(No Model.)

J. N. SPENCER & T. H. DUNN.

BOLT.

No. 284,253. Patented Sept. 4, 1883.

Fig. 2.

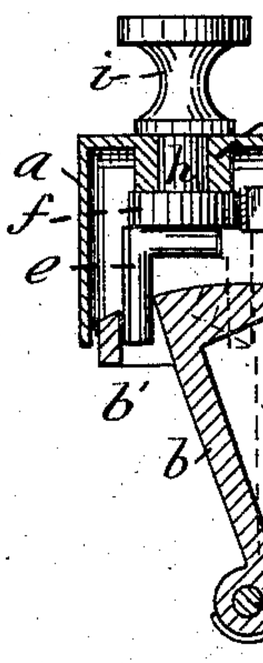


Fig. 1

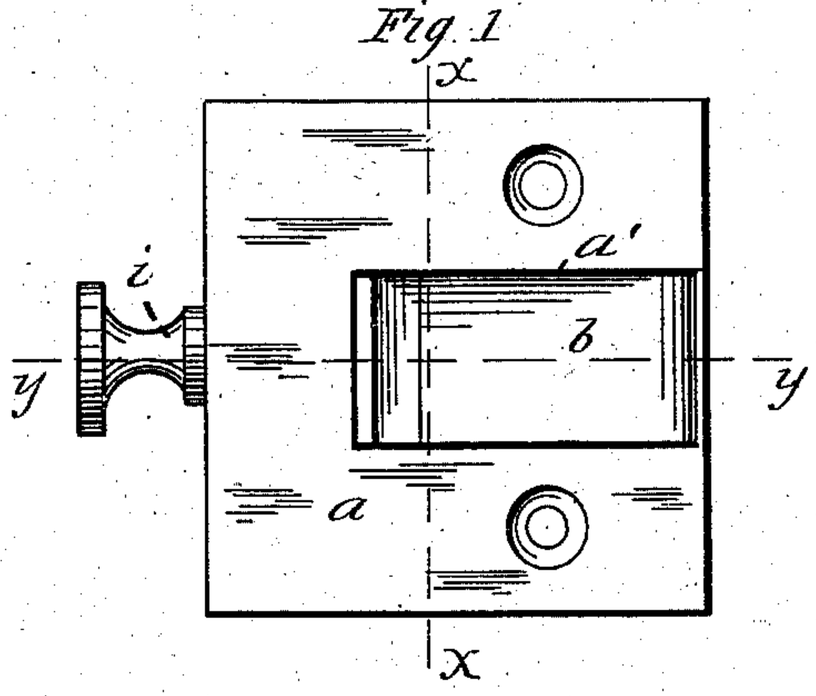


Fig. 3.

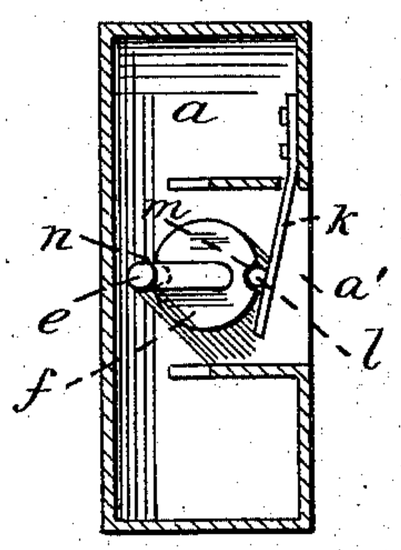
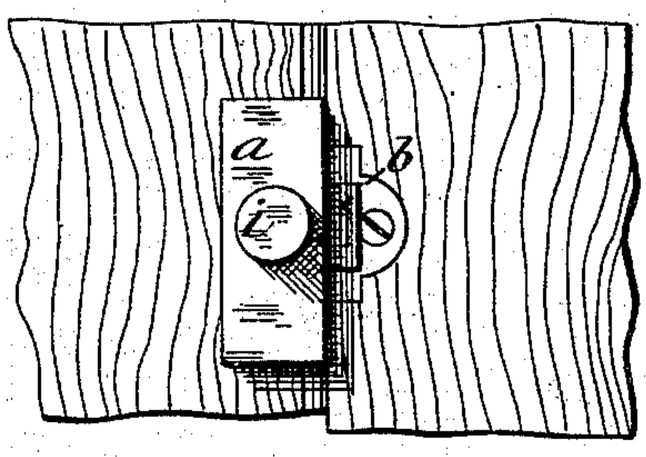


Fig. 4.



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UNITED STATES PATENT OFFICE.

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BOLT.

SPECIFICATION forming part of Letters Patent No. 284,253, dated September 4, 1883.

Application filed April 4, 1882. (No model.)

To all whom it may concern:

Be it known that we, JOSEPH N. SPENCER and THOMAS H. DUNN, of South Manchester, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Door-Bolts, of which the following is a description, reference being had to the accompanying drawings, where—

Figure 1 is a face view of the device. Fig. 2 is a view in cross-section on plane denoted by line *y y*. Fig. 3 is a view in section on plane denoted by line *x x*, the bolt being removed. Fig. 4 is a view of the device as applied to a door frame or jamb.

Our invention relates to the class of devices used for fastening doors upon the inside; and it consists of an improved form of bolt and means for operating the same.

In the accompanying drawings, the letter *a* denotes a metallic case, (formed to cover all or only part of the operating parts, as shown,) provided with holes for screws, and perforated, as at *a'*, for the passage of the vibratory bolt *b*. The bolt is T-shaped, pivoted to the case by pivot *c*, and having in one arm a mortise, *b'*, into which takes the crank-arm *e*, fast to the rotary disk *f*. In the socket *g* in the case revolves a shaft, *h*, secured to the disk *f*, and bearing on its outer end the shouldered thumb-piece or handle *i*. On one side of the case is secured a leaf-spring, *k*, adapted to press against the disk *f*, and bearing fast to one side of it a catch, *l*, which takes into the notches *m* or *n*, arranged in the periphery of the disk *f* at points which enable the spring and catch to hold the crank-arm in line with the center of the disk (by preventing accidental rotation of the latter) when the bolt is at either limit of its play. The sides of the notches and the catch are made rounding, so that while the disk may be turned by a slight force applied to the handle the hold of the catch is sufficient to prevent the jarring forward of the bolt, or its being thrown back by pressure against the door to which the device is applied. A stiff spring would perform this office by friction, but not so efficiently as the spring and catch.

The case and operating parts are preferably formed of metal—as iron, steel, or brass—in the usual manner.

In using our device the case is secured to the inner edge and transversely of a door-jamb, with the bolt horizontal and arranged to swing over the edge of the door when closed, which edge may be protected by a face-plate, as shown in Fig. 4. The locking-arm of the bolt has its holding-face at about right angles to the main stem, and as the bolt is swung forward this face tends to draw the door into its seat, and can thus be used to prevent rattling of doors, and in a modified form is also applicable to windows and the like.

We claim as our invention—

In a door-fastener, in combination, case *a*, vibratory bolt *b*, having mortise *b'*, rotary disk *f*, with notches *m n* and bearing crank *e*, spring *k*, bearing catch *l*, and handle for rotating the disk, all substantially as described.

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