

O. B. Bearse,

House Pipe.

No. 104,101.

Patented June 14, 1870.

Fig. 1.

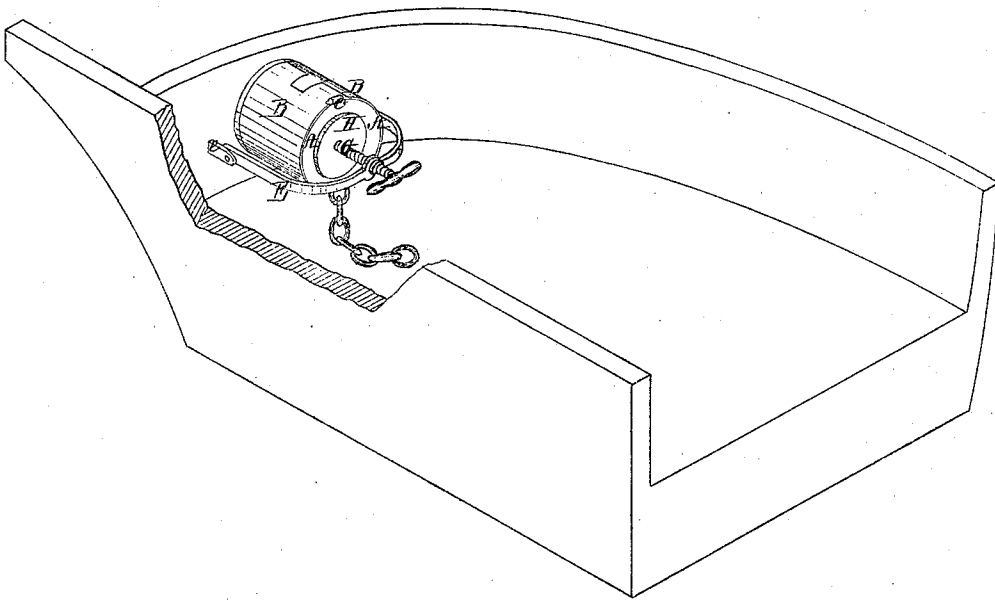
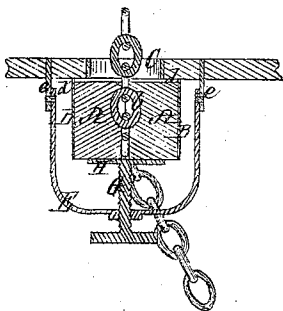
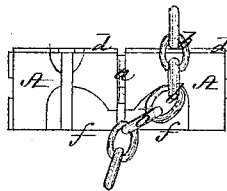


Fig. 2.



Witnesses,  
W. J. Cambridge  
C. E. Batchelder

Fig. 3.



Inventor,  
O. B. Bearse  
By his Attorneys  
Trenchard & Stearns

# UNITED STATES PATENT OFFICE

ORIN B. BEARSE, OF HYANNIS, MASSACHUSETTS.

## IMPROVEMENT IN HAWSE-PIPE STOPPER.

Specification forming part of Letters Patent No. 104,101, dated June 14, 1870.

*To all whom it may concern:*

Be it known that I, ORIN B. BEARSE, of Hyannis, in the county of Barnstable and State of Massachusetts, have invented a Hawse-Pipe Stopper, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, making part of this specification, in which—

Figure 1 is a perspective view of my stopper applied to the hawse-pipe of a vessel. Fig. 2 is a section through the center of the same; Fig. 3, detail to be referred to.

When a vessel is sailing in a rough sea with the hawse-pipe open, more or less water is taken in at this point, the quantity being greater in vessels of small tonnage, where the hawse-hole is near the water, as is particularly the case with sloops, schooners, &c., the cargo being frequently damaged from this cause.

A wooden plug has been commonly used for closing the hawse-hole; but this plug can only be used when the chain is "unbent," and is objectionable for the reason that it becomes easily loosened and displaced, and, furthermore, is not always at hand when required.

To obviate the above-mentioned difficulties is the object of my invention, which consists in a hinged block or clasp which surrounds the chain and holds it securely in place, the outer end of each portion of the clasp being provided with a packing of rubber or other suitable elastic material, which prevents the water from entering when the clasp is forced against the inner end of the hawse-pipe by means of a screw-clamp or other suitable device.

To enable others skilled in the art to understand and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawing, A A are two semi-cylindrical blocks, surrounded by straps or bands B B, hinged together at *a*.

The inner surfaces of the blocks A A are recessed out for the reception of the links *b* of the chain to which the anchor on the "cat-head" is secured, the chain fitting the portions of the block so snugly that when they are closed down upon it they serve as a clasp, which is locked by means of a pin, *c*, thus holding the chain securely in place.

To the outer end of each of the blocks A A

is secured a packing, *d*, of rubber or other suitable elastic material, which fits closely around the link which projects from the block, and thus prevents the entrance of water and consequent damage to the cargo when the stopper is pressed firmly against the inner end of the hawse-pipe C by the device which will now be described.

*e e* are two studs projecting from the inside of the bulwark or plank-shear, one on each side of the hawse-pipe. To each stud is pivoted one end of a bent brace, E, through the center of which passes a screw, G, to the outer end of which is secured a disk, H, which is turned hard down upon the inner end of the stopper, thereby forcing the elastic packing *d* tightly against the inner end of the hawse-pipe, and effectually preventing the entrance of water. The inner end of the stopper is cut away at *f*, so that the links may lie flush with its end surface, and allow the disk H to fit snugly up against it.

When it is desired to cast anchor, the disk H is withdrawn by turning the screw G, when the brace E may be swung up to allow the stopper to be opened by removing the pin *c*, when the chain is released and allowed to run out of the hawse-pipe.

The stopper, instead of being made in two pieces hinged together, may be made in one piece, provided with an elastic packing, and be used in connection with the screw-clamp for stopping the hawse-pipe when the chain is "unbent."

### *Claim.*

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

The within-described stopper, consisting essentially of the two blocks A A, which surround and hold the chain, in combination with an elastic packing, *d*, and a screw-clamp, or equivalent device, for holding the stopper against the hawse-pipe, substantially as and for the purpose set forth.

Witness my hand this 17th day of March, A. D. 1870.

O. B. BEARSE.

Witnesses:

N. W. STEARNS,  
W. J. CAMBRIDGE.