Aug. 10, 1926. 1,595,402

W. ILER

FRAME HOLDER

Filed April 13, 1925

Fig. 1.

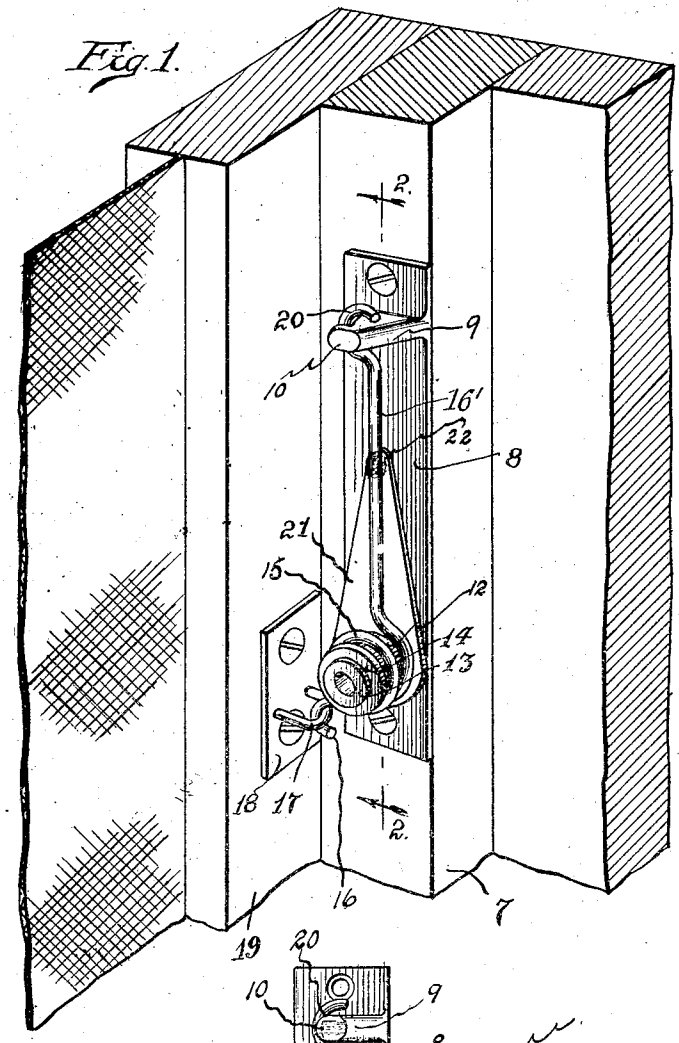


Fig. 2.

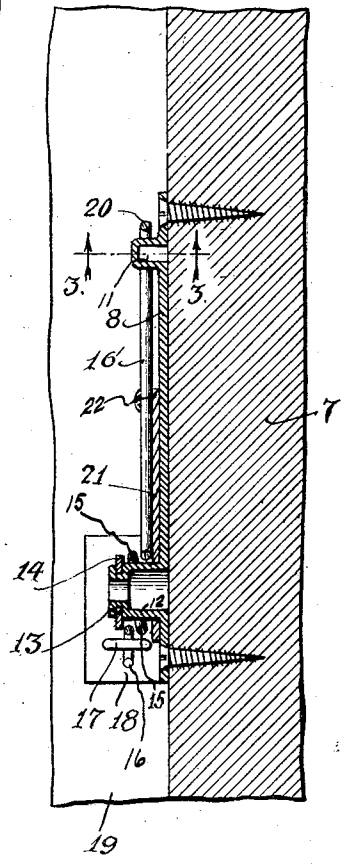


Fig. 4.

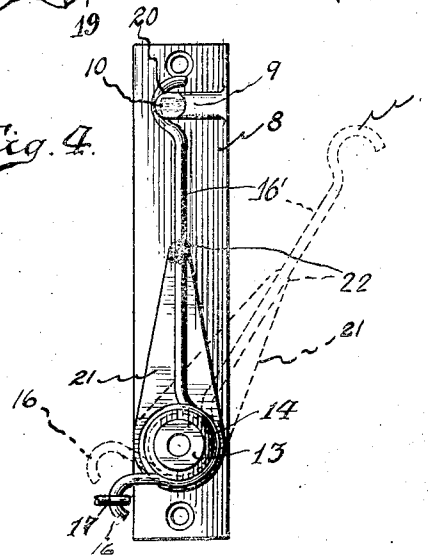
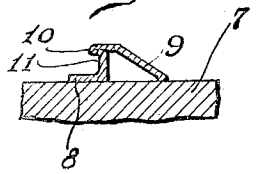


Fig. 3.



INVENTOR.

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UNITED STATES PATENT OFFICE.

WILLIAM ILER, OF DETROIT, MICHIGAN.

FRAME HOLDER.

Application filed April 13, 1925. Serial No. 22,716.

