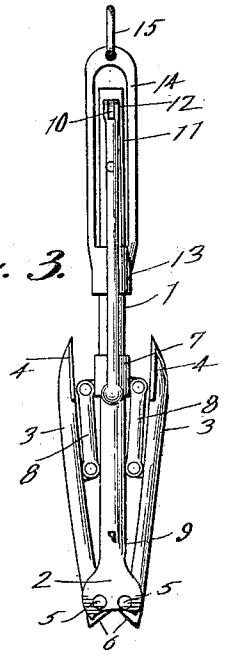


Fig. 3.



Witnesses
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

GEORGE W. BLACKBURN, OF SARASOTA, FLORIDA.

FOLDING ANCHOR.

SPECIFICATION forming part of Letters Patent No. 652,162, dated June 19, 1900.

Application filed May 2, 1900. Serial No. 15,248. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. BLACKBURN, a citizen of the United States, residing at Sarasota, in the county of Manatee and State of Florida, have invented a new and useful Folding Anchor, of which the following is a specification.

This invention relates to anchors, and has for its object to provide an improved foldable device of this character in which the fluke-arms and the opposite stock-sections may be compactly folded against the shank of the anchor, so that the latter may take up but a very small space, and thus may be conveniently stowed away in a small boat, while at the same time the foldable parts are arranged to be conveniently unfolded and secured in their operative positions, so that the anchor may be quickly brought into readiness for casting overboard. It is furthermore designed to provide for connecting the anchor chain or cable with one of the movable parts of the anchor, so that the strain upon the chain or cable will tend to lock some of the movable parts, and thus effectually prevent the same from becoming folded, and thereby useless, while the anchor is in use to secure a boat.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a perspective view of a foldable anchor constructed in accordance with the present invention and shown in its set-up position in readiness for use. Fig. 2 is a side elevation of the anchor in its folded position and looking at one of the fluke-arms. Fig. 3 is a similar view at right angles to Fig. 2.

Corresponding parts in the figures of the drawings are designated by like characters of reference.

Referring to the accompanying drawings, 1 designates the straight shank common to all anchors, the lower end of which is flattened or laterally enlarged and bifurcated longitudinally, so as to form the opposite ears 2. The opposite arms 3 are provided at their outer free ends with the usual flukes 4, and their inner ends are received between the ears 2, to which they are pivotally or hingedly connected by means of the pivot-pins 5. As best illustrated in Fig. 3 of the drawings, the inner ends of the arms are beveled or mitered, as at 6, so as to abut in the opened positions of the arms, and thereby conveniently and firmly brace each other.

Slidable longitudinally upon the shank and immediately above the arms is a sleeve or collar 7, to opposite sides of which are pivotally connected the links 8, which have their outer free ends pivotally connected to the upper sides of the respective arms and substantially midway of their lengths. By this arrangement the slide or sleeve may be moved upon the shank to fold and unfold the arms, as clearly illustrated in Figs. 2 and 3. The outward swing or movement of the fluke-arms is limited by reason of the hinged ends thereof abutting, and the downward movement of the slide is limited by means of the opposite stop-shoulders 9, that project outwardly from the shank at points adjacent to the lower end thereof.

The stock comprises the opposite substantially short and fixed sections 10, which are preferably formed integral with the upper end of the shank, and the outer movable sections 11, which have their inner ends pivotally or hingedly connected, as at 12, to the outer ends of the respective fixed sections, so as to fold downwardly and longitudinally against the shank. The stock and fluke-arms being at right angles to each other, as usual, do not interfere in the folded positions thereof.

Longitudinally slidable upon the shank and between the sleeve 7 and the stock is another slide or sleeve 13, which is provided with a yoke or link 14, that slidably embraces opposite sides of the shank and normally projects outwardly beyond the upper end thereof and is provided at its outer end with a ring 15 for connection with the anchor chain or cable 16. Pivotally connected to opposite sides of this latter slide or sleeve is a pair of links 17, which have their free outer ends pivotally connected

to the under or inner sides of the respective foldable stock-sections, so that the latter may be adjusted or folded by a slidable movement of the sleeve. It will be observed that the link 14 is located in a plane at substantially right angles to that of the stock, so as not to interfere with the latter.

To hold the sections of the stock in their set-up positions, there is provided a link or ring 18, which slidably embraces one of the stock-sections and is designed to embrace the inner end of the adjacent link 17, as shown in Fig. 1, whereby the slide 13 and the stock-sections are held against relative movement and are thus locked in position. The slidable ring 18 is provided with a reduced or contracted extension 19, which is designed to embrace the adjacent fixed stock-section 10 to prevent the stock from being accidentally folded when the anchor has been set up for use. It will be understood that the ring 18 is first inverted, so that it may be passed by the enlarged pivotal connections of the foldable stock-section and the adjacent link 17, after which it is turned upon the smaller fixed stock-section in order that the reduced portion of the ring may embrace the fixed stock-section.

From the foregoing description it will be seen that the present invention provides an exceedingly durable and simple foldable anchor in which all of the parts are connected so as to prevent separation and loss thereof, and they are arranged for conveniently and quickly being set up to place the anchor in proper shape for casting overboard. Also the strain of the anchor chain or cable is placed upon the slide 13, so that the latter is always drawn tightly against the links 17, thereby preventing the stock-sections from becoming accidentally folded while the anchor is in use, and the link 18 holds the stock in position until the flukes take hold upon the bottom. Moreover, the strain upon the fluke-arms is outward, and thus the latter are held against becoming folded.

What is claimed is—

1. A foldable anchor, having a shank, which is bifurcated at its lower end, opposite arms, having their inner ends mitered to abut and pivotally mounted within the bifurcation of the shank, flukes at the outer free ends of the arms, a slide mounted upon the shank, links pivotally connecting the slide to the respective arms, and a stop provided upon the shank to limit the movement of the slide toward the arms.

2. A foldable anchor, having a shank, a foldable stock, and a slide mounted upon the shank, having a locking engagement with the stock, and also provided with means for connection with an anchor chain or cable to hold the slide in engagement with the stock.

3. A foldable anchor, having a shank, opposite stock-sections pivotally or hingedly connected to the shank, a slide mounted upon the shank, links pivotally connecting the slide to the respective stock-sections, and means for connecting the slide to an anchor-cable.

4. A foldable anchor, having a shank, opposite stock-sections pivotally or hingedly connected to the shank, a sleeve slidable upon the shank, links pivotally connecting the sleeve to the stock-section, and a yoke connected to the sleeve, slidably embracing and projecting beyond the adjacent end of the shank, and constructed for connection with an anchor-cable.

5. A foldable anchor, having a shank, opposite stock-sections pivotally or hingedly connected thereto, links pivoted to the respective stock-sections, and having a slidable connection with the shank, and a link or ring slidable upon one of the stock-sections and to embrace the latter and the adjacent link, in the set-up position of the parts.

6. A foldable anchor, having a shank, opposite fixed stock-sections, foldable stock-sections pivotally or hingedly connected to the respective fixed sections, links pivotally connected to the respective foldable sections and having a slidable connection with the shank, and a link or ring, which is slidable upon one of the foldable sections and arranged to embrace the latter and the adjacent link, and also having a reduced lateral extension to embrace the fixed stock-section.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

GEORGE W. BLACKBURN.

Witnesses:

HARRY L. NIGEL,

J. L. VINCENT.