Feb. 5, 1924.

1,482,643

H. C. ETHERIDGE

DOOR HOOK

Filed Sept. 5, 1922

Fig. 1.

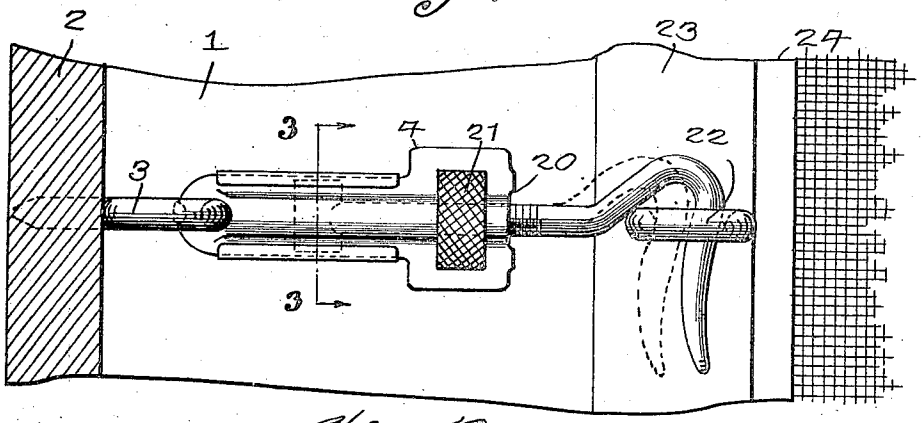


Fig. 2.

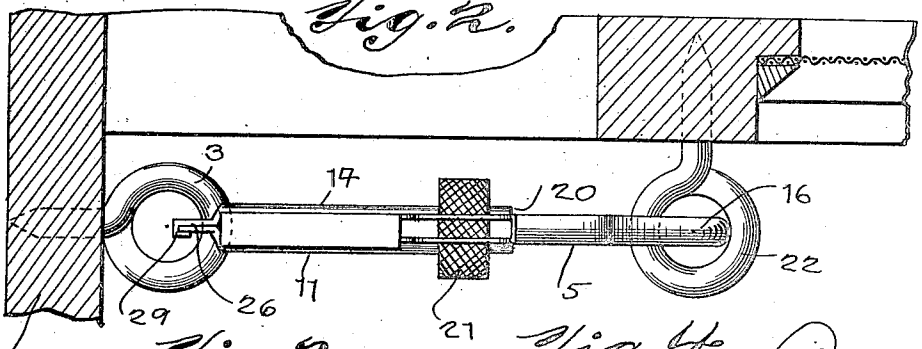


Fig. 3.

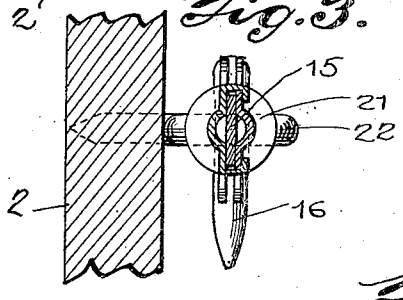


Fig. 4.

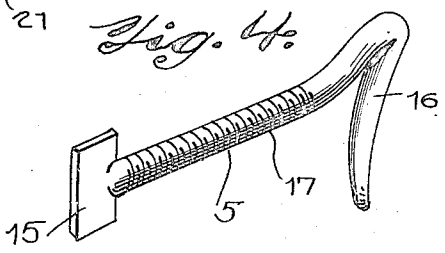
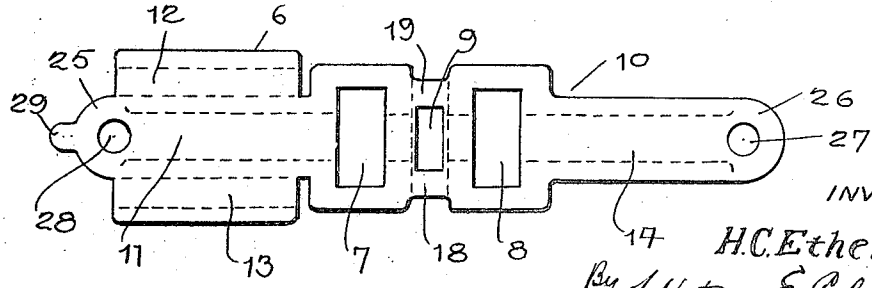


Fig. 5.



INVENTOR.

H.C. Etheridge

By Watson E. Coleman

Patented Feb. 5, 1924. 1,482,643

UNITED STATES PATENT OFFICE.

