

W. H. BIRGE.

Door-Bolt.

No. 162,017.

Patented April 13, 1875.

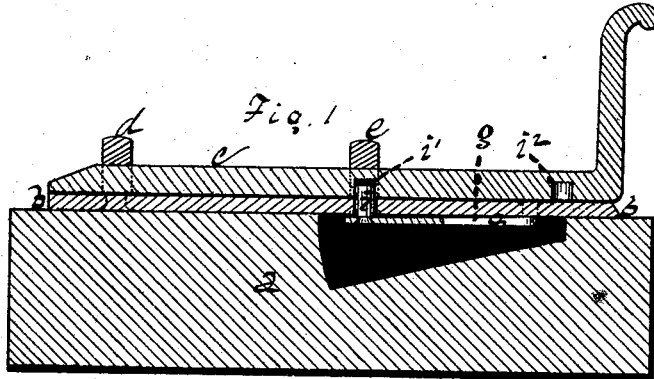
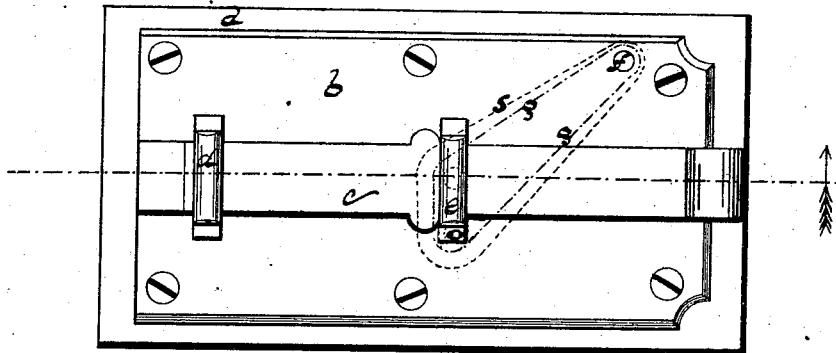


Fig. 2



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM H. BIRGE, OF HARTFORD, CONNECTICUT.

IMPROVEMENT IN DOOR-BOLTS.

Specification forming part of Letters Patent No. **162,017**, dated April 13, 1875; application filed December 7, 1874.

To all whom it may concern:

Be it known that I, WILLIAM H. BIRGE, of Hartford, Hartford County, Connecticut, have invented an Improved Door-Bolt, of which the following is a specification, reference being had to the accompanying drawings, where—

Figure 1 is a view of the same in longitudinal section. Fig. 2 is an outer or flat view of the same.

This invention consists in a bolt which may be locked in its positions of adjustment, the locking parts being concealed from view and operated by a presser-pin, which, apparently, forms a portion of another part of the device. The letter *a* denotes the wood upon which the bolt is set; *b*, the metallic base-plate of the bolt; *c*, the bolt itself, sliding in clamp-guides *d* and *e*. To the under or back side of plate *b* is attached, by rivet *f* or the like, a concealed spring, *g*, denoted by dotted line in Fig. 2. This spring bears the stud or spur *i* projecting through corresponding orifice in plate *b*, and bearing against the under side of bolt *c*.

When the bolt is drawn back to unlock the door, as shown in Figs. 1 and 2, the spur *i* snaps into mortise *i*¹ and holds the bolt unlocked. When the bolt is pushed forward to lock the door, the spur *i* snaps into the mortise *i*² and holds the bolt locked. The bolt is unlocked—that is, released from grasp of spur *i*—by pressing down upon the presser-pin *o*, which comes up at one side of clamp-guide *e*, and, apparently forms a part thereof. The wooden part *a* is appropriately mortised to permit the play of the concealed spring, as shown in Fig. 1, and by dotted line *s* in Fig 2.

I claim as my invention—

The combination of the plate *b*, guides *d e*, and bolt *c*, locked in position by the concealed spring *g*, bearing the spur *i*, and operated by the presser-pin *o*, all substantially as shown and described.

WILLIAM H. BIRGE.

Witnesses:

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