

(No Model.)

G. B. M. FOUST.

LOCK.

No. 383,638.

Patented May 29, 1888.

Fig. 1.

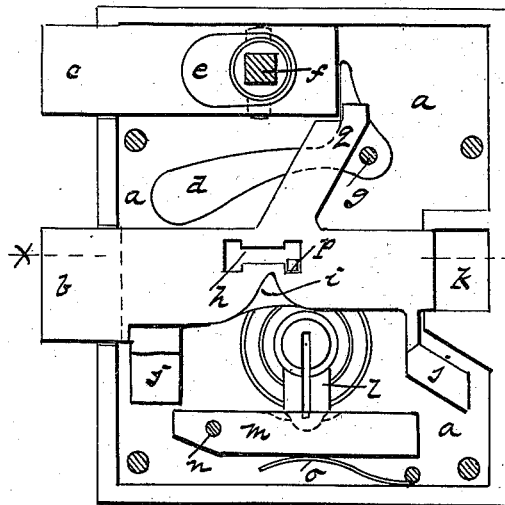


Fig. 3.

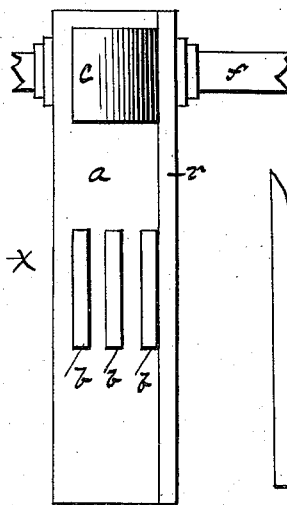


Fig. 6.



Fig. 2-

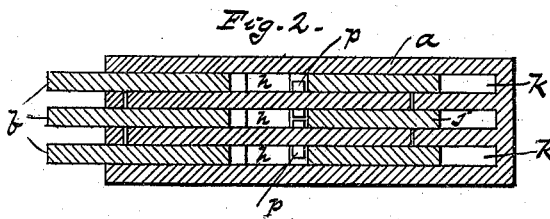


Fig. 4.

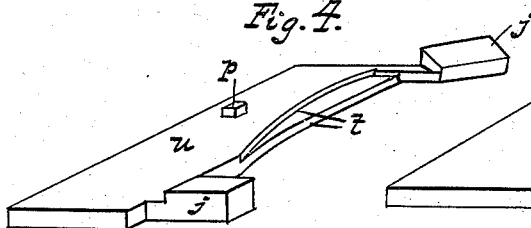
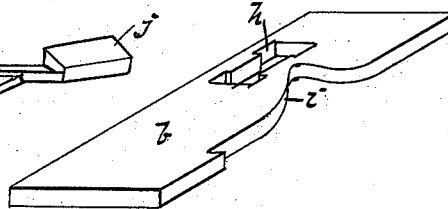


Fig. 5.



Witnesses:

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LOCK.

SPECIFICATION forming part of Letters Patent No. 383,638, dated May 29, 1888.

Application filed November 25, 1887. Serial No. 256,151. (No model.)

To all whom it may concern:

Be it known that I, GEORGE B. M. FOUST, a citizen of the United States, residing at Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Locks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

The object of my invention is to provide a lock possessing increased durability, simplicity of construction, and a less number of parts than heretofore in use, and having three separate and independent bolts.

To this end my invention consists in the construction and combination of parts, hereinafter particularly set forth and described.

In the accompanying drawings, Figure 1 is a side elevation of my improved lock having the top or cap removed therefrom, the better to show the inner working parts. Fig. 2 is a sectional plan view taken on the line *xx*, Fig. 1. Fig. 3 is an end elevation showing the position of the three bolts. Fig. 4 is a perspective view of one of the intervening tumblers, which occupy a position between the bolts. Fig. 5 is a perspective view of one of the bolts. Fig. 6 is a side view of the key used for operating the lock.

To put my invention into practice, I provide a frame, *a*, of suitable size and form of construction, having formed in its front edge three openings, in which three separate and independent bolts, *b*, are made to operate. Each of these bolts *b* is provided with properly-constructed wards *i*, and an open slot, *h*, operating over a small projection, *p*, formed on tumblers *u*, placed between the bolts *b*. These tumblers *u* are also provided with suitable wards, *t*, and at each end a weight, *j*, is secured, in order to return the said tumblers *u* to their proper position after the key *s* has been turned. Below the keyway, which passes through a revolving block, *l*, is a piece, *m*, capable of moving vertically on its pivotal

point *n* by the action of the key *s* and a flat spring, *o*, placed below the piece *m*. This piece *m* serves to lock the revolving keyway *l* in a vertical position after the key *s* has been removed from the lock. Above these bolts *b* is secured the latch-bolt *c*, which differs in no essential feature from those now in common use, except that I prefer using a weight, *d*, in place of a spring. This bolt *c*, by means of an upwardly-projecting piece, *q*, from one of the bolts *b*, is securely locked at the same time that the bolts are projected, and only when the three bolts *b* are extended into the keeper of the lock, as will be seen by reference to Fig. 1 on the drawings.

In operation the key *s* is inserted into the revolving keyway *l*, which can easily be released from the piece *m* by revolving the key *s*. When the wards of the key strike the tumblers *u*, the same are slightly elevated, which brings the projections *p* in a direct line with the slots *h*, formed in the bolts *b*, which are moved forward by the key *s* operating in the wards *i*. The weights *j*, attached to the tumblers *u*, at the proper time lower the same, the projections *p* entering a recess in the forward end of the slot *h*, which will prevent the bolts from being moved back by pressure from the ends of the same.

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

In a lock such as described, the combination of the three bolts *b*, having each an opening, *h*, formed therein, the tumblers *u*, arranged between the bolts *b*, provided on their lower edge with suitable wards, *t*, with the revolving key-barrel *l*, and locking-piece *m*, actuated by a spring, *o*, the weights *j*, attached to the tumblers *u*, the extension or projection *q* of one of the bolts *b*, for locking the latch *c*, and the weight *d*, substantially as and for the purpose set forth.

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Witnesses:

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