M. MULHOLLAND.

HATCH FASTENER.

PLICATION FILED MAR. 31, 1914.

1,126,064. Patented Jan. 26, 1915.

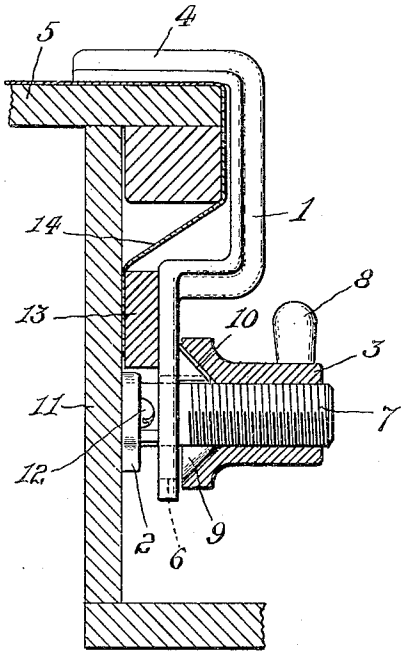


Fig. 2.

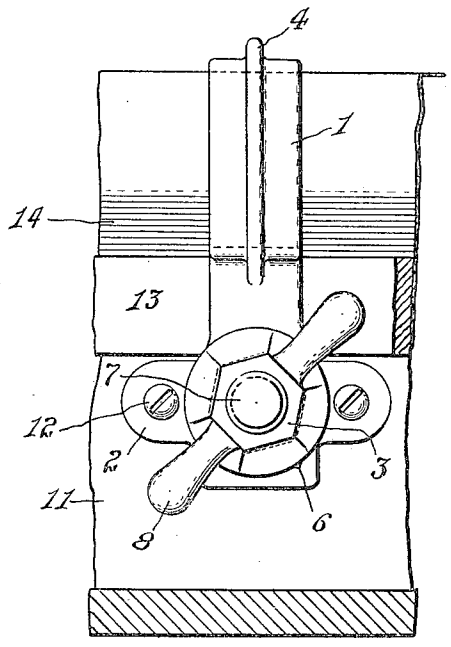


Fig. 1.

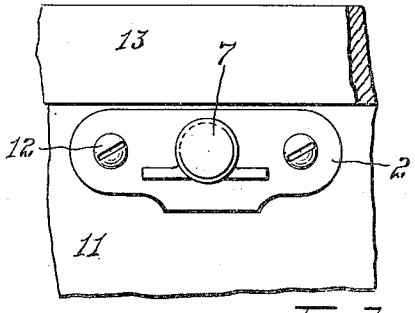


Fig. 3.

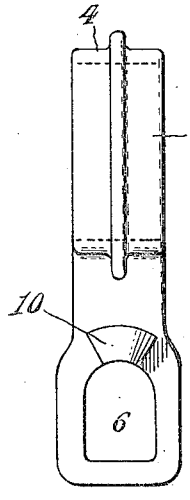


Fig. 4.

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

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HATCH-FASTENER.

1,126,064. Specification of Letters Patent. Patented Jan. 26, 1915.

Application filed March 31, 1914. Serial No. 828,581.

To all whom it may concern:

Be it known that I, MATHEW MULHOLLAND, a citizen of the United States, resident of Cleveland, county of Cuyahoga, and State of Ohio, have invented a new and useful Improvement in Hatch-Fasteners, of which the following is a specification, the principle of the invention being herein explained and the best mode in which I have contemplated applying that principle, so as to distinguish it from other inventions.

My invention relates to hatch-fasteners, its object being to provide a fastener which will be economical of manufacture and efficient in its use.

The said invention consists of means hereinafter fully described and particularly set forth in the claims.

The annexed drawing and the following description set forth in detail certain means embodying my invention, the disclosed means, however, constituting but one of various mechanical forms in which the principle of the invention may be applied.

In said annexed drawing: Figure 1 represents a front elevation of a hatch-fastener embodying my invention, showing a fragmentary portion of the deck, hatch coaming and hatch cover. Fig. 2 represents a vertical section of a fragmentary portion of the deck, hatch coaming and cover showing the said invention applied thereto, the fastening member of the hatch-fastener being shown in axial section. Fig. 3 represents a front elevation of the fragmentary portion of the coaming showing the bracket forming a part of the hatch-fastener, in elevation thereon. Fig. 4 represents a front elevation of the clamp-member of the fastener.

The illustrated embodiment of my invention comprises three members, clamp-member 1, bracket-member 2 and fastening member 3.

The clamp-member is provided with the usual extension 4 which is adapted to extend over the hatch cover 5 in the usual manner. The lower end of the clamp-member is provided with an opening 6 through which the front portion 7 of the bracket may extend. This front portion of the said bracket is threaded as shown. The fastening member 3 is formed with a central threaded bore and the said thread engages the thread of the portion 7 of the bracket 2. The outer end of the fastening member 3 is provided with handles 8 whereby the said member may readily rotate, and the inner end is flanged and formed with an interior conical surface 9. The clamp-member 1 is formed with an outwardly and downwardly inclined conical surface 10 having a degree of inclination the same as that of the surface 9. The said surface 10 is located in a position such that when the clamp-member 1 is loose, the rotation of the fastening member 3 will cause the surface 9 to engage the surface 10 and further rotation pull the clamp-member downwardly onto the hatch cover 5, thereby effecting the fastening operation.

The bracket 2 is secured to the coaming 11 in any suitable manner as for instance by means of screws 12. The clamp-member 1 is so formed that it may also secure between it and the coaming the batten-strip 13, this securing being effected when the fastening member 3 is screwed inwardly causing the clamp-member to move inwardly as well as downwardly, as will be readily understood. The batten-strip and upper end of the clamp-member secure the tarpaulin 14, as will be readily understood.

Having fully described my invention, what I claim and desire to secure by Letters Patent is:—

1. In a hatch-fastener, the combination of a clamp-member; a fixed bracket and a rotary member mounted upon said bracket, having its axis perpendicular to the adjacent hatch coaming and adapted to engage said clamp-member and effect movement thereof.

2. In a hatch-fastener, the combination of a clamp-member, a fixed bracket; a rotatory member mounted upon said bracket, having its axis perpendicular to the adjacent hatch coaming and movable inwardly toward the hatch coaming; said rotatory member being adapted to engage said clamp-member and move same downwardly during the inward movement of said rotatory member.

3. In a hatch-fastener, the combination of a clamp-member; a fixed bracket having a threaded portion; a fastening member having a threaded bore and engaging said threaded portion; said fastening member adapted to engage said clamp-member and move same downwardly when rotated on said threaded portion.

4. In a hatch-fastener, the combination of a clamp-member provided with an out-

wardly and downwardly inclined conical surface; a fixed bracket; and a rotatory member mounted upon said bracket and provided with an inclined surface adapted to engage the inclined surface of said bracket.

5. In a hatch-fastener, the combination of a clamp-member provided with an outwardly and downwardly inclined conical surface; a fixed bracket provided with a threaded portion; and a fastening member having a threaded bore and mounted upon said threaded bracket portion; said fastening member being provided with an interior conical surface adapted to engage the conical surface on said clamp-member.

Signed by me, this 30th day of March, 1914.

MATHEW MULHOLLAND.

Attested by—
HERMAN EISELE,
DOROTHEA PINDLING.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."