

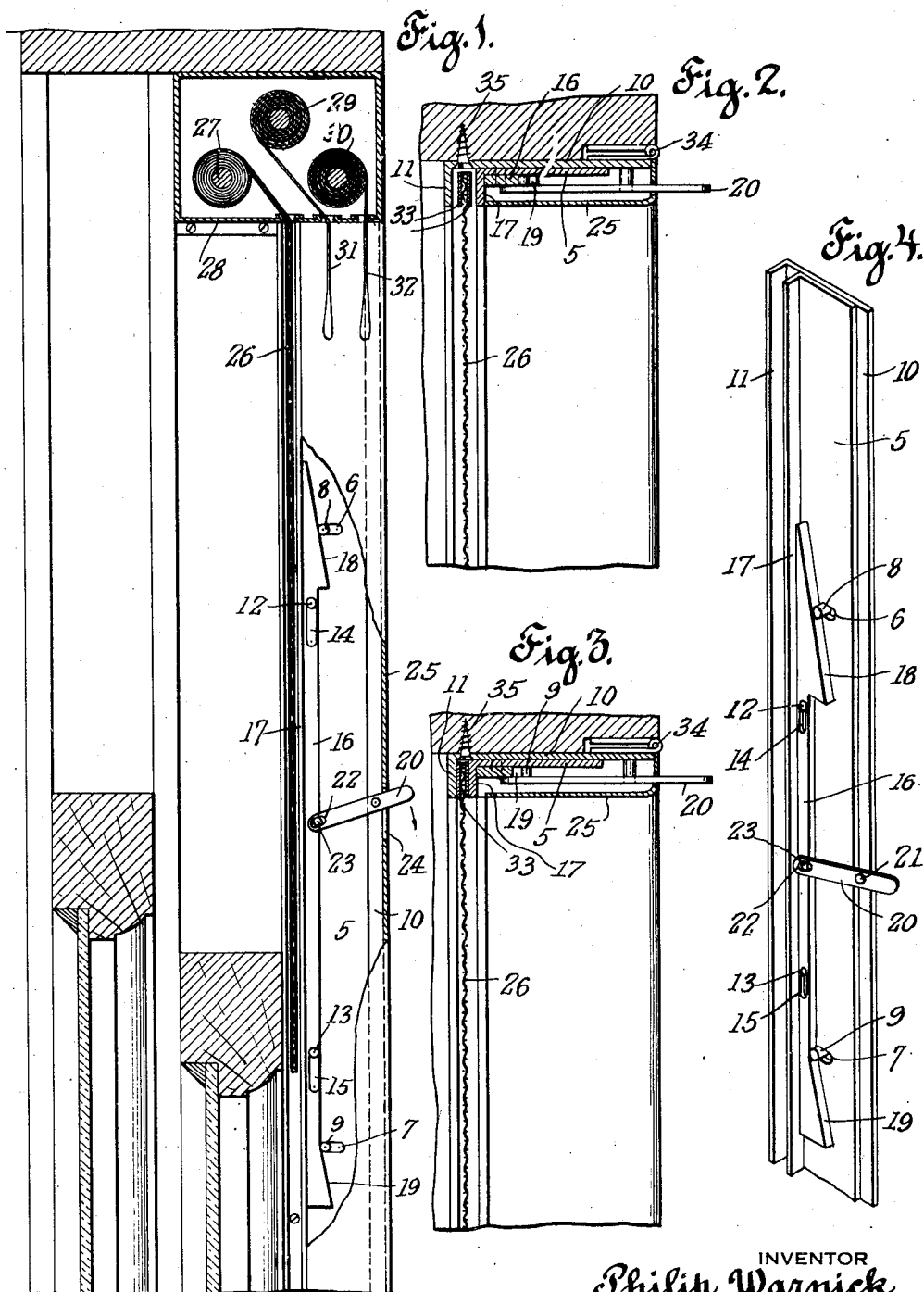
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WINDOW SCREEN

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WINDOW SCREEN.

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This invention relates to window screens and more particularly to devices for holding the edges of window screens tightly against a window frame.

There is now in general use a window screen which may be wound upon a roller when not in use in the same manner as a window shade.

However, such screens, on account of their mounting and construction, have their side edges free, and as a result flies, bugs and other insects, are able to pass freely around the edges of the screen, there being an appreciable space between the screen and the window frame, and consequently are objectionable in that respect.

It is an object of this invention to provide a device for tightly clamping the side edges of a screen, of the type described, against a window frame so that there will be no openings available for the entrance of insects and other undesirable things which the screen is intended to exclude.

A further object is to provide a clamping device which will occupy an inappreciable space so that it will not materially alter the appearance and structure of the window.

These and other objects are attained by the novel construction, combination and arrangement of parts hereinafter described and shown in the accompanying drawing, constituting a material part of this disclosure, and in which:—

Figure 1 is a sectional view of a window equipped with the clamping device.

Figure 2 is a sectional view showing the position of the parts when the clamping device is not in use.

Figure 3 is a view similar to that of Figure 2 and shows the position of the parts when the clamping device is in use.

Figure 4 is a perspective view showing details of the clamping device.

Referring to the drawings and particularly to the perspective view in Figure 4, the clamping device is shown to include a plate 5 having slots 6 and 7 through which pins 8 and 9 pass, the pins being fixed to the plate 10 which is provided with a flange 11.

Fixed to plate 5 are pins 12, and 13 which pass through slots 14 and 15 in the clamping strip 16, the latter having one edge in contact with the flange 17 of plate 5. The opposite edge of the clamping strip 16 is pro-

vided with cam surfaces 18 and 19 engaged respectively by pins 8 and 9, so that when the strip 16 is moved upwardly the pins 8 and 9 will cam strip 16 and flange 17 towards the flange 11, the slots 6 and 7 being proportioned to allow for the lateral movement of plate 5.

The strip 16 is manipulated by means of a lever 20 pivoted at 21 to plate 10 and having a slot 22 through which passes pin 23, the latter being fixed to strip 16. The outer end of the lever passes through a slot 24 in the metal moulding 25 which conceals the parts of the device.

The screen 26 is wound upon a roller 27 mounted in casing 28 which may also support the rollers 29 and 30 upon which shades 31 and 32 are wound, the screen and shades passing through slots in the lower side of the casing 28.

As shown in Figures 2 and 3 the side edges of the screen are held between felt strips 33 and move between the flanges 11 and 17.

The plate 10 is connected to the window frame by means of a hinge 34 and screws 35.

In operation when the sash and the screen have been moved to desired positions, the free arm of lever 20 is depressed to raise the clamping strip 16, and the pins 8 and 9 co-act with cams 18 and 19 to force strip 16 and flange 17 toward flange 11 to tightly clamp the side edges of the screen between the flanges 11 and 17.

From the above description it will be seen that there has been provided an effective device for tightly clamping the side edges of a screen of the type described to prevent the entrance of insects and other undesirable things. The device may be readily applied to a standard window without material alterations, and it occupies an inappreciable space, thus not affecting the usual appearance of the window.

The foregoing disclosure is to be regarded as descriptive and illustrative only, and not as restrictive or limitative of the invention, of which obviously an embodiment may be constructed including many modifications without departing from the general scope herein indicated and denoted in the appended claims.

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

1. A device for clamping the side edges of a window screen, comprising a stationary plate having a flange, a movable plate having a flange, pins on the stationary plate passing through slots in the movable plate, a longitudinally movable strip having cam surfaces engaged by the pins, one edge of said strip engaging the flange on the movable plate, and means for moving the cam surfaces upward against the pins to cause lateral movement of the flange on the movable plate towards the flange on the stationary plate.
2. In a device for clamping the side edges of a window screen, a movable plate having a flange, a longitudinally movable cam strip having an edge engaging said flange, pins on said plate passing through slots in said strip, and means co-acting with the cam strip to move the flange laterally when the strip is moved longitudinally.
3. In a screen clamping device, a movable plate a strip constantly engaging said plate and longitudinally movable, inclined surfaces on one edge of the strip, and stationary pins engaging said inclined surfaces to cause lateral movement of the strip and plate when the strip is moved longitudinally.
- This specification signed this 14th day of June, 1928.

PHILIP WARNICK.