No. 645,914. Patented Mar. 20, 1900.

J. W. DOTSON.

DOOR FASTENER.

(Application filed Aug. 14, 1899.)

(No Model.)

Fig. 1.

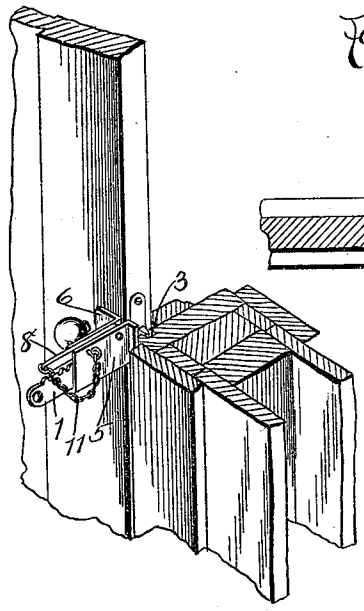


Fig. 2.

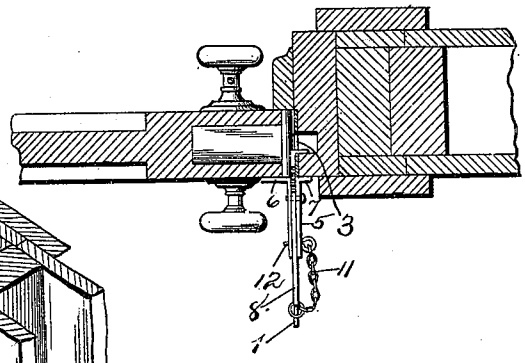


Fig. 3.

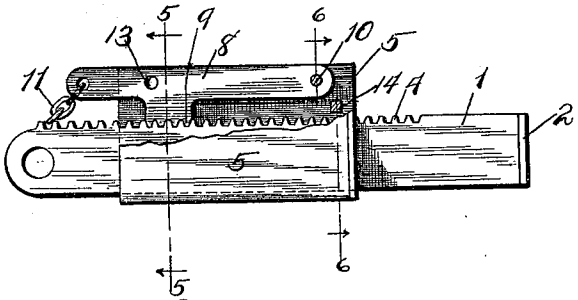


Fig. 4.

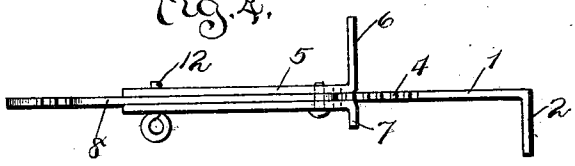


Fig. 5.

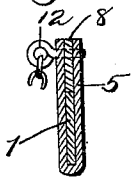
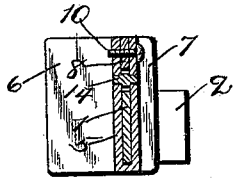


Fig. 6.



Witnesses:
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UNITED STATES PATENT OFFICE.

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DOOR-FASTENER.

SPECIFICATION forming part of Letters Patent No. 645,914, dated March 20, 1900.

Application filed August 14, 1899. Serial No. 727,240. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. DOTSON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Door-Fasteners; 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 appertains to make and use the same.

This invention relates to improvements in door-fasteners, and has for its object to provide a simple, practical, and efficient device by means of which a room-door may be secured against unwonted intrusion from without and which is made portable and adapted to be conveniently carried about the person when journeying from home and is adapted to be used for additional security in connection with the usual lock-and-key appliances with which doors are generally provided.

The invention consists in the novel features of construction, combination, and arrangement of parts hereinafter described and set forth, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view showing the fastener device attached to a door and jamb in position to hold the door closed. Fig. 2 is a transverse section of a door and jamb, showing one mode of attaching the fastener to the jamb and more clearly illustrating the operation of securing the door. Fig. 3 is a side elevation of the fastener device with a portion of the slide broken away, showing the slide dog-bar in a closed or holding position. Fig. 4 is an edge or plan view of the device; Fig. 5, a section of the fastener, taken on the line 5 5 of Fig. 5; and Fig. 6, a section taken on the line 6 6 of Fig. 5.

Referring to the drawings, 1 designates the holding-bar, made from a thin steel bar or plate and adapted to be inserted between the edge of the door and face of the jamb. One end of said holding-bar is provided with a hook or flange 2, formed by bending the end of the bar to a right angle thereto, as shown. Said hook is adapted to be inserted into the usual slot opening or recess 3 of the door-jamb designed for the lock-bolt when the door is locked. Said holding-bar is serrated or provided with teeth 4 upon one edge for a portion of its length.

5 is a slide fitted to slide upon said holding-bar. Said slide is made from a blank of sheet metal, the body of which is bent and formed approximately U-shaped and is adapted to be adjusted on said holding-bar to the thickness of door to be fastened. Said slide is provided at one end with flanges upon either side, projecting outward at right angles therefrom, the longer one of which, 6, is adapted to press against the door to prevent its being opened and the shorter one, 7, to rest against the edge of the jamb to resist the lateral strain upon the fastener when the door is pressed against it. The edges and sides of said slide when in position upon the holding-bar extend some distance above the toothed edge of said holding-bar, and between said extended sides a dog-bar 8, provided with teeth 9, corresponding to and meshing with the teeth upon the holding-bar, is inserted. One end of said dog-bar is pivotally attached to said slide by means of the pivot-pin 10 and is adapted to be moved thereon to engage and disengage said teeth. The opposite end of said dog-bar is extended beyond the end of the slide by means of which said dog-bar is moved, one end of a chain 11 being attached thereto for that purpose and the other end of said chain being connected to a locking-pin 12, adapted to be inserted in the hole 13, passing through the dog-bar and slide, by means of which said slide is firmly held and secured to said holding-bar. The chain serves the double purpose of attaching the locking-pin to the fastener and for convenience in lifting the dog-bar. One or more stud-pins 14 serve to distance the sides of the slide apart for the free movement of the dog-bar and to form a bearing for the slide upon the edge of the holding-bar.

When it is desired to use the fastener permanently in conjunction with a locked door or where there is no lock, a small slotted plate (not shown) is provided, adapted to be secured to the door-jamb.

The operation is apparent from an inspection of the drawings. The slide is removed from the holding-bar by taking out the locking-pin and lifting the toothed dog-bar from

contact with the holding-bar. When the hook end of the holding-bar is inserted in the lock-recess of the jamb, the door is then closed and the slide placed upon the bar and pushed up against the door, when the dog-bar is closed down to the position shown in Fig. 3 and the lock-pin inserted, firmly securing the slide to the holding-bar and against the door. It will be observed that the construction is such that it makes no difference whether the door to be held is right or left handed.

In my invention I have avoided the use of springs or parts liable to derangement. The construction is desirable for its strength and simplicity and for the convenient manner and low cost at which it can be produced.

Having described my invention, I claim—

In a door-fastener the combination comprising a holding-bar provided with a hook or flanged end adapted to be inserted in a slot in the face of a door-jamb, and provided upon one edge with a seres of teeth or notches, a slide fitted to slide upon said holding-bar, said slide provided with two flanges upon opposite sides at one end, one of which is adapted to press against a door to hold it closed, and the other or opposite one to rest against the door-jamb, a dog-bar pivotally attached to said slide, and provided with teeth adapted to mesh with the teeth upon said holding-bar; and a locking-pin adapted to lock said dog-bar thereto and to said slide substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN W. DOTSON.

Witnesses:
EMIL METZER,
JOSEPH D. FALLEY.