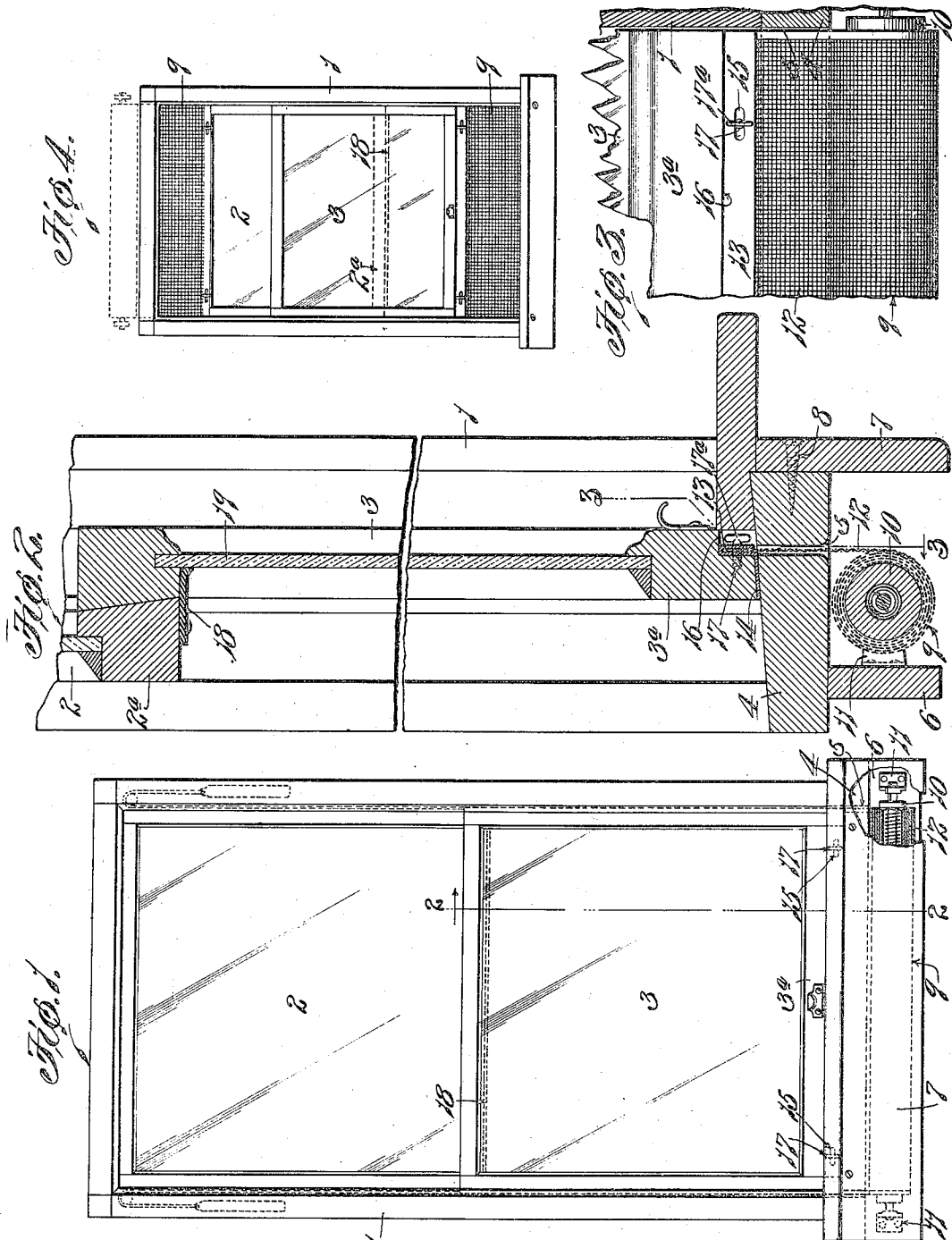


E. L. COVELL.
 SCREEN AND WINDOW FRAME THEREFOR.
 APPLICATION FILED OCT. 17, 1910.

1,000,993.

Patented Aug. 22, 1911.



Witnesses:
 Geo. R. Radson
 Leo Zickbaum

Inventor,
 Emma L. Covell.
 By Ralph Kish Atty.

UNITED STATES PATENT OFFICE.

EMMA L. COVELL, OF RICHMOND, INDIANA.

SCREEN AND WINDOW-FRAME THEREFOR.

1,000,993.

Specification of Letters Patent. Patented, Aug. 22, 1911.

Application filed October 17, 1910. Serial No. 587,463.

To all whom it may concern:

Be it known that I, EMMA L. COVELL, a citizen of the United States, residing at Richmond, county of Wayne, State of Indiana, have invented a certain new and useful Improvement in Screens and Window-Frames Therefor, of which the following is a specification, reference being had to the accompanying drawings, forming a part hereof, in which—

Figure 1 is a front elevational view of a window equipped with my new screen, the window-sashes being shown in closed position with the screen also in closed or fully-rolled position and a portion of the housing for the screen being broken away and the fully-rolled screen there shown in section; Fig. 2 is an enlarged vertical sectional view on the line 2—2, Fig. 1; Fig. 3 is a detail sectional view on the line 3—3, Fig. 2; and Fig. 4 is a front elevational view of a window equipped with my new screen for both sashes thereof, the said sashes being shown in partly open position with the screens correspondingly unwound from their respective rollers.

This invention relates to a certain new and useful improvement in screens and window-frames therefor, the object of my invention being to provide a screen which may be removably attached to a window-sash and be raised and lowered therewith and a window-frame adapted therefor.

With this object in view, my invention resides in the novel construction, arrangement, and combination of the several parts of my screen and in the novel arrangement and combination of my screen with a window-frame and the sash or sashes thereof, all as will hereinafter be described and afterward pointed out in the claim.

In the drawings, 1 indicates a window-frame of any approved construction having upper and lower window-sashes 2 and 3, respectively, slidably arranged therein, as is usual, and a sill 4, this sill 4 being provided with a slot, as at 5, for purposes hereinafter appearing, extending vertically therethrough and of a length substantially equal to the width of said sashes. Beneath said window-sill 4, said frame 1 is provided with a housing for my new screen, this housing comprising, or being formed by, a back portion 6 and a front portion or apron 7 preferably removably secured in place, as by screws 8, for obvious reasons. Frame 1 with said

housing is adapted to be suitably arranged, as is usual, in the wall of a building, car, or other structure, and having a sill-portion extending forwardly on window-sill 4. Arranged in said housing is my new screen 9. This screen 9 comprises a suitable spring-actuated roller 10 adapted to be rotatably mounted on suitable brackets 11 secured preferably to said back-portion 6 of the housing, and a roll of flexible material, wire-mesh or screen, 12 secured at one end to said roller and normally wound thereon, this wire-mesh being of any suitable length as desired and of a width substantially equal to the width of said window-sashes, so that, when attached to a sash, as hereinafter described, and the sash raised, it will correspondingly cover the opening or space between the lower rail of the sash and the sill. The free end of said roll or wire-mesh 12 is adapted to be passed upwardly through said slot 5 and is provided with what might be called a U-shaped strip 13 provided with an outwardly-extending portion or flange 14, strip 13 being pinched or otherwise suitably secured to said free end of said wire-mesh 12.

The lower rail 3^a of lower window-sash 3 is preferably cut-away or recessed, as at 16, see particularly Fig. 2, and is there provided with a plurality of screws 17 provided with broad flat heads 17^a adapted to pass through and operatively engage with suitable slots 15 in said strip 13, whereby, as will be seen, said wire-mesh 12 will be removably held in engagement with said window-sash. Whenever said sash is now raised, said wire-mesh 12 will be unwound correspondingly from its said roller 10 and be held taut by the pull thereof; and when the sash is lowered, said wire-mesh 12 will automatically, under the pull of its said roller, be again correspondingly wound thereupon, as will be clear. When said strip 13 is so attached to said sash, said outwardly-extending portion 14 thereof is adapted to fit snugly against the under surface of said lower rail 3^a of sash 3, as shown particularly in Fig. 2, and should said strip 13 be disengaged from said sash, said portion 14 thereof is further adapted to impinge against sill 4 and prevent said wire-mesh 12, under the pull of its said roller, escaping back through slot 5 into said housing.

It will be noted, see particularly Fig. 2, that the height of said cut-away portion or

recess 16 is about equal to or preferably somewhat less than the height of said apron-sill portion, whereby, when sash 3 is in closed or lowered position, the upper end 5 or top of said recess 16 is substantially flush with the upper surface of said apron-sill portion and said screws 17 are hidden from view.

In order to prevent the entrance of insects and the like between the two sashes of the window when the window is opened, I preferably arrange a strip of rubber or other suitable flexible material 18 on the lower rail 2^a of upper sash 2, which strip is adapted to slide or rub against the glass 19 of lower sash 3 when the window is opened and thus close communication between said sashes, as clearly shown in Figs. 1 and 2.

It is obvious that a window might readily be likewise equipped with my new screen for both sashes thereof, as shown in Fig. 4, if desired; and it is also to be understood that minor changes in the construction, arrangement, and combination of the several parts of my screen and in the arrangement and combination of my screen with a window-frame and the sash or sashes thereof might be made and substituted for those herein shown and described without departing from the nature and principle of my invention.

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

In combination, a window-frame provided with a sash slidable therein, the lower rail of said sash having a recess or cut-away portion provided with a plurality of engaging screws, a window-sill having a slot extending vertically therethrough, a housing beneath said sill, said housing comprising a

back portion and a removable front apron having a sill portion extending forwardly on said window-sill, the upper end of said sash-recess being substantially flush with the upper surface of said apron-sill when said sash is in closed position; a spring actuated-roller rotatably mounted in said housing under said window-sill, a roll of wire-mesh wound on, and secured at one end to, said roller and having its outer or free end passing up through said window-sill slot, and a substantially U-shaped metallic strip provided with an outwardly-extending flange and a plurality of slots on the free end of said roll, said strip being adapted to fit in said sash-recess and said screws being adapted to removably engage with said slots and operatively hold said roll in engagement with said sash against the pull of said roller, whereby, on the raising and lowering of said sash, said roll will be unwound from and automatically rewound on said roller, and said outwardly-extending flange being adapted, when said screws are in engagement with said strip, to fit snugly against the under surface of said lower sash-rail and, on the disengagement of said strip from said screws, to impinge against said window-sill and thereby prevent said free end of said wire-mesh roll escaping back under the pull of said roller through said window-sill-slot into said housing; substantially as described.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

EMMA L. COVELL.

Witnesses:

C. D. COVELL,
RUTH PETERSON.