HARRY C. ETHERIDGE, OF WACO, TEXAS.

DOOR HOOK.

Application filed September 5, 1922. Serial No. 586,364.

To all whom it may concern:

Be it known that I, HARRY C. ETHERIDGE, a citizen of the United States, residing at Waco, in the county of McLennan and State of Texas, have invented certain new and useful Improvements in Door Hooks, of which the following is a specification.

This invention relates to improvements in a door latch and has for its object to provide an adjustable latch hook for screen or other doors.

With the above and other objects in view I have invented the device illustrated in the accompanying drawings in which—

Figure 1 is an elevational view broken away, embracing my invention;

Figure 2 is a top plan view of Figure 1;

Figure 3 is a section on line 3—3 of Figure 1;

Figure 4 is a perspective view of a hook member; and

Figure 5 is a plan view illustrating a pattern of a housing for a latch hook.

Like reference characters indicate like parts throughout the following specification and in the several views in the drawings in which, 1 indicates a door frame into the portion 2 of which the screw eye 3 is screwed. Pivotally mounted in the eye 3 is a housing 4 in which the hook member 5 is slidably mounted. The housing 4 is formed from a blank 6 having cut-outs 7 and 8 of a similar size and between which is located a reduced cut-out 9 on a transverse line with which the forward portion of the blank 10 is adapted to be bent and returned over the rear portion 11, said latter portion having longitudinal extension flanges 12 and 13 which are adapted to be returned over the tongue portion 14 of the forward part 10 of said member 6. The hook member 5 is provided with a flat enlarged inner end 15 and a hook 16 on its outer end between which ends the body portion of the hook is threaded as at 17. The threaded shank 17 projects through the opening 9 which, with the reduced sides 18 and 19, forms the outer end 20 of said housing. A knurled nut 21 is threaded on the shank 17 and projects through the openings 7 and 8 whereby said nut may be easily rotated with the fingers. The flanges 12 and 13 are returned over the longitudinal edges of the tongue 14 and between which and the members 11 and 14 the end 15 of said hook member is slidable, the enlarged end 15 acting as a guide for the hook member as it is moved forward or rearward through the movement of said nut 21, said member 15 also holding the hook 16 vertically disposed when in operative position or at substantially right angles to the screw eye 22 in the frame 23 of the door 24. The ends 25 and 26 of the member 6 are provided with opposing openings 27 and 28 through which the eye 3 is threaded. The part 25 is provided with an extension tongue 29 which is returned over the ends 26 as indicated in Figure 2.

From the above description it will be noted that the threaded shank 17 of the hook member 5 may be nicely adjusted so as to engage the screw eye 22 and hold the screen or other door 24 closed tightly. In door hooks now in use, swaying of the door or drawing of one of the screw eyes 3 or 22 will cause the ordinary hook to hold the door loosely closed, thus allowing of cracks through which flies and other insects may readily enter. Whereas, with the above described hook the door may always be held tightly closed simply by a quick adjustment of the nut 21.

Having described my invention that which I claim to be new and desire to procure by Letters Patent is:

1. A device of the class described comprising a housing provided at one end portion with attaching means, the opposite end being provided with an opening and the opposed walls of the housing adjacent to said opening being provided with cut out portions, a nut extending through the housing and said cut out portions, a hook member disposed within the housing through the opening in an end thereof and upon which the nut is threaded, rotation of the nut extending or retracting the hook member with respect to the housing, and means carried by the inserted end portion of the hook member for limiting the outward movement of the hook.

2. A device of the class described comprising a housing provided at one end portion with attaching means, the opposite end being provided with an opening and the opposed walls of the housing adjacent to said opening being provided with cut out portons, a nut extending through the housing and said cut out portions, a hook member disposed within the housing through the opening in an end thereof and upon which the nut is threaded, rotation of the nut ex-

tending or retracting the hook member with respect to the housing, the inserted end portion of the hook member and the housing having coacting means for holding the hook member and housing against independent rotary movement.

3. A device of the class described comprising in combination, a housing provided with attaching means at one end and with an opening at the opposite end, the side marginal portions of the housing being provided with internal guide ways, a hook member having an end portion insertible within the housing through the open end thereof, the inserted end portion of the hook member being provided with an enlarged portion engaging within the guide ways of the housing to hold the hook member and housing against relative rotation, and means coacting with the hook member and the housing for extending or retracting the hook member with respect to the housing.

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

HARRY C. ETHERIDGE.

Witnesses:

CLYDE McMOHAN,

P. DEWEY DUNCAN.