

M. MULHOLLAND.
 HATCH FASTENER FOR VESSELS.
 APPLICATION FILED OCT. 28, 1908.

970,447.

Patented Sept. 13, 1910.

Fig. 1.

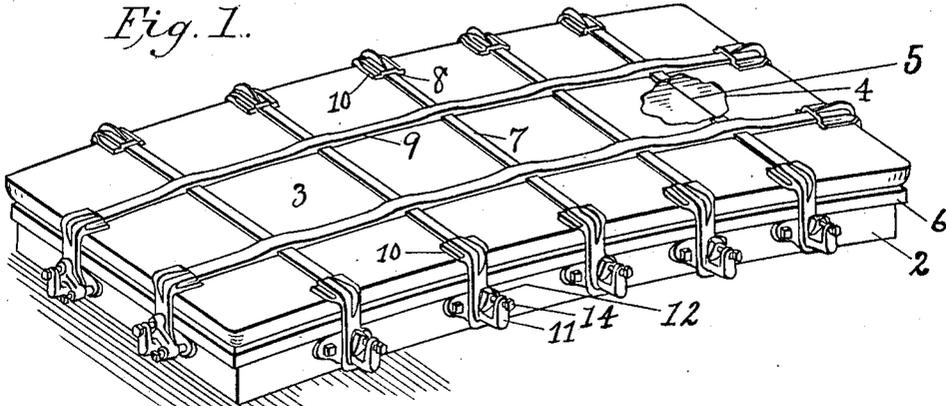


Fig. 3.

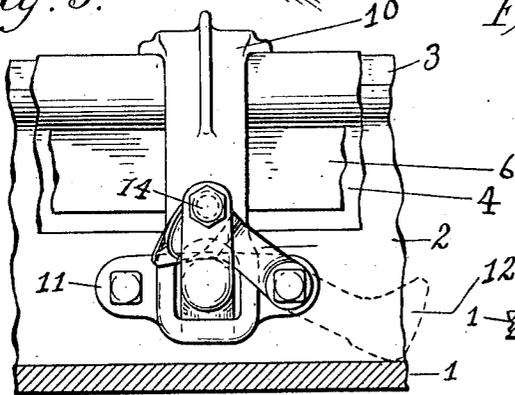


Fig. 2.

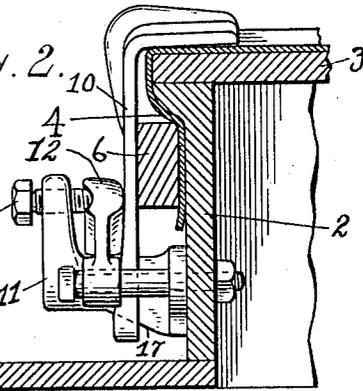


Fig. 4.

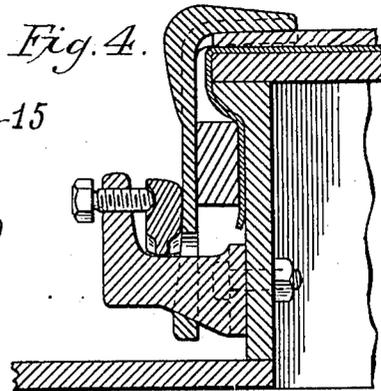


Fig. 5.

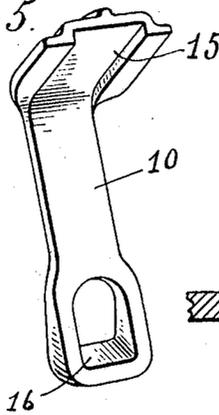
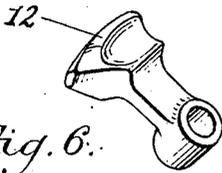


Fig. 6.



Witnesses:
 A. L. Lord
 Leota M. Lemmill.

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 Mathew Mulholland.
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UNITED STATES PATENT OFFICE.

MATHEW MULHOLLAND, OF CLEVELAND, OHIO.

HATCH-FASTENER FOR VESSELS.

970,447.

Specification of Letters Patent. Patented Sept. 13, 1910.

Application filed October 26, 1908. Serial No. 459,526.

To all whom it may concern:

Be it known that I, MATHEW MULHOLLAND, a citizen of the United States of America, and a resident of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in Hatch-Fasteners for Vessels, of which the following is a specification.

This invention relates to hatchways for vessels; and it consists in the provision of a fastener for holding down the battens on a hatch cover and having for its object, the effect of sealing and securing the said hatch cover in a simple and readily manipulated manner, to avoid leakage.

The invention is clearly illustrated in the accompanying drawing, which forms a part of this specification, and in which—

Figure 1 is a perspective view of a hatch way, with the cover placed thereon and showing a plurality of my fasteners in position and batten strips in connection therewith, all in the preferred form. Fig. 2 discloses one of my fasteners in elevation and in connection with the several parts, entering in to the construction of an ordinary hatch way, these being shown in section. Fig. 3 is another view of the same construction showing the disposition of the parts. Fig. 4 is a sectional view of the device as seen in Fig. 2. Fig. 5 serves to disclose one of the members of the device, and disclosing the recess provided for the batten. Fig. 6 discloses a swinging dog as being another member of my device.

Like figures of reference refer to like parts throughout the several figures in the drawing.

In a more particular reference to the drawing, 1 is the deck of a vessel, 2 the coaming or raised portion usually around the edge of a hatchway opening, and 3 is the cover therefor which will be seen in position in Fig. 1. These covers are usually in sections and are further protected by a canvas covering 4 which is partially torn out at 4 in Fig. 1 so as to disclose the joint crack, and thus disclose the mode of placing the aforementioned cover sections upon a hatchway; said joint crack is shown at 5. As a means for closely relating the said canvas to the hatch cover as aforesaid, I have shown the usual strip 6 which is adapted to bind the said canvas to the said coaming and in addition I have shown an arrangement of

batten strips 7 and 9 uniformly distributed over the said canvas as disclosed in Fig. 1.

Each of my cover fasteners, in the preferred form, consist in practically the same combination of parts as disclosed in a former application for a similar device, filed May 22, 1908, and bearing Ser. No. 434,365, with the exception that the member 10 is recessed as at 15 in Fig. 5 for the purpose of retaining the batten end therein in a rigid and unmovable manner when in use.

Referring again to the drawing, we will consider the Fig. 2, in which is shown a broken bit of the deck 1 and a part of the hatch coaming 2 with the cover 3 and canvas 4 in position; the bracket 11 is shown attached to the said coaming and in connection with said bracket I show the dog 12 as adapted between the L shaped member 10 and the set screw 14 all adapted to cooperate as a clamp to exert pressure on the strip 6. The lower portion of the member 10 is formed with an opening 16 adapted to be passed over the bracket 11 and to be moved inward and downward on the inclined surface 17, in Fig. 2. The result is obvious, when one operates the set screw 14 to exert pressure upon the said dog 12, all other parts being in position as shown.

I show how one of the battens 7, in Fig. 1, is adapted to fit in under the L clamp 10 as at 8 and therein be retained in the aforementioned recess 15, in the member 10.

The result obtained is to securely fasten the hatchway in a closed condition, as against the ingress of moisture, and the liability for the canvas cover to become torn and destroyed, is therefore reduced to a minimum.

Having thus clearly shown in what my invention consists and in describing same in the preferred form so that those skilled in this art may make and use same, in addition I wish to further point out one of the important features of this invention, which is: A system of cross-wise battens adapted to the cover of a hatchway, to protect the division cracks thereof, together with a plurality of length-wise battens adapted to overlap said cross battens in such a manner as to cause the under surfaces of all of the said strips or battens to be flush and have an even bearing on the top of said canvas, together with a plurality of hatch fasteners so adapted as to rigidly hold the battens,

with a downward pressure thereon, so that they may not be washed adrift.

What I claim as new and wish to protect by Letters Patent is:

5 In a hatch fastener of the character described, the combination with the coaming of a hatch way, a cover and canvas over cover therefor, together with a system of
10 batten strips over said canvas; of a plurality of brackets 11, attached around about said coaming and equi-distant one from the other on said coaming, and members 10, slidably mounted upon said brackets; the lower extremity of said members 10, being
15 so formed as to offer inclined surfaces 16, to the under side of the brackets 11, respectively; dogs 12, and set screws 14, oper-

atively related to said brackets and cooperating in such a manner that, when the set screws are tightened up, the dogs 12, 20 cause the members 10, to be forced inwardly and by means of the incline 17 downwardly, thereby exerting pressure upon the batten strips of said hatch cover, all as fully shown and described. 25

In testimony whereof I have signed these specifications in the presence of two subscribing witnesses, this 21st day of October, A. D. 1908.

MATHEW MULHOLLAND.

Witnesses:

LEOTA M. GEMMILL,
JOHN J. HERIG.