

W. C. HURD.
Door-Bolt.

No. 161,684.

Patented April 6, 1875.

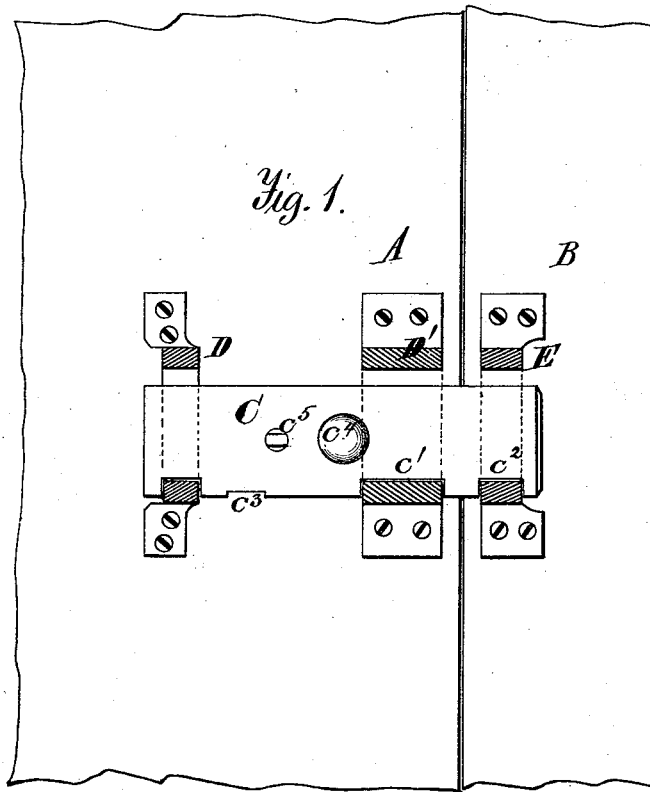
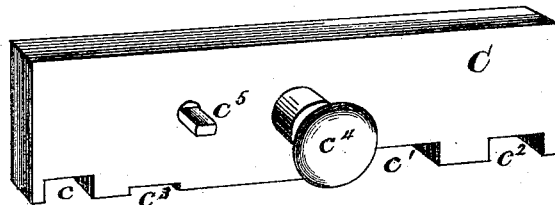


Fig. 2.



Witnesses.
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C. E. Co.

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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN DOOR-BOLTS.

Specification forming part of Letters Patent No. **161,684**, dated April 6, 1875; application filed March 13, 1875.

To all whom it may concern:

Be it known that I, WILLIAM C. HURD, of Watertown, in the county of Litchfield and State of Connecticut, have invented a certain Improvement in Door-Bolts, of which the following is a specification:

This invention relates to that class of door-bolts which become locked after they have been slid into the keeper, so as to render it very difficult to operate them by tools passed through the door, or between the jamb and the door, from the outside, for the purpose of surreptitiously unlocking the door.

My improvement consists of a gravitating sliding bolt, provided with notches in its lower edge, so disposed as to engage or hook over bars in both the keeper and the case or staples, which carry or support the bolt. Thus constructed and operating, the bolt requires to be lifted bodily its entire length to disengage it before it can be slid back to unlock the door, for lifting it at one end only will still leave the other end engaged to prevent sliding it. A further notch is provided for engaging a bar when the bolt has been withdrawn from the keeper, thus holding the bolt against accidental sliding in and out.

In the annexed drawings, Figure 1 is a sectional elevation of my improved door-bolt. Fig. 2 is a perspective view of the bolt detached from its supports.

The same letters of reference are used in both figures in the designation of identical parts.

The letters A and B refer, respectively, to a door and a jamb. In the present example, the bolt C is supported on the door by two in-

dependent staples or loops, D and D', but such loops may be connected by a plate, if preferred. The openings of the loops are of sufficient size to permit an easy play of the bolt, which consists of a flat bar of metal, having notches c^1 c^2 in its lower edge, corresponding in position to the loops D and D' and the keeper E, when the bolt has been projected to lock the door. In this position the bolt will drop and engage the loops and the keeper by means of the notches referred to, as shown in Fig. 1.

To unlock the door, the bolt must first be lifted bodily before it can be withdrawn, and this, it will be obvious, it is difficult to accomplish by tools from the outside of the door, whereas a person on the inside can do it with the utmost ease.

A knob, c^4 , is provided for lifting and sliding the bolt, and a stop-pin, c^5 , to arrest its inward movement. A fourth notch, c^3 , is made in its lower edge for engaging loop D, when the bolt has been entirely retracted.

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

The gravitating bolt C, having suitable notches in one edge, in combination with corresponding bars in both the keeper E and the supporting frame or loops D D', substantially as and for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM C. HURD.

Witnesses:

JOS. T. K. PLANT,
B. EDW. J. EILS.