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H. S. BRICKELL.

SAFETY DEVICE FOR DOORS AND LOCKS.

APPLICATION FILED JAN. 15, 1906.

Fig. 1.

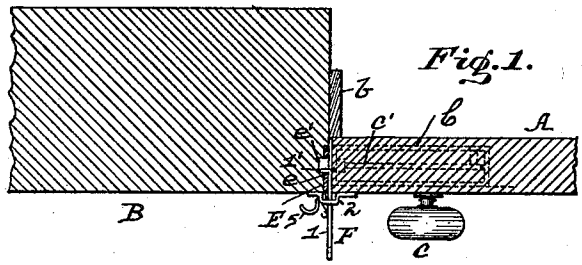


Fig. 2.

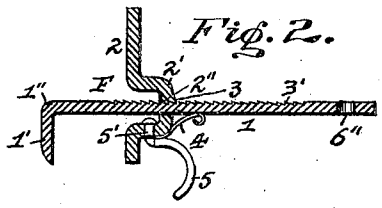


Fig. 3.

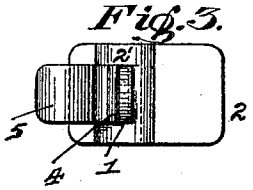


Fig. 4.

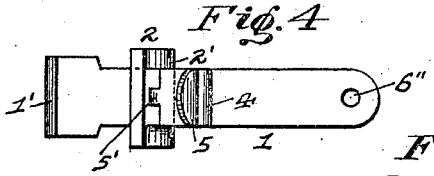


Fig. 6.

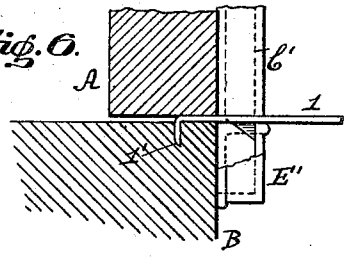
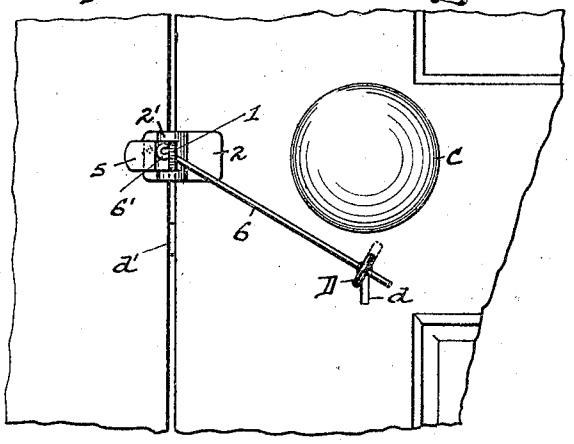


Fig. 5.



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SAFETY DEVICE FOR DOORS AND LOCKS.

No. 820,696. Specification of Letters Patent. Patented May 15, 1906.

Application filed January 15, 1906. Serial No. 296,032.

To all whom it may concern:

Be it known that I, HARRY S. BRICKELL, a resident of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Safety Devices for Doors and Locks; and I do hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to safety devices for doors and locks.

The object of my invention is to provide a cheap, simple, and efficient device for attaching to doors which will not only hold the door intact and in place in any tampering with the same or with the lock thereof, but will also hold said door in place and prevent the bolt of the lock from being interfered with or from being turned back in any such tampering with said door or lock.

A further object of my invention is to provide a further attachment on the device which will prevent the key of the lock from being turned.

My invention consists, generally stated, in the novel arrangement, construction, and combination of parts, as hereinafter more specifically set forth and described, and particularly pointed out in the claims.

To enable others skilled in the art to which my invention appertains to construct and use my improved safety device for doors and locks, I will describe the same more fully, referring to the accompanying drawings, in which—

Figure 1 is a cross-section of a door and frame, showing my invention applied thereto. Fig. 2 is a longitudinal section of the device. Fig. 3 is an enlarged front elevation of the clamping-plate and bar. Fig. 4 is a side elevation of the clamping-plate and bar. Fig. 5 is a side elevation of a portion of the door and frame, showing the device for holding the key from turning. Fig. 6 is a detail view showing another manner of attaching the bar to the frame.

Like symbols of reference herein indicate like parts in each of the figures of the drawings.

As illustrated in the drawings, A represents the usual or ordinary door, which is secured at one side (not shown) to the usual door-frame B and when in its closed position rests against the jamb *b* on said frame. Within the door A and at one side thereof is the usual lock C, which is provided with the knob *c* for operating the holding-bolt *c'* and with the key D, which fits within the keyhole *d* for operating the locking-bolt *d'*, as in ordinary cases. A keeper E is secured in the usual manner within the door-frame B, and such keeper is provided with the usual opening *e* through the same to admit the bolt *c'* into the same and into the space or chamber *e'*, formed in frame B in the rear of said keeper.

The safety device F is formed generally of a bar 1 and clamping-piece 2, and such bar is formed of a thin flat piece of metal, so that it can fit between the door A and frame B at its inner end portion, which is provided with the lug or projection 1', extending or bent out at right angles from the end thereof and fitting within the opening *e* of the keeper E and within the chamber *e'* in the rear of said keeper. The outer end portion of the bar 1 extends beyond the face of the door A for the reception of the clamping-piece 2, which is of substantially a U shape to form a raised portion 2' to fit around and inclose the outer end or protruding portion of the keeper E. Such plate is formed from a thin flat piece of metal, so that said raised portion can be bent therein. An opening 2'' is formed in the end of the raised or reinforced portion 2' of said clamping-piece 2 for fitting over and around the bar 1 to hold the clamping-piece 2 in place and to permit said piece to slide along said bar, while tooth 3 is formed in said piece and on one side of said opening to engage with the ratchet-face 3', formed on the side of said bar. A leaf-spring 4 is secured at one end to the one side of the reinforced portion 2' of said clamping-piece 2, and its opposite end bears against the opposite side of the bar 1 from the ratchet-face 3'. A hook or finger-piece 5 is carried by the clamping-piece 2 and acts to secure the spring 4 thereto by means of a bolt or rivet 5' thereon, which passes through the side of the reinforced portion 2' on said piece.

The use and operation of my improved safety device for doors and locks is as follows: The end portion of the bar 1 containing the lug 1' is placed along the frame B and the said lug within the opening *e* of the keeper E and within the chamber *e'*, and after this is done the door A can be closed to position within the frame B and against the jamb *b* and bar 1, which will allow the bolt *c'* to rest against said bar and within a seat or recess 1'', formed in said bar. The clamping-piece 2 can now be placed upon the bar 1 by inserting the outer end of the said bar within the opening

2″ of the said piece, when said piece can be slid along said bar to position against the face of the door A and frame B, while the tooth 3 on said piece will be held in engagement with the ratchet-face 3′ on the bar 1 by the spring 4. When it is desired to remove the safety device F from the door A and frame B, all that is necessary is to grasp the finger-piece 5 and by pulling out on the same will cause the spring 4 to become slightly relieved of its compression, so that the tooth 3 on the clamping-piece 2 will be disengaged sufficiently from the ratchet-face 3′ on the bar 1, and so allow the piece 2 to be slid along and off the bar 1. When this is accomplished, the door A can be opened and the bar 1 grasped to remove said bar from the frame B through the lifting of the lug 1′ on said bar from the chamber *c*′ and opening *c* in the keeper E. When my improved safety device for doors and locks is in use and it is desired to prevent the turning or removal of the key D in the unlocking of the bolt *d*′, a rod 6 can be employed and be provided with a hooked end 6′ for being passed through a hole 6″ in the end of the bar 1 to hold the same, while the opposite end thereof can be passed through the hole or opening in the key D, as shown in Fig. 5. It will be evident that in some cases the lug 1′ on the bar 1 can be driven into the frame B, as where a keeper is not employed within the frame, such as is shown in Fig. 6, in which case the lock C′ and keeper E′ can be placed upon the face of the door and frame, respectively, so that the bar 1 can extend out from and between them.

It will thus be seen that my improved safety device for doors and locks contains few parts, which are strong and durable when in use and are not liable to get out of order. They can easily and rapidly be stamped from sheet metal by any suitable means in any desired manner. The device can be rapidly and easily connected to and removed from a door and frame and when in use will be firmly and solidly set in position, so as to hold the door securely in place and prevent the locking-bolt from being tampered with or sawed, thereby rendering the same completely burglar-proof at all times. The device can be used on any form of door and at either side of the same without the addition of any parts to the door or frame.

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

1. The combination with a door and frame, of a bar secured within and extending out from between said door and frame, a ratchet-face on one side of said bar, a clamping-plate fitting over and around said bar through an opening in said plate, a tooth on said plate for engaging with said ratchet-face to clamp said plate against the door and jamb of the frame and hold said door in place within said frame, and a spring carried by said plate and engaging with the side of said bar opposite the ratchet-face thereon to hold said tooth in engagement with said ratchet-face and to permit the releasing of the same.

2. The combination with a door and frame, a lock, a bar secured within and extending out from between said door and frame, said bar having an opening in its end, means on said bar for engaging with the same and with said door and jamb of said frame to hold said door in place within said frame, and a rod attached to the opening in said bar and to the key of the lock for fastening said key.

In testimony whereof I, the said HARRY S. BRICKELL, have hereunto set my hand.

HARRY S. BRICKELL.

Witnesses:

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R. H. AXTHELM.