My invention relates to a new and useful improvement in a frame holder and has for its object the provision of a device adapted for attachment to a window frame for engaging a screen frame to securely lock the screen frame in position on the window frame.

Another object of the invention is the provision of a rockably mounted frame catch adapted for mounting on a window frame and for engaging a screen frame and being rocked into a locking position to securely bind the screen frame in fixed relation to the window frame.

Another object of the invention is the provision of a frame holder of the class set out herein, which will be simple in structure, economical of manufacture, and highly efficient in use.

Other objects will appear hereinafter.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood from a reference to the accompanying drawings which form a part of this specification and in which

Fig. 1 is a fragmentary perspective view of a window frame and screen frame showing the invention attached,

Fig. 2 is a longitudinal vertical sectional view of the invention,

Fig. 3 is a sectional view taken on substantially line 3—3 of Fig. 2,

Fig. 4 is a top plan view of the invention.

The invention is adapted for mounting on a window frame 7 and comprises a base plate 8, which is secured to the window frame 7 by screws or other suitable means. Projecting outwardly from the base is a boss having an inclined side 9 which is directed inwardly of the window, and provided with a flange 10, adjacent its upper end, the rear wall 11 of said boss being vertically extended to the base plate 8.

Projecting upwardly from adjacent the opposite end of the base plate 8 is a boss 12 having a reduced portion 13 for the reception of a washer 14, the reduced portion being riveted over the washer to retain it in mounted position on the boss 12. Coiled about the boss 12 is a spring 15 having one end curved to form a hook 16, adapted to engage in a staple 17 projecting from a plate 18 which is secured to the screen frame 19. The opposite end of the spring 15 is formed in a U-shaped hook 20 adapted to engage, when in operative position, the wall 11 of the boss which projects from adjacent one end of the plate 8. In moving the hook 20 into engagement with the wall 11, the hook 20 rides over the inclined surface 9. A wear plate 21 is mounted upon the boss 12 and is formed substantially triangular shaped and secured at its apex 22 to the wire 16'.

In operation, the screen frame 19 is placed in the window frame and the hook 16 is engaged in the staple 17. The wire which is coiled upon the stud 12 is then rotated, or rocked, on the stud 12, so as to move the hook 16 inwardly, so as to draw the frame 19 closer against the window frame 7. By continuing the movement against the tension, the resiliency of the wire coil and the hook 20 may be engaged behind the boss, so as to engage the wall 11 and be thus securely locked in operative position. In this way, the screen frame 19 is securely locked against displacement from the window frame 7 and as the hook 16 is moved rotatably to draw the frame 19 inwardly of the window frame 7, a slight downward pressure is also exerted upon the screen frame 19, so as to lock it in close engagement with the sill of the window frame, thus assuring a tight connection at this place. The device may, of course be used to secure any frame desired.

While I have illustrated and described the preferred form of structure, I do not wish to limit myself to the precise form of structure shown, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A frame fastener of the class described adapted for mounting on a window frame for securing a screen frame in assembled relation to said window frame, comprising a base; a coil spring rockingly mounted on said base, one end thereof being elongated to provide a locking arm, the opposite end being extended to provide an engaging hook; an eyelet mounted on said screen frame for engaging said hook; and means on said base plate for engaging said arm for locking said hook in engagement with said eyelet.

2. A frame fastener of the class described comprising a base adapted for mounting on a window frame; a boss projecting from said

base; a coil spring rotatably mounted on said boss, one end of said spring being elongated to provide a locking arm, the opposite end of said spring being extended to provide a hook for engaging an eyelet on a screen frame; and means on said base for engaging said locking arm for locking said hook in engaging relation with said eyelet.

3. A device of the class described, comprising a base; a boss projecting outwardly from one face of said base; a coil spring adapted for mounting rockingly on said boss, one end of said spring being elongated to provide a locking arm, the extreme end of said locking arm being curved; a boss mounted on said plate, adjacent one end thereof for engaging said curved portion of said locking arm upon movement of said locking arm in one position, the opposite end of said spring being extended to provide a hook; and a plate having an eyelet projecting therefrom adapted for engaging said hook.

4. A device of the class described, comprising a base; a boss projecting outwardly from one face of said base adjacent one end thereof; a coil spring adapted for mounting rockingly on said base, one end of said spring being elongated to provide a locking arm, the extreme end of said locking arm being curved to form a hook; a boss mounted on said plate adjacent the opposite end, adapted for engaging the curved portion of said locking arm upon movement of said locking arm into one position, the opposite end of said spring being extended to provide an additional hook; a plate having an eyelet projected therethrough adapted for engaging said additional hook; and a plate rockingly mounted on said first-mentioned boss and attached at one end to said locking arm for reinforcing the same.

In testimony whereof, I have signed the foregoing specification.

WILLIAM HLER.