E. H. Kent,

Lock Trimming.

No. 108361. Patented Oct. 18. 1870

Fig. 1

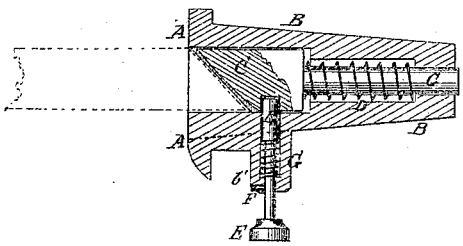
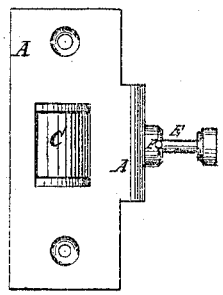


Fig. 2



Witnesses.
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EDWARD H. KENT, OF NEW YORK, N. Y.

Letters Patent No. 108,361, dated October 18, 1870.

IMPROVEMENT IN GUARD-BOLTS FOR LATCHES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, EDWARD H. KENT, of the city, county, and State of New York, have invented a new and useful Improvement in Guard-Bolt; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a detail sectional view of my improved guard-bolt as attached to an ordinary spring-bolt catch.

Figure 2 is a face view of the same.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved gaurd-bolt designed to be used, in connection with an ordinary spring-bolt, to guard the door from being opened by any one from the outside of the door who might have succeeded in forcing back the catch-bolt; and

It consists in the combination of the locking-pin, socket, bolt, and spring, with the ordinary strike or keeper of a spring-bolt, as hereinafter more fully described.

A represents the strike or keeper of an ordinary spring-bolt or latch, upon the inner side of which is cast a socket, B, which is to be let into a recess formed for its reception in the door-casing.

C is a bolt placed in the socket B.

The forward end of the bolt C is beveled off in the same manner as the forward end of an ordinary latch-bolt; but upon its outer angle, so that when the door is closed, the bevel of the latch-bolt may correspond with the bevel of the guard-bolt C, the two beveled ends thus corresponding with and overlapping each other, as indicated in fig. 1.

The inner end of the bolt C is made small to receive the coiled-wire spring D, one end of which rests against, and may be secured to the shoulder formed upon the said bolt C, and the other end of which rests against, and may be secured to the bottom of the socket B, which is perforated to allow the inner end of the bolt C to pass through, when the said bolt is pushed back, into the said socket.

The spring D should be made so weak that the spring of the latch-bolt, when the door is shut, may both force out said latch-bolt, and also compress the spring D and force the guard-bolt C into the socket B. At the same time the spring D should have sufficient strength to carry the guard-bolt C out promptly when the latch-bolt is withdrawn, so that the two bolts may move out together, and with their beveled ends overlapped.

By this construction should any one, in trying to open the door from the outside, succeed in forcing back the latch-bolt, the guard-bolt C will move out, and, as the said latch-bolt leaves the mortise of the keeper A, the beveled end of the guard-bolt C will enter the mortise of the lock, so that it will be impossible to open the door.

E is a pin passing in through a hole in the side of the socket B, and entering a hole in the bolt C.

Upon the outer end of the pin E is formed a small knob for convenience in operating it, and upon its side is formed, or to it is attached, a small projection or pin, F, which, when the pin E is pushed in to hold the bolt C from operating, enters a slot in the side of the socket in which the pin E works, and which, when the pin E is drawn out to allow the bolt C to operate, rests against the edge of the said socket or hole.

The pin E is also provided with a coiled or other spring, G, by the action of which it is held in place when holding the bolt C in place in the said socket B.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

The combination of the locking pin E F and spring G with the guard-bolt B C D, and keeper A, substantially as herein shown and described, and for the purpose set forth.

The above specification of my invention signed by me this 2d day of August, 1870.

EDWARD H. KENT.

Witnesses:

JAMES T. GRAHAM,

T. B. MOSHER.