

*J. P. Maddox,*

*Hatchway.*

*No. 102,330,*

*Patented Nov. 15, 1870.*

Fig. 1.

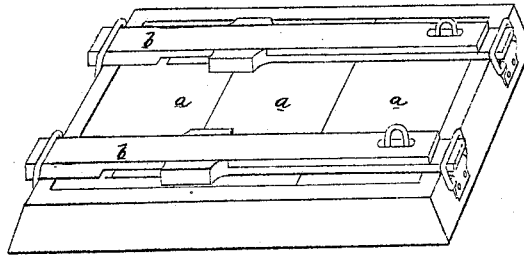


Fig. 2.

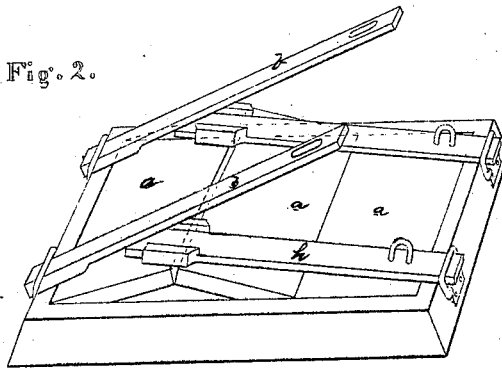
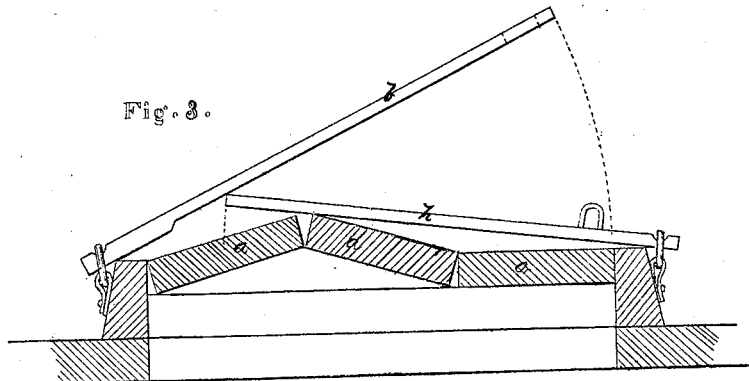


Fig. 3.



*Witnesses.*

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# United States Patent Office.

JOSHUA P. MADDOX, OF BELFAST, MAINE.

Letters Patent No. 109,330, dated November 15, 1870.

## IMPROVEMENT IN VESSEL'S HATCHES.

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, JOSHUA P. MADDOX, of Belfast, in the county of Waldo and State of Maine, have invented a new and valuable Improvement in Vessel's Hatches; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of the hatch closed.

*a a a* are the hatches;

*b b*, the levers used in pressing the hatch into the combings.

Figure 2 is a representation of the hatches placed in position before being pressed into the hatch-combings by the levers *b b*.

Figure 3 is a representation of the hatch before the power is applied to the levers; it also represents the movement of the levers when the power is applied to them, and also the method of attaching the ends of the levers to the shackle on the hatch-combing.

My invention consists in providing double levers, or their equivalents, for pressing down and securing the hatches of vessels, in the manner hereinafter specified.

The short lever *h* extends only part of the width of

the hatches, one end passing through a becket or shackle, *c*, attached to the hatch-combing. This lever is of the same thickness throughout its whole length.

A long lever, *b*, passes under a shackle on the opposite combing, and passes directly over the whole length of the short lever, and fastens by a staple affixed to the short lever passing through a hole in the long lever.

A guard, *d*, holds the under lever in place; or it may be held by a standing bolt passing through the upper lever.

The levers may run fore and aft, or athwart ships.

### *Claim.*

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

The method of pressing down and securing vessel's hatches by double levers, or their equivalent, as herein described.

In testimony that I claim the above, I have hereunto subscribed my name in the presence of two witnesses.

JOSHUA P. MADDOX.

Witnesses:

WM. H. FOGLER,

G. D. McCOLLIS.