F. T. SKOGLAND.

DOOR FASTENER.

APPLICATION FILED AUG. 14, 1915.

1,171,671. **Patented Feb. 15, 1916.**

Fig. 1

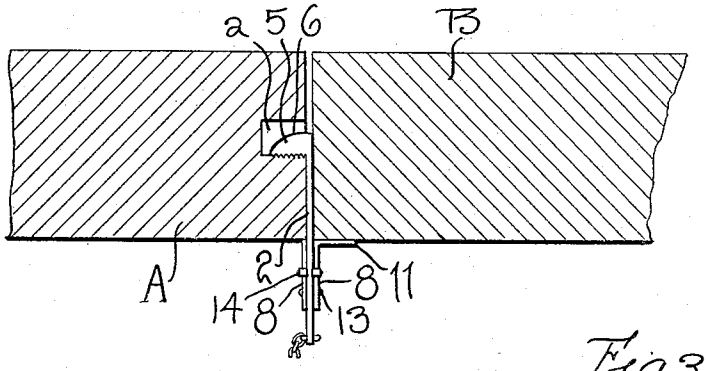


Fig. 3

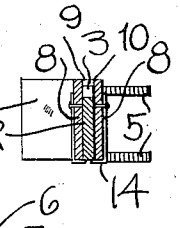
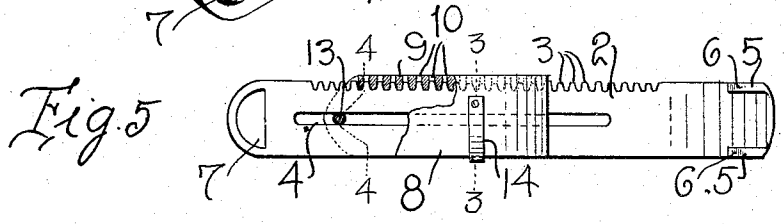


Fig. 2

Fig. 4

Fig. 5



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DOOR-FASTENER.

1,171,671. Specification of Letters Patent. Patented Feb. 15, 1916.

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To all whom it may concern:

Be it known that I, FRANK T. SKOGLAND, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Door-Fasteners, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to improvements in door fastening devices and particularly to fasteners designed for temporary use and adapted to be secured to the jamb of a door.

Another object of my invention is to provide a device of the character described including means for adjusting the device to doors and jambs of different thicknesses.

A further object of the invention is to provide means for very securely engaging the door engaging device with the jamb engaging shank and provide means for holding the door engaging member in proper cooperative relation to the jamb engaging shank.

A further object is to provide a construction which is very simple in character, which may be very cheaply manufactured, and which may be formed of sheet metal.

Other objects will appear in the course of the following description.

My invention is illustrated in the accompanying drawing, wherein,

Figure 1 is a sectional view of a door jamb and door with my device applied thereto; Fig. 2 is a perspective view of the device with the parts separated; Figs. 3 and 4 are sections on the lines 3—3 and 4—4, of Fig. 5; Fig. 5 is a side elevation of the device with the door engaging member partly broken away.

Referring to these figures, it will be seen that the device comprises two members, one adapted to engage the jamb and the other adapted to engage the door. The jamb engaging member comprises a thin strip of metal designated 2 formed upon one edge with a plurality of teeth 3 and formed with a longitudinally extending slot 4. One extremity of the strip 2 is formed with the laterally extending toothed ears 5 which are bent over or otherwise formed upon the strip. These ears have rounded outer edges 6. The extremity of the strip 2 is formed with an opening 7, whereby the device, as a whole, may be readily hung upon a nail or hook.

The door engaging member is also formed preferably of sheet metal and comprises the oppositely disposed cheeks or side walls 8 and the transversely extending connecting web 9 formed with a plurality of openings 10, spaced uniformly apart, the walls between these openings constituting teeth engaging with the spaces between the teeth 3. It will thus be seen that a plurality of teeth are provided upon the door engaging member which will engage a plurality of teeth on the jamb engaging shank. The door engaging member is formed at one end with a laterally projecting flange 11 and the cheeks or side walls 8 are each formed with a perforation 12 to receive an attaching bolt or pin 13 which passes through the slot 4. This door engaging member is both pivotally and slidably mounted upon the shank 2. The door engaging member is held in locked engagement with the shank by a detent spring 14 which is attached to one of the cheeks in any suitable manner and extends downwardly and transversely across the strip 2. The door engaging member may be lifted or rotated upon its pivot and the spring 14 will then yield to permit this, when it is rotated on its pivot, so that the teeth 10 will disengage from the teeth 3. The door engaging member may be shifted longitudinally along the shank so as to space it different distances from the ears 5 and thus adjust the device to doors and jambs of different thicknesses.

It will be seen that I have provided a very simple, effective and cheap device for absolutely holding a door from being opened. The shank 2 is to be thin enough to insert it between the edge of the door and the door jamb and is preferably made of sheet metal. Inasmuch as the ears 5 are disposed in planes at right angles to the strip 2, it is obvious that even thin metal will give sufficient strength to these ears. With my invention, it is impossible to open a door without moving the door engaging member out of engagement with the teeth 3, so that it may be shifted back and rotated to such position as to allow the door to escape from its engagement with the member 11. Preferably the teeth 3 will be of relatively small size, that is, there will be a great many of the teeth 3 so that the door engaging member may have a relatively fine adjustment and may fit accurately against the face of any size door.

The device applied, is shown in Fig. 1, where A designates the jamb of the door and B the door itself. The ears 5 are disposed within the keeper socket *a* of the door, the member 11 bearing against the face of the door.

Having thus described this invention, what I claim is:—

1. A device of the character described comprising a shank having teeth formed in one of its longitudinal edges and a laterally projecting ear on one end, a door engaging member slidably and rotatably mounted at one of its ends upon said shank, said member being provided with means for interlocking engagement with the teeth on said shank when said member and shank are disposed in parallel planes, whereby the member is held against pivotal or sliding movement with respect to the shank, and a spring latch element fixed at one of its ends to the door engaging member and having its other free end angularly disposed for engagement with the untoothed edge of the shank, whereby the door engaging member is held against casual pivotal movement with respect to the shank and retained in interlocking engagement therewith.

2. A device of the character described comprising a shank having teeth upon one edge, one end of the shank being formed with laterally projecting spaced ears disposed in planes at right angles to the plane of the shank, the shank being longitudinally slotted and a door engaging member having opposed cheeks engaging on each side of the shank connected by a web formed with a plurality of perforations adapted to receive and engage with the teeth on the shank, a pivot pin passing through the cheeks of the door engaging member and permitting the door engaging member to be rotated in one direction to carry its web out of engagement with the teeth on the shank, the end of the door engaging member being formed with a laterally extending flange, and a spring mounted upon the door engaging member and extending down beneath the shank and acting to prevent the accidental rotation of the door engaging member upon its pivot pin, from a locking to an unlocked position.

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

FRANK T. SKOGLAND.

Witnesses:

S. F. WALSTAD,

C. K. LOW.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."