

J. Stewart.
Hawse Pipe Stopper.
N^o 62,902. Patented Mar. 12, 1867.

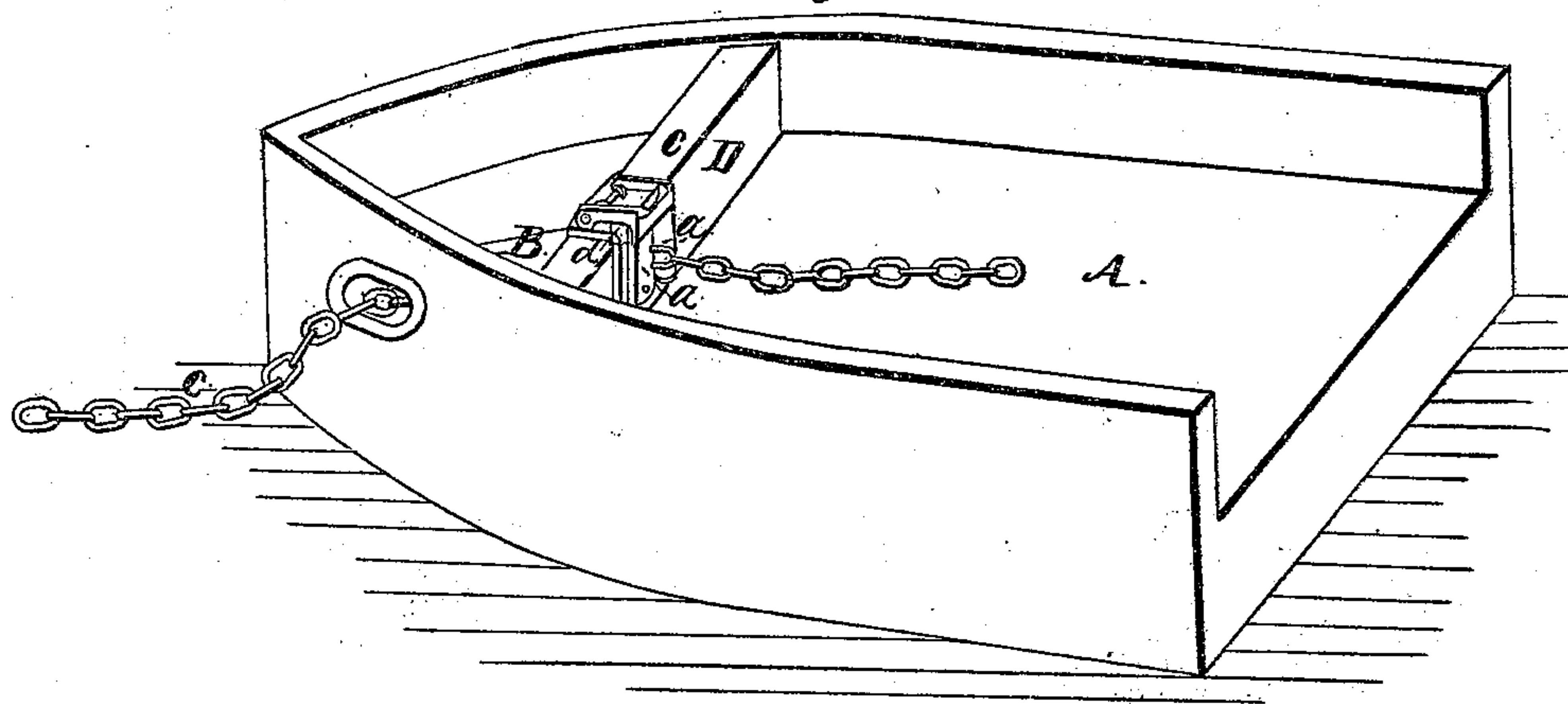


Fig. 2.

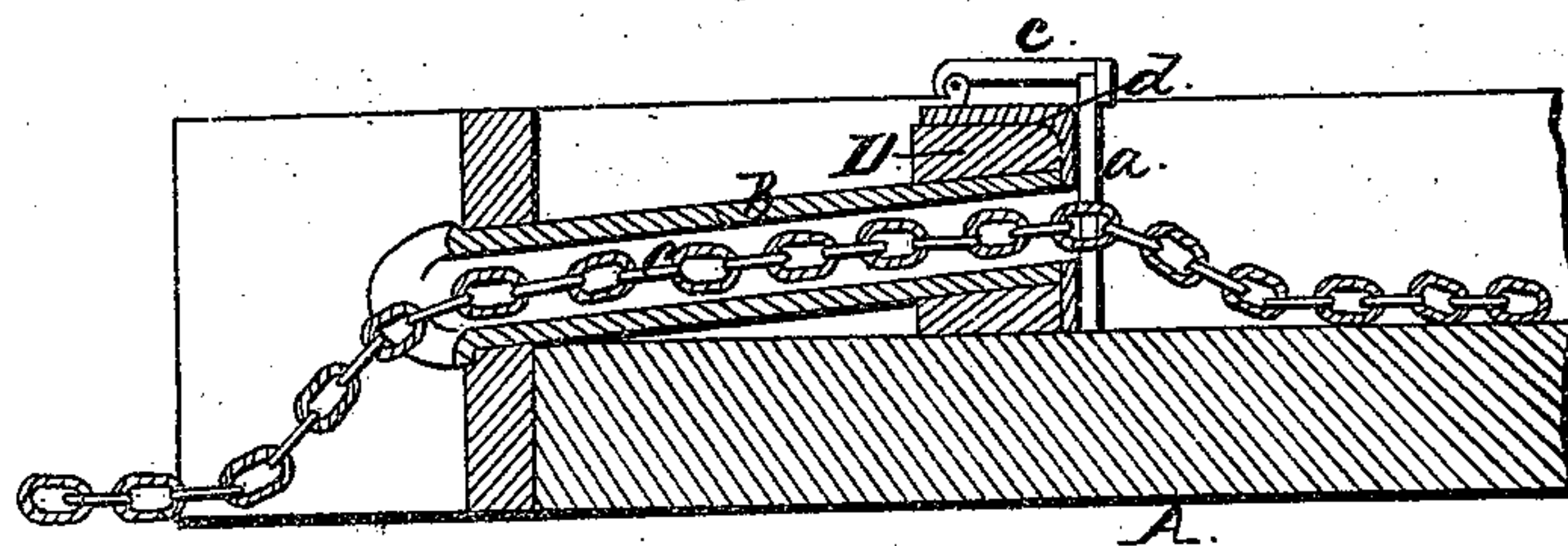
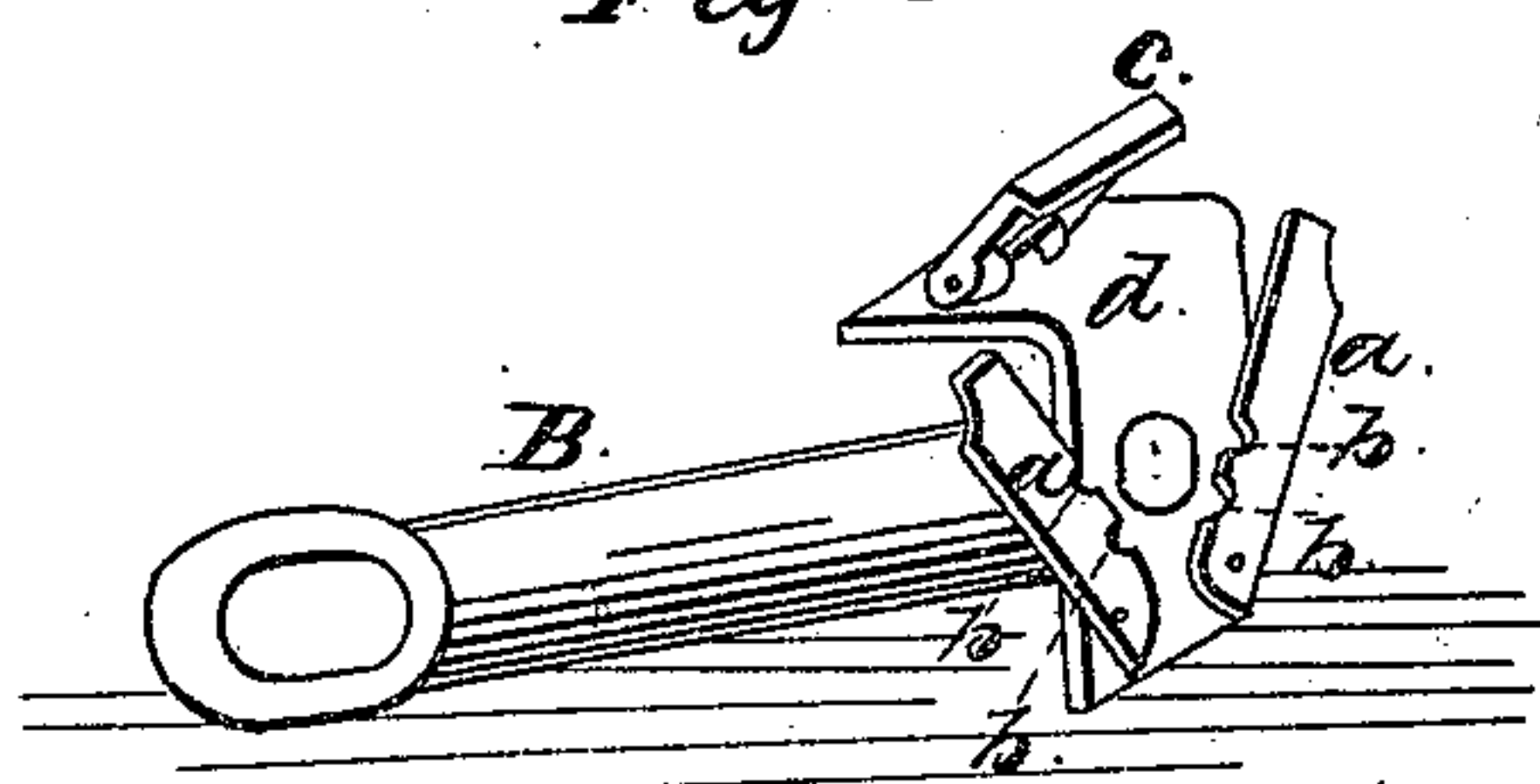


Fig. 3.



Witnesses:
J. H. Dodge
Isabel Dodge

Inventor:
James Stewart
By T. W. Porter
His Attorney

United States Patent Office.

JAMES STEWART, OF BANGOR, MAINE.

Letters Patent No. 62,902, dated March 12, 1867.

IMPROVED HAWSE-PIPE STOPPER.

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, JAMES STEWART, of Bangor, in the county of Penobscot, and State of Maine, have invented a new and useful "Hawse-Pipe" Stopper; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification, in which—

Figure 1 is a perspective view.

Figure 2 is a vertical section; and

Figure 3 is a detached view.

Similar letters of reference indicate corresponding parts in the several figures.

The nature of my invention consists in applying to the inner end of the pipe, through which a vessel's chain cable passes, (and which is known as a hawse pipe,) a metallic plate fitting closely to said pipe, and upon which are pivoted two other plates, having upon the inner edge of each two semicircular indentations corresponding to the half diameter of the iron from which the links of the cable are formed, and which, when closed together, fit closely to said links.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A represents a section of the bow of a vessel; B is the "hawse pipe," which is formed in the usual manner except its inner end, which, instead of being cut at an angle corresponding to its obliquity to the side of the vessel, should be cut at right angles to the axis of the pipe, and a chock, as shown at D, should receive the inner end of the pipe. *d* is a plate, formed with a hole through it of the same size as the bore of the hawse pipe. This plate I form with an angle so that it bears upon the after and upper side of chock D, and it is made to fit water-tight to the end of the hawse pipe. *aa* are two plates, which are pivoted at their lower ends to plate *d*, in such manner that they may be thrown apart or their inner edges brought together. Upon the inner edges of each of these plates are formed two semicircular grooves or indentations, *bb*, of a size and distance apart to correspond with the size of iron and width of the chain-links. *c* is a clasp, hinged to the top of plate *d*, and which, when the plates *aa* are brought together, closes over and secures them in that position. This invention is designed for use, especially, upon vessels which have their windlass upon the lower or main deck; as almost all sea-going and coastwise steamers do; many of which carry their chains "bent" at all times; and in rough weather, especially with a "head sea," have their between decks flooded with water pouring in through the hawse pipes, or else endeavor to close them with oakum, canvas, or such material, which, to be at all effectual, must be forced in hard, and then by swelling holds the chain so firmly that it cannot run out when the anchor is let go, and the ship is often thereby endangered or lost. But with this invention it is only necessary to place the link upon edge, close the plates *aa* together and secure them by clasp *c*, when the hawse pipe is as tight as any part of the ship, while in a moment the chain may be liberated ready for letting the anchor go. The plates *aa* may be formed, as shown, with grooves to fit the chain, or they may be formed to receive dies having in them the grooves *bb*, whereby the same size of plates would serve for a variety of sizes of cable; and if desired a rubber or other elastic packing may be combined with the plates *aa*.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The plates *aa*, in combination with hawse pipe B, when arranged to operate in manner substantially as described and shown.

JAMES STEWART.

Witnesses:

H. L. MITCHELL,

WILLIAM TODD.