

T. B. BUTTERS.
ANCHOR.
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1,028,673.

Patented June 4, 1912.

Fig. 1.

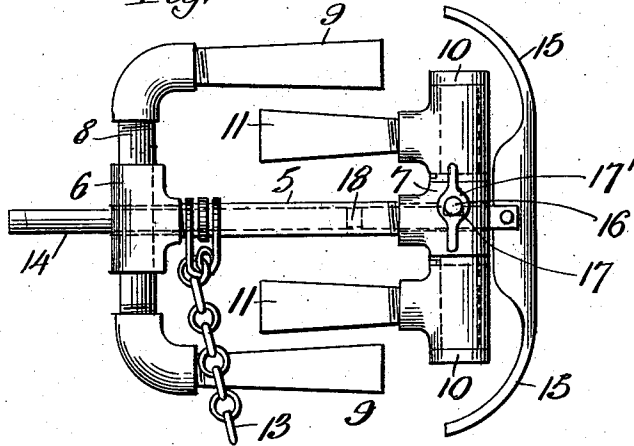


Fig. 2.

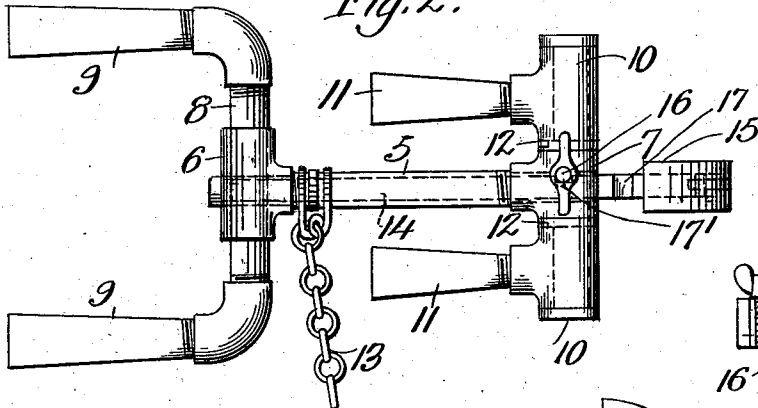


Fig. 4.

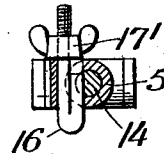
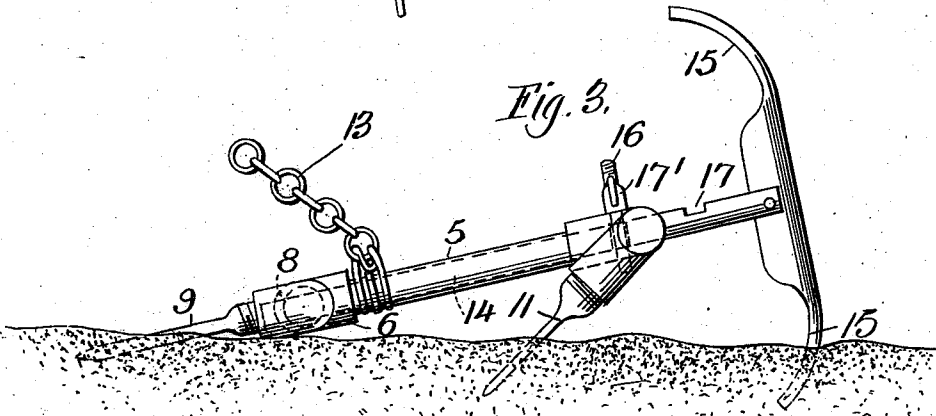


Fig. 3.



WITNESSES

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THOMAS B. BUTTERS, OF NEW YORK, N. Y.

ANCHOR.

1,028,673.

Specification of Letters Patent.

Patented June 4, 1912.

Application filed December 19, 1911. Serial No. 666,790.

To all whom it may concern:

Be it known that I, THOMAS B. BUTTERS, a subject of the King of Great Britain, residing at 123 West Thirty-third street, New York, in the county of New York and State of New York, have invented new and useful Improvements in Anchors, of which the following is a specification.

This invention relates to anchors and more especially to that class where the flukes may be folded in order to store the anchor within a very small space and where they can be released and allowed to operate when in use as will be more fully described in the following specification, set forth in the claims and illustrated in the drawings, wherein,

Figure 1 is a plan view of the anchor folded. Fig. 2 is a similar view with the anchor opened. Fig. 3 is a side view of the anchor in operation.

The anchor is preferably made of metal and consists of a tubular shank 5 having T-heads 6 and 7 at each end. The head 6 acts as a journal for the spindle 8 of the flukes 9, while the head 7 carries at each side headed studs 10 on which are arranged the flukes 11 but whose movement is limited by shoulders 12 on the T-head 7. These flukes 11 are flattened so as to dig in to the sand or mud and the greater the strain put upon the chain 13 carried by the shank 5, the deeper the flukes will penetrate the sand.

The flukes 9 and their spindle are free to rotate in the head 6 but the spindle is perforated and through the perforation passes the stem 14 of end flukes 15 so that when they occupy the folded position shown in Fig. 1, the stem 14 passes through the spindle and retains the flukes in the position shown in Fig. 1.

When the anchor is extended for use as shown in Fig. 2, the stem 14 is withdrawn from the perforation in the spindle 8, which is then free to rotate and thrown into the position shown in Fig. 3, and again locked by the stem. The stem 14 is held in its two positions by means of the key 16 which en-

gages one of the slots 17 or 18, the latter when the anchor is extended or the recess 17 when the anchor is folded.

The key 16 is best shown in Fig. 4, where it would be seen that it is adjusted by means of the nut 17' which draws the key into the slot of the stem 14 to prevent its rotation or its longitudinal movement and in consequence the flukes 15 may be retained in the horizontal position shown in Fig. 1 or turned at a right angle to dig into the sand as shown in Fig. 3.

With an anchor thus arranged, a maximum amount of resistance is secured and when folded, it may be packed in a very small compartment so that several of these anchors may be carried on a vessel without any serious inconvenience and they will possess sufficient resistance to answer the purpose of several anchors when in use.

It is obvious that the anchor may be otherwise arranged or modified without departing from the essential features above described.

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

1. In an anchor, the combination with a hollow shank, of folding flukes at each end of same, and a sliding and rotating stem with flukes and locked within the shank.

2. In an anchor, the combination with a tubular shank, of movable flukes at each end of same, a stem carried within the shank and having flukes, and locking means for holding the latter flukes in an operative or folding position.

3. In an anchor, the combination with a tubular shank, of movable flukes at each end of the shank, a stem within the shank, auxiliary flukes at the outer end of the stem, and means adapted to lock the movable and auxiliary flukes in a folded and inoperative position.

4. In an anchor, the combination with a tubular shank, of T heads at each end of the shank, flukes carried by each T head, a rotatable and slidable stem carried in a tubular shank, flukes at the outer end of the stem,

and means connected with the stem for locking the stem so as to retain the flukes in a folded or an operative position.

5 In an anchor, the combination with a tubular shank, of a cross head at each end of the shank, a perforated spindle with flukes at one end of the shank, flukes on studs and carried by the other head of the shank, a stem with recesses, flukes carried by the stem,

and a bolt adapted to enter the recesses and 10 lock the stem.

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

THOMAS B. BUTTERS.

Witnesses:

JAMES F. DUHAMEL,

THEO. H. FRIEND, Jr.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."