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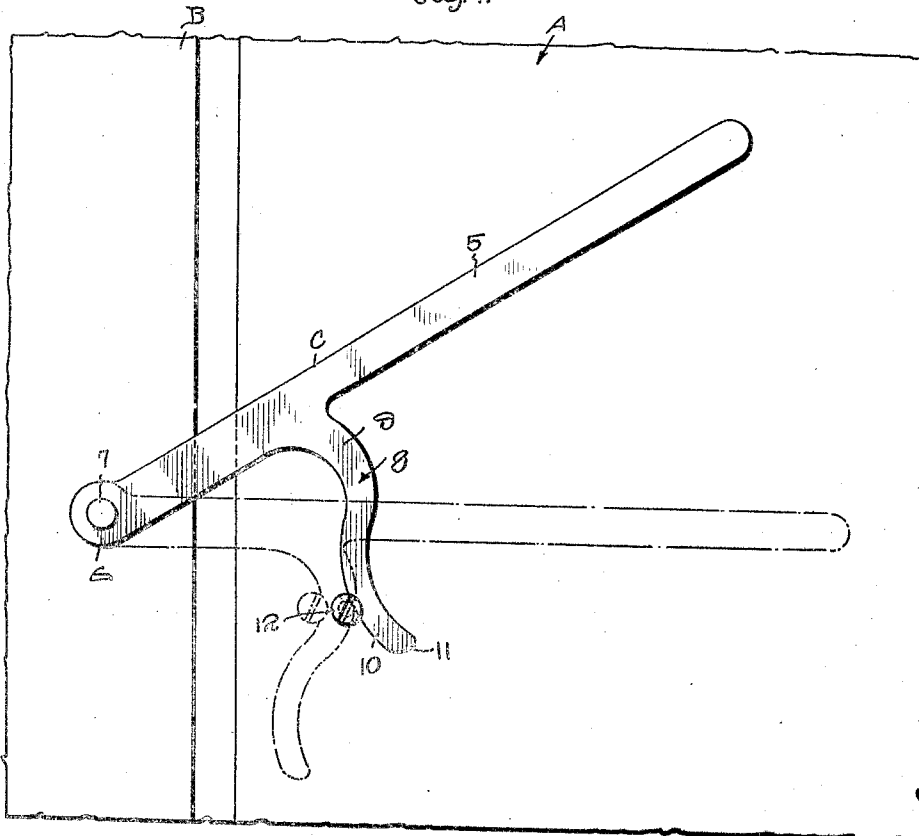
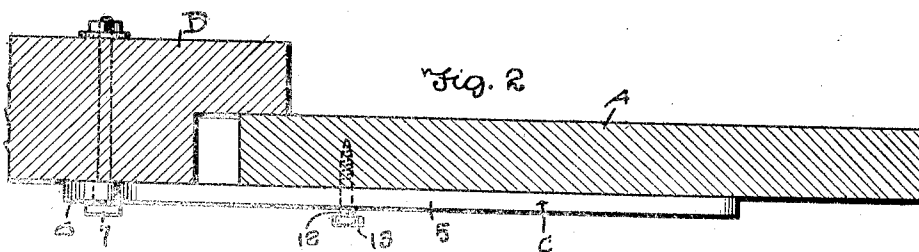
1,589,874

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DOOR HOOK

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Fig. 1.



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DOOR HOOK.

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This invention appertains to builders' hardware and more particularly to a novel door fastener.

The primary object of the present invention is to provide a novel device for drawing a sliding door to a fully closed shut position and for holding the said door in that position against accidental opening movement.

Another object of the invention is to provide a door hook and latch pivotally associated with the door frame and having a cam for engaging a keeper member on the sliding door, the cam arm tending to draw the door to a fully closed position upon downward movement of the lever to its locking position.

A still further object of the invention is to provide an improved door latch and closer of the above character, which will be durable and efficient in use, one that will be simple and easy to manufacture and one which can be placed upon the market at a small cost.

With these and other objects in view, the invention consists in the novel construction, arrangement and formation of parts, as will be hereinafter more specifically described, claimed, and illustrated in the accompanying drawings, in which drawings:

Figure 1 is a side elevation of the novel latch and door holder showing the same in its inoperative position in full lines, and in its operative position in dotted lines,

Figure 2 is a top plan view of the novel latch and door closer showing the same applied to the door and jamb, the door jamb being shown in horizontal section,

Referring to the drawings in detail, wherein similar reference characters designate corresponding parts throughout the several views, the letter A indicates a sliding door of any conventional construction and B a door jamb, and C the novel door latch and closer.

The novel door latch and closer C comprises a latch lever 5 having an eye 6 formed on its inner end through which is adapted to extend a bolt 7. The bolt 7 extends through the jamb B of the door as clearly shown in Figure 2 of the drawings. The latch lever 5 extends inwardly from the door jamb B toward the sliding door A and the lower edge of the lever 5 at a point spaced from but adjacent to the eye 6 is provided with a

depending locking and closing arm 8. As shown the arm 8 includes an arcuate body portion 9 which is bowed toward the free end of the latch lever and the cam portion 10 which is bowed toward the eye 6. The lower free end of the arm 8 is inclined as at 11, for a purpose, which will be hereinafter more fully described. The sliding door A adjacent to the inner edge thereof and at a point below the bolt 7 is provided with a keeper 12 which can be in the nature of a bolt or a wood screw as shown. If preferred an anti-friction roller can be mounted upon the shank of the bolt or wood screw, but it is essential that the keeper be provided with a head 13, spaced from the face of the door.

In use of the improved door latch and closure, the door A is slid, as near as possible to its closed position after which the lever 5 is swung downward. The inclined face 11 of the arm 8 will guide the arm over the keeper 12 and the arcuate face of the cam portion 10 of the arm will engage the keeper and push the door to its fully closed position. After the lever has been swung downwardly to its fullest extent, the keeper will ride into the arcuate portion 9 of the arm, which will tend to prevent accidental movement of the latch lever 5 and normally hold the door in its closed position against opening movement.

The device is particularly adapted for use on doors, which are hard to move to their fully closed position, and the use of the cam arm will facilitate the closing of the door as well as the holding of the door against movement.

Changes in details may be made without departing from the spirit or scope of this invention, but

What I claim as new is:

1. The combination with a door jamb and a sliding door, of a combined latch and door closer comprising a latch lever pivotally secured at its inner end to the door jamb and adapted to extend over one face of the door, a keeper including a shank secured to one face of the door adjacent to the inner edge thereof and below the pivot point of the lever having a head spaced from the mentioned face of the door, a depending arm carried by the lower edge of the lever at a point spaced from and adjacent to the pivot point of the lever including a rear-

wardly bowed arcuate portion and an inwardly bowed cam arm engaging said keeper.

2. As a new article of manufacture, a latch
5 lever comprising a body, an eye formed on the inner end of the body, a depending arm formed on the lower edge of the body ad-

jacent to the eye including an outwardly bowed body portion forming a seat and inwardly bowed cam arm, the free terminal of the arm being provided with an arcuate leading edge. 10

In testimony whereof I affix my signature.
WILLIAM A. EWING.