

No. 886,742.

PATENTED MAY 5, 1908.

F. A. TOMKINS.

DOOR BOLT.

APPLICATION FILED FEB. 25, 1907.

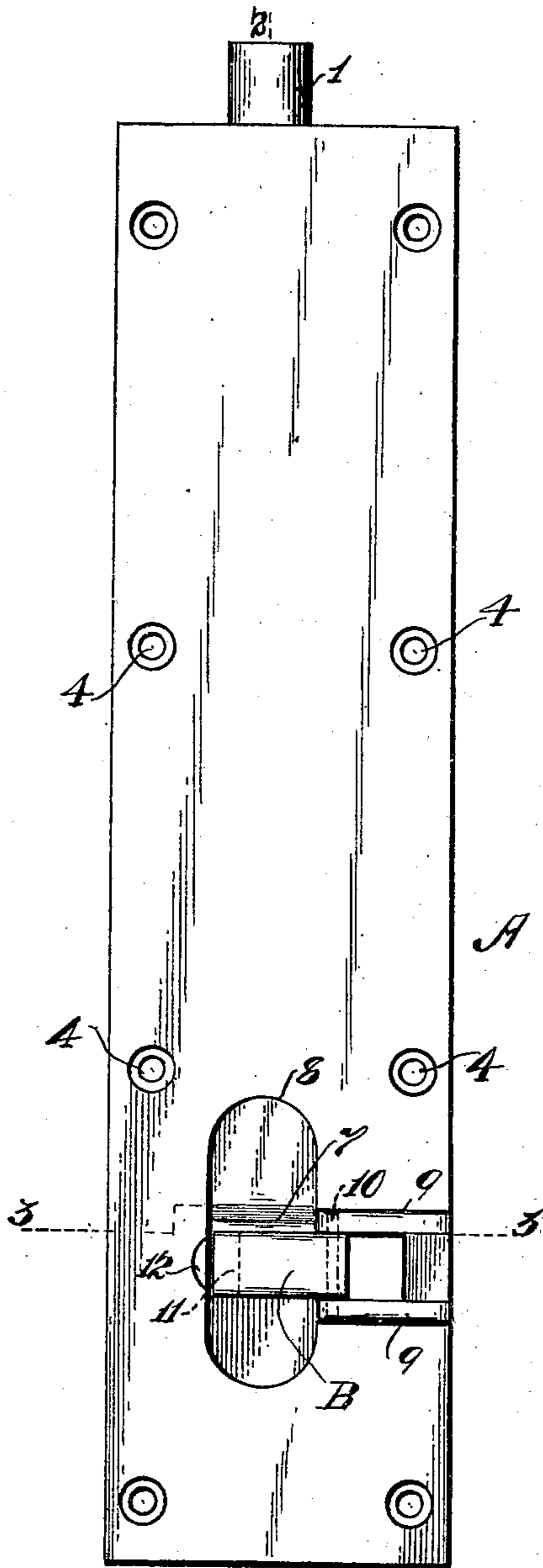


Fig. 1.

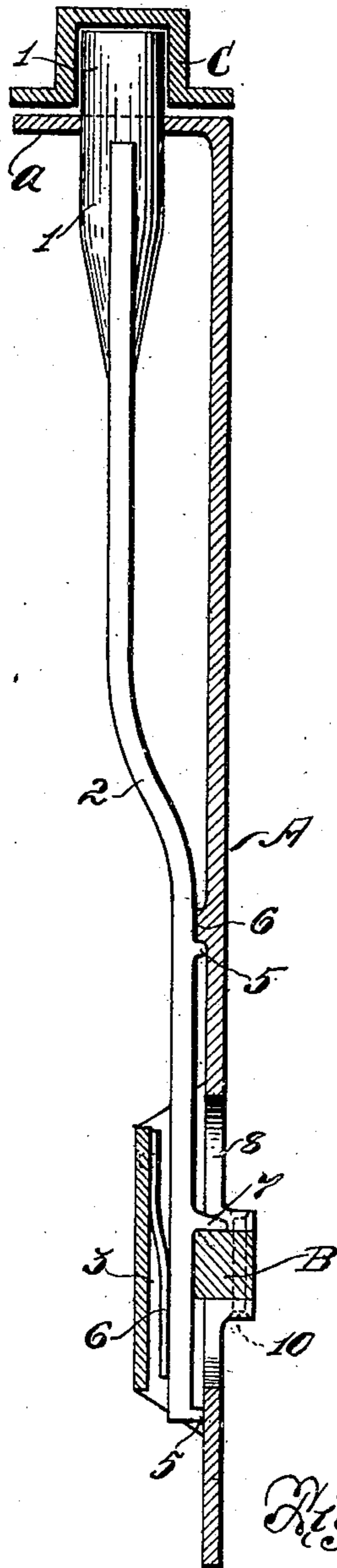


Fig. 2.

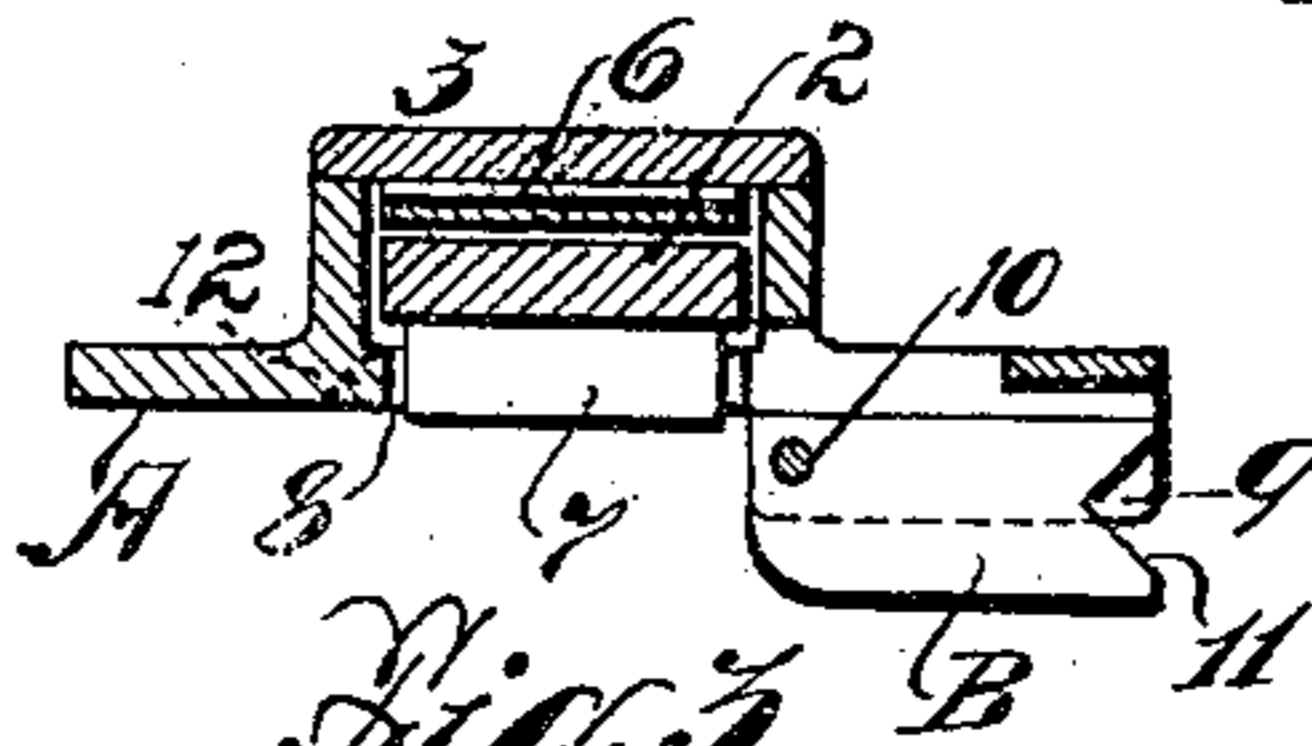


Fig. 3.

Witnesses:  
C. A. Jarvis  
C. L. How,

Inventor  
F. A. Tomkins

By Clayton D. ...  
Attorneys.

# UNITED STATES PATENT OFFICE.

FREDERICK ARTHUR TOMKINS, OF BROOKLYN, NEW YORK.

## DOOR-BOLT.

No. 886,742.

Specification of Letters Patent.

Patented May 5, 1908.

Application filed February 25, 1907. Serial No. 359,227.

*To all whom it may concern:*

Be it known that I, FREDERICK ARTHUR TOMKINS, a citizen of the United States, and resident of Brooklyn, county of Kings, and State of New York, have invented certain new and useful Improvements in Door-Bolts, of which the following is a specification, reference being had to the accompanying drawing, forming a part thereof, in which similar letters of reference indicate corresponding parts.

This invention relates to door bolts of the class especially adapted to be placed in vertical position with the bolt extended upwardly; the object of the invention being to provide a device of this character which is susceptible of being maintained in bolted or locked relative arrangement, in such a secure manner as to obviate liability of accidental displacement, by reason of vibration or jarring of the parts to which the bolt is attached; the device being especially applicable for use as a means for fastening doors on steam ships or similar vessels whose parts are subject to constant vibration.

The invention will be hereinafter fully described and specifically set forth in the annexed claims.

In the accompanying drawings forming part of this specification, Figure 1, is a face view of my improved door bolt; Fig. 2, a vertical sectional elevation taken on the line 2—2, of Fig. 1; and Fig. 3, is a sectional plan view taken on the line 3—3, of Fig. 1.

In the example of my invention as illustrated by the drawings, the bolt proper embodies the cylindrical extended part 1, and elongated plate 2; the latter named part being journaled through the guide or box 3, and the former through a laterally extended flange *a*, of the main plate A, which is adapted to be counter-sunk into and secured to a door by means of screws, which pass through the screw-holes 4.

On the plate 2, and bearing against the inner surface of the plate A, are cross-ribs 5, which bear against the plate A, to prevent frictional contact between the part 2, and said plate A, whereby the bolt may slide freely with a minimum of frictional contact; the back of the part 2, of the bolt contacting with a plate-spring 6, which is secured to the rear wall of the box 3. Thus the bolt may be freely moved back and forth, while at the same time it is maintained in perfect alinement. As a means for operating the

bolt a lug 7, is extended forwardly from the plate 2, and guided through a slot 8, in the plate A. The said lug 7, acts as a handle for operating the bolt, and also provides a shoulder for engagement over a swinging latch B, which is secured between upper and lower flanges 9, of the plate A, by means of the pivot 10. The said latch is provided with a groove 11, which is located adjacent to a recess 12, formed in that part of the plate A, adjacent to the slot 8, whereby a finger or thumb may be readily inserted to operate the latch.

In the operation and use of the device, when it is desired to lock the door to which it is attached, the bolt is shot into a locked position as shown in the drawings, the free or outer end of same engaging a socket, as C, Fig. 2, of the drawings, which is counter-sunk into the door frame in alinement with the cylindrical end of the bolt. Then the latch B, is swung into engagement with the lug 7, as shown in Fig. 1, of the drawings, which prevents the bolt from accidentally sliding back out of engagement with its socket through the medium of any jarring action or vibrations of the adjacent parts of the structure. To unbolt the door it is simply necessary to swing the latch B, into position shown by Fig. 3, of the drawings, which leaves the handle or lug 7, perfectly accessible.

I do not confine myself to the specific details of construction and formation of parts as herein shown and described, as I believe under the scope of my invention I am entitled to slight variations.

While I have illustrated my invention as especially applicable for vertical bolts on steam ships, I may use it in horizontal position also; further, it may be employed in connection with doors of buildings as well as floating vessels. The device would be especially applicable for use on doors in factory buildings where the employment of heavy machinery causes constant vibrations of the structure. The device also acts as a burglar-proof fastening for doors, as it can not be opened by shaking the door.

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

1. As a door fastener, the combination of a supporting plate having a guide for a bolt on one end thereof, a slot and a bearing box near the other end thereof, of a sliding bolt

having an extended lug and a latch hinged to flanges on said plate in a position transverse to said bolt and swinging at right angles thereto, and engaging said lug, substantially as shown and described.

2. As a door fastener, the combination of a supporting plate having a guide for a bolt on one end thereof, a slot and a bearing-box near the other end thereof, and a sliding bolt having a cross rib and lug, and a latch hinged to flanges integral with said plate in a position transverse to said bolt, swinging at right angles thereto, and engaging said lug, substantially as shown and described.

3. As a door fastener, the combination of a supporting plate having a bolt guide at one end thereof, a bearing box, a transverse slot,

a groove and a recess near the other end thereof, and a spring within said box engaging a bolt, of a sliding bolt engaged by said spring having an extended lug, and a latch hinged to parallel flanges on said plate in a position transverse to said bolt swinging at right angles thereto and engaging said lug, substantially as shown and described.

In testimony that, I claim the foregoing as my invention, I have signed my name in presence of two witnesses, this 18th day of February 1907.

FREDERICK ARTHUR TOMKINS.

Witnesses:

C. C. Dow,

LOUIS H. R. BRODIE.