No. 698,326. Patented Apr. 22, 1902.

B. SCHWAB.

BAR OR FASTENER FOR DOORS.

(Application filed Dec. 21, 1901.)

(No Model.)

Fig. 1.

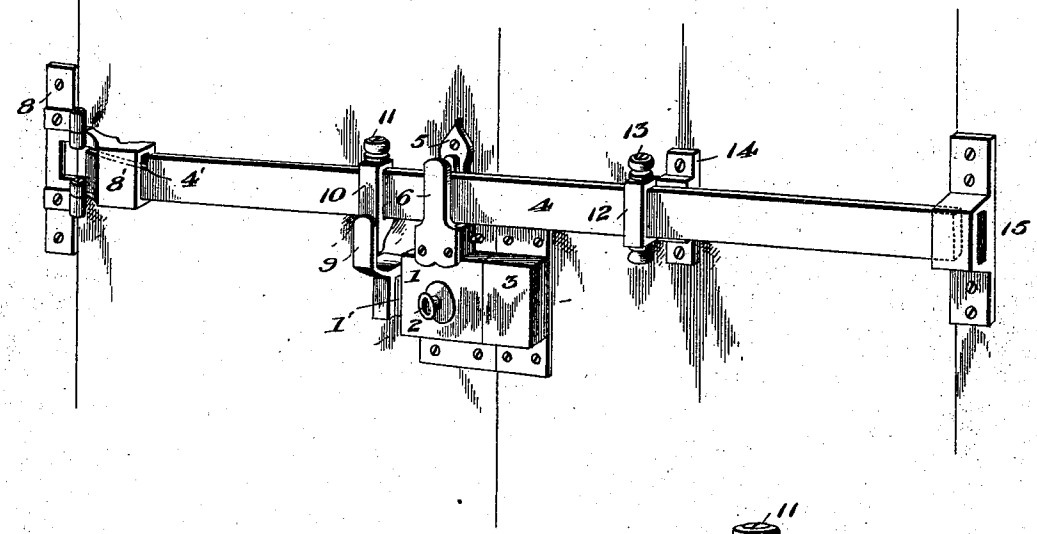


Fig. 3.

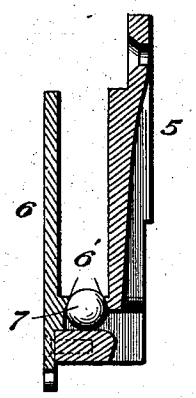
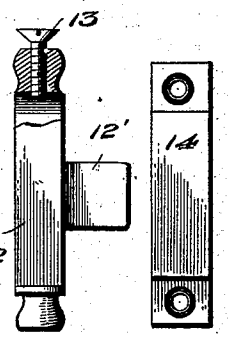


Fig. 2.

Fig. 4.



Witnesses:

Jos. T. Peake

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UNITED STATES PATENT OFFICE.

BENJAMIN SCHWAB, OF NOGALES, MEXICO.

BAR OR FASTENER FOR DOORS.

SPECIFICATION forming part of Letters Patent No. 698,326, dated April 22, 1902.

Application filed December 21, 1901. Serial No. 86,771. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN SCHWAB, a citizen of the United States, residing at Nogales, State of Sonora, Mexico, have invented certain new and useful Improvements in Bars or Fasteners for Doors, of which the following is a specification.

My invention relates to bars or fasteners for doors; and the objects of the same are to provide a strong, durable, and practically impenetrable barrier for doors which may be operated from the inside by a knob and from the outside by a key and which may be locked in such a way upon the inside that the key will not slide the bar or bolt to permit the door to be opened. Ordinary bolts, bars, or locks furnish but little protection against heavy shocks, blows, or against prying from the outside. My invention serves as a secure barrier against successful attempts to enter the door, even if a key be used, provided the inmates of the house desire to lock the bar from sliding.

My device may be used with either single or double doors of any width and which swing to the right or left.

I attain the objects referred to by means of the construction illustrated in the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of a door-fastener embodying my invention. Fig. 2 is a perspective view of a lock and certain attachments thereto which I use in connection with my door-fastener. Fig. 3 is a central vertical section through a ball-bearing guide adapted to be secured to the lock. Fig. 4 is a side view and partial section of a guide loop and keeper, to be hereinafter referred to.

Like numerals designate like parts wherever they occur in the different views of the drawings.

The numeral 1 designates a lock of ordinary or any suitable construction provided with a sliding bolt 1′, which may be moved to the right or left by the knob 2 or by the key 3′, inserted within the tube 2′, said tube designed to be passed through the door and forming a flush keyhole on the outside of said door. The keeper 3 for the bolt 1′ is secured to the door-frame or to one of the doors if my device is to be used with double doors. A strong metal bar 4 is mounted to slide to the right or left with the bolt 1′. A ball-bearing guide comprising the two parts 5 6 is secured to the door immediately above the lock 1, a raceway 6′ being formed between the parts 5 6 for the ball 7, a plurality of which balls may be utilized, if found desirable. At one end of the bar 4 a notch 4′ is formed, for a purpose which will be hereinafter referred to. The bar 4 is supported at one end in a combined keeper and hinge 8 8′, the member 8 of which is securely fastened to the door-frame. Secured to the bolt 1′ is a bracket 9, provided with an integral lug 9′, and a loop or guide 10 is bifurcated at its lower end to straddle the lug 9′, as will be seen in Fig. 2. A set-screw 11 passes through the upper end of the loop 10 and is adapted to bear against the upper edge of the bar 4 to secure the bar to the loop and to insure the movement of said bar when the bolt 1′ is moved in either direction. A loop or guide 12, provided with an integral lug 12′, Fig. 4, designed to fit and slide in the keeper 14, has a set-screw 13 passed through its upper end and adapted to bear against the upper edge of the bar 4 to move with said bar when it is desired to permit the bar 4 to be operated by the key 3′. A keeper 15 is secured to the door-frame opposite the hinge 8 to engage the free end of the bar 4.

The operation of my invention is as follows: Whenever it is desired to bar the door in such a manner that it may be unlocked by the key 3′, the set-screw 11 is turned down to bear with sufficient force against the bar 4 to insure the movement of the bar with the loop 10 and the bolt 1′. If it is desired to secure the door against the operation of the bar 4 by the key 3′, the set-screw 13 is turned down sufficiently to throw the shoulder of the notch 4′ up to engage the upper wall of the keeper 8′, the bar 4 being fulcrumed upon the ball 7 to rock sufficiently for this purpose.

From the foregoing it will be observed that my door-fastener furnishes a very secure barrier against intruders, that the device may be applied to doors of any width, and that the device is of comparatively simple construction and may be produced at small cost.

It will be understood that a combination-lock may be used instead of the lock and key shown in the drawings.

When the bar 4 has been unlocked, it can be readily removed and set aside until it is necessary to use it again, when it may be instantly replaced for operation.

Having thus described my invention, what I claim is—

1. A barrier for doors comprising a lock, a bar connected to the bolt of said lock to be moved therewith, and a ball-bearing guide for said bar, substantially as described.

2. A bar for doors consisting of a lock, a bracket attached to the bolt of said lock, a barrier connected to said bracket to be moved with the bolt, one end of said barrier engaging a hinged keeper, substantially as described.

3. A bar for doors comprising a lock, a barrier connected to the bolt of said lock, to be moved therewith, a ball-bearing guide for the barrier, and means for locking the barrier against movement with the bolt of the lock.

4. A bar for doors comprising a lock having a bolt to be operated by a knob or a key upon opposite sides of the lock, a barrier connected to said bolt, a ball-bearing guide for said barrier, and loops surrounding the barrier and provided with set-screws, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

BENJAMIN SCHWAB.

Witnesses:
A. D. SHREWSBURY,
S. F. NOON.