C. T. Julius.

Anchor.

No. 60,903. Patented Jan. 1, 1867.

Fig. 1.

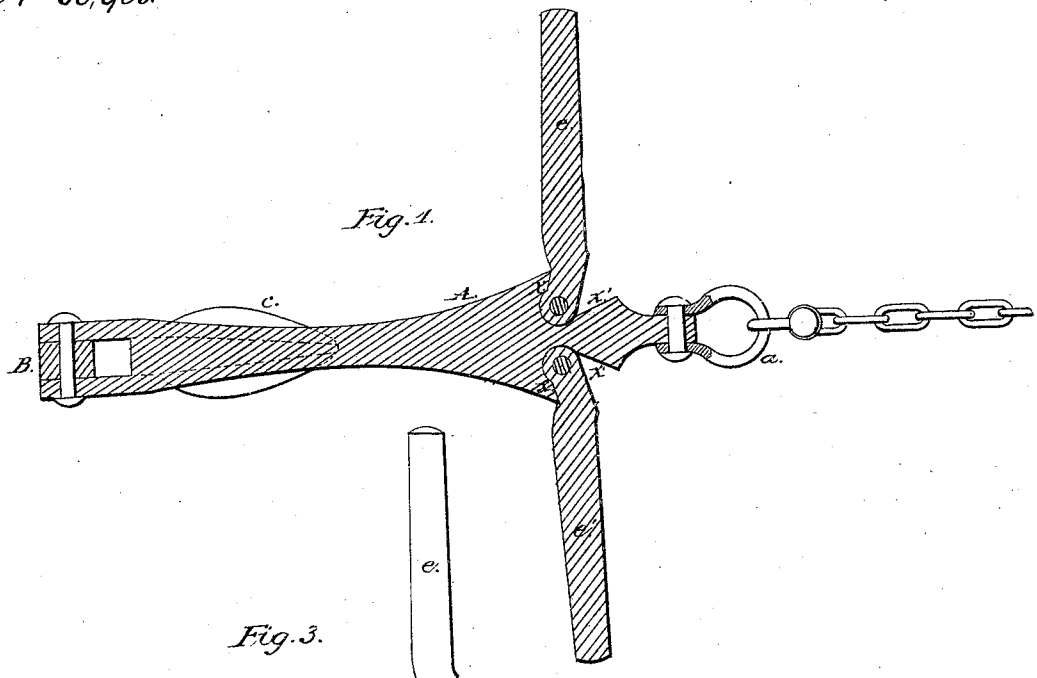


Fig. 3.

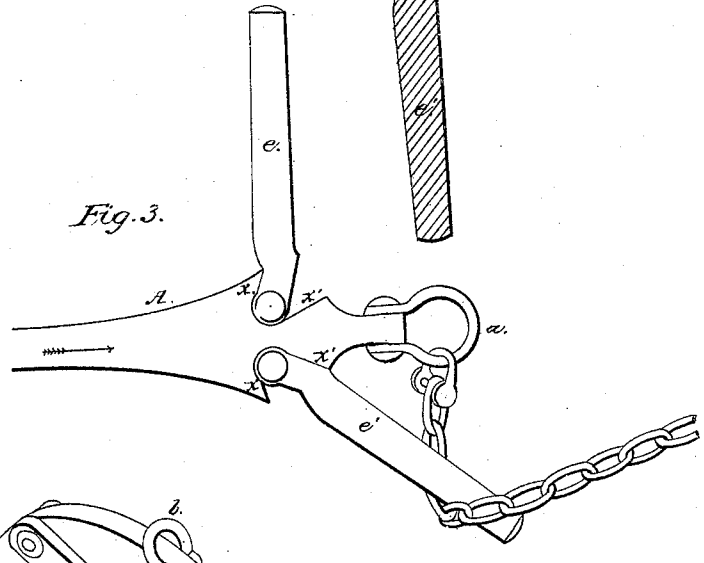
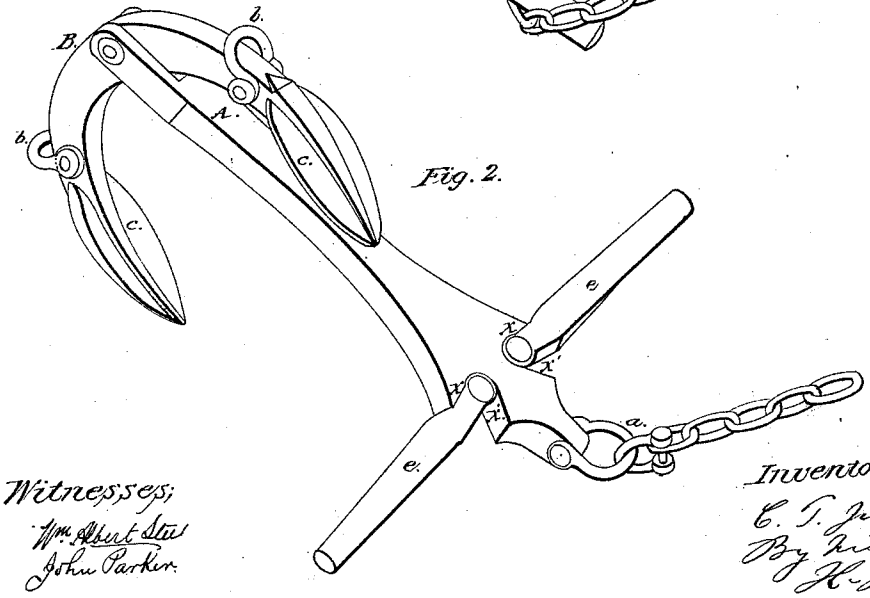


Fig. 2.



Witnesses;
Wm. Albert Stai
John Parker.

Inventor;
C. T. Julius
By his Atty
H. Howson

United States Patent Office.

CHARLES T. JULIUS, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 60,903, *dated January* 1, 1867.

IMPROVED ANCHOR.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, CHARLES T. JULIUS, of Philadelphia, Pennsylvania, but now residing at Liverpool, England, have invented an Improvement in Anchors; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

My invention consists of certain arms hinged to and otherwise combined with an anchor, substantially as described hereafter, so as to prevent the entangling of the cable with the anchor, which frequently takes place owing to the swinging motion of a vessel in a tide-way and from other causes.

In order to enable others skilled in the art to make my invention, I will now proceed to describe its construction and operation, reference being had to the accompanying drawing, which forms a part of this specification, and in which—

Figure 1 is a view partly in section of my improved anchor.

Figure 2, a perspective view; and

Figure 3, a view illustrating the advantage of my improvement.

A is the shank of the anchor, to one end of which is connected the usual ring *a*. To the crown end of the shank is jointed a curved bar, B, at each end of which is a fluke, *c*, and to the bar near each fluke is jointed a link, *b*. To the shank A are jointed two arms *e e'*, which can be turned to the positions shown in figs. 1 and 3, the movements of the arms being limited by shoulders *x x'* on the shank. When the anchor rests on the bed of a river or harbor, it occupies the position shown in fig. 2. If owing to the swinging motion of the vessel in a tide-way or from any other cause, the cable should become coiled round one of the arms *e* or *e'*, the latter will be turned back until it strikes the shoulder *x'* of the shank, as shown in fig. 3, when the cable will readily free itself from the arm. As the anchor is dragged onward in the direction of the arrow, fig. 3, its arm will be turned to its former position against the shoulder *x*, as seen in figs. 1 and 2. Although I have shown and described the anchor with a curved fluke-bar hinged to the shank, it will be apparent that my invention may be applied to ordinary anchors.

I claim as my invention, and desire to secure by Letters Patent—

The arms *e* and *e'*, hinged to and otherwise combined with an anchor, substantially as and for the purpose described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHAS. T. JULIUS.

Witnesses:

THOMAS H. DUDLEY, U. S. Consul, Liverpool,

JOHN S. WILLISTON.