

G. C. Pattison,
Anchor.

No. 111,145.

Patented Jan. 24, 1871.

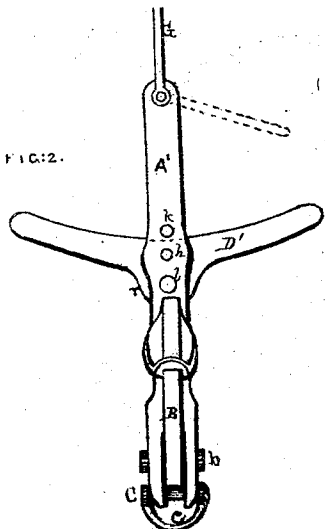


FIG. 2.

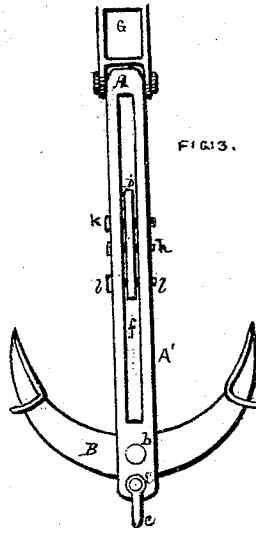


FIG. 3.

FIG. 6.

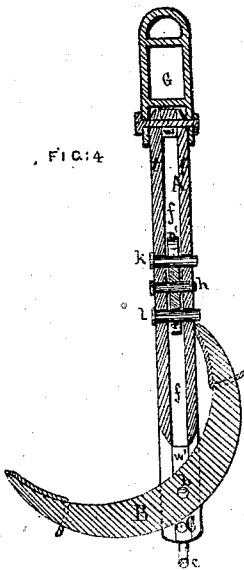
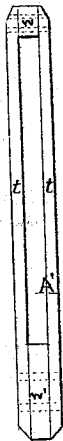


FIG. 4.

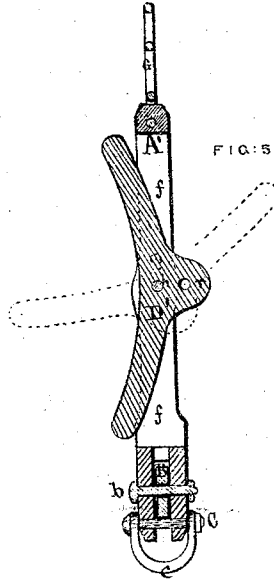


FIG. 5.

WITNESSES
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GURNEY C. PATTISON, OF BALTIMORE, MARYLAND.

Letters Patent No. 111,145, dated January 24, 1871.

IMPROVEMENT IN ANCHORS.

The Schedule referred to in these Letters Patent and making part of the same.

I, GURNEY C. PATTISON, of Baltimore, in the county of Baltimore and State of Maryland, have invented certain Improvements in Anchors, of which the following is a specification.

The nature of my invention consists, first, in pivoting the stock of the anchor within a slot cut or formed in its shank, so that either end thereof may swing to a limited extent in the direction of the length of the shank, the object of this part of my invention being to facilitate the disengagement of the cable from the stock in the event of its entanglement therewith.

In the accompanying drawing—

Figure 2 is a side elevation of my improved anchor, illustrating the pivoted stock as secured by means of a transverse pin;

Figure 3, a front view thereof, with said pin removed;

Figure 4, a central vertical or longitudinal section in line *x x* of fig. 2;

Figure 5, a similar section in line *y y* of fig. 3; and

Figure 6, a view of the slotted shank, detached and partially finished, illustrating the manner of constructing the same.

A' is the shank of the anchor.

It is constructed, by preference, of two flat-faced plates *t t* of wrought-iron, of a width equal to that required in the shank.

These plates are laid face to face upon interposed plates *w w'* at each end thereof, and whose length determine the length of the slot *f* thus formed.

The lower plate *w'* is made long enough to afford ample space for cutting therein the transverse slit or slot required in the lower end of the shank for the reception of its fluke-arm.

The four plates *t t* and *w w'* are welded together, and, if deemed advisable, are furthermore strengthened by rivets, as illustrated by dotted lines in fig. 6, and, being thus united and subsequently finished off as required, constitute the shank A', as illustrated in the remaining figures of the drawing.

B is the fluke-arm, made in the usual manner, and pivoted, by means of a transverse bolt, *b*, within a

slit or slot formed in the lower end of the shank, at right angles to the central extended slot therein.

D' is a slightly-curved bar, constituting the stock of my improved anchor.

This curved bar is made flat-sided, and is enlarged centrally (see *r*) on its outer curve, as illustrated in section, fig. 5.

It is pivoted centrally in the extended slot *f* of the shank, at right angles to the fluke-arm B, with its convex edge toward said fluke-arm, upon a transverse bolt, *h*, fig. 4.

The stock D' can thus freely swing in the slot in either direction, but its movements are arrested by means of a second transverse bolt or pin, *k*, figs. 2 and 3, passing through the shank above the stock, and which stops it in either direction at such an angle (see the dotted lines, fig. 5) as will effectually prevent any lodgment or engagement of a chain or cable thereon.

To prevent any movement whatever of the stock, a third pin, *l*, (see figs. 2 and 4,) may be inserted transversely through the shank and through an aperture pierced in the enlarged central portion *r* of the stock.

By removing both the pins *k* and *l* the stock may be swung around into the slot *f* so as to lie partially inclosed within the shank A', as illustrated by the positive lines in fig. 5. This greatly facilitates close stowage of the anchor when not in use.

The shank A' may, if desired, be forged solid instead of being constructed as herein described, and the necessary slot *f* therein be subsequently cut out to receive the stock.

I claim as my invention—

A stock, D', pivoted upon the shank A' of an anchor, about midway its length, substantially in the manner and for the purpose herein set forth.

The foregoing specification of my improvement in anchors signed by me this 7th day of July, 1870.

G. C. PATTISON.

Witnesses:

DAVID A. BURR,
H. H. YOUNG.