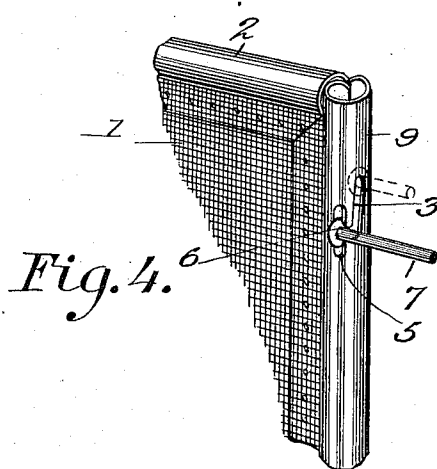
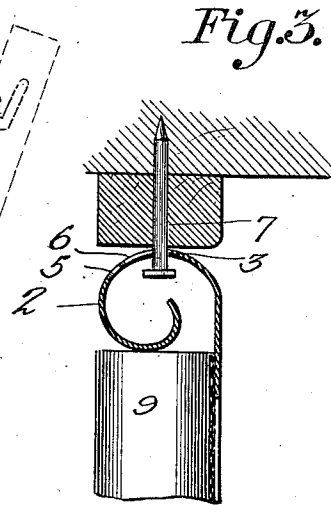
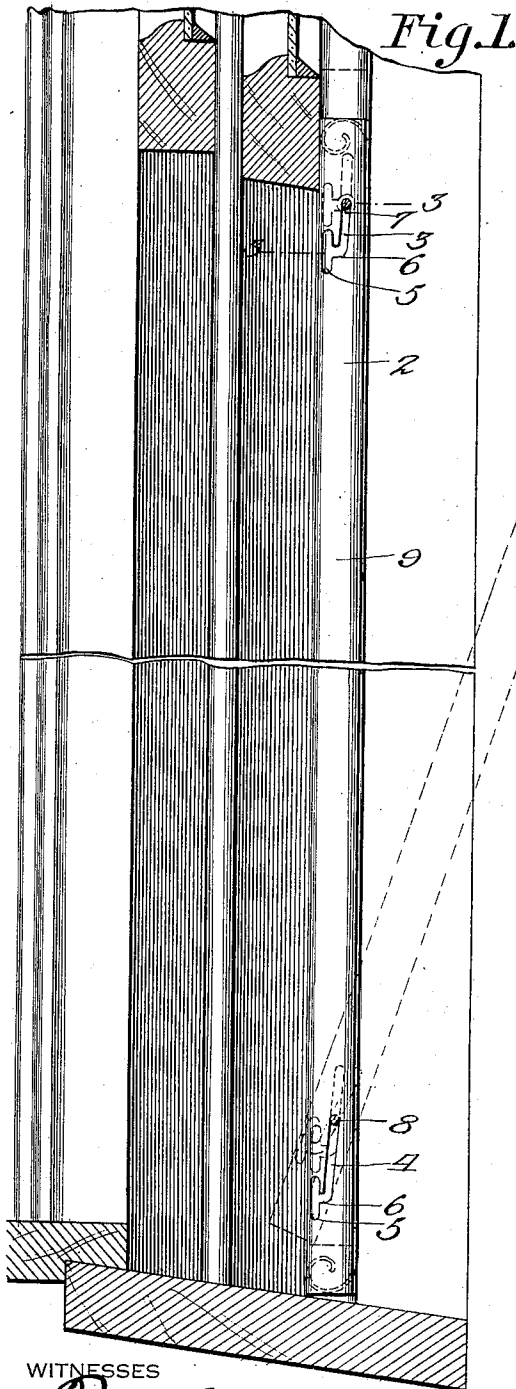


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G. W. COREY.
WINDOW SCREEN.
APPLICATION FILED DEC. 5, 1910.

Patented Apr. 16, 1912.
2 SHEETS-SHEET 1.



WITNESSES

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Fig. 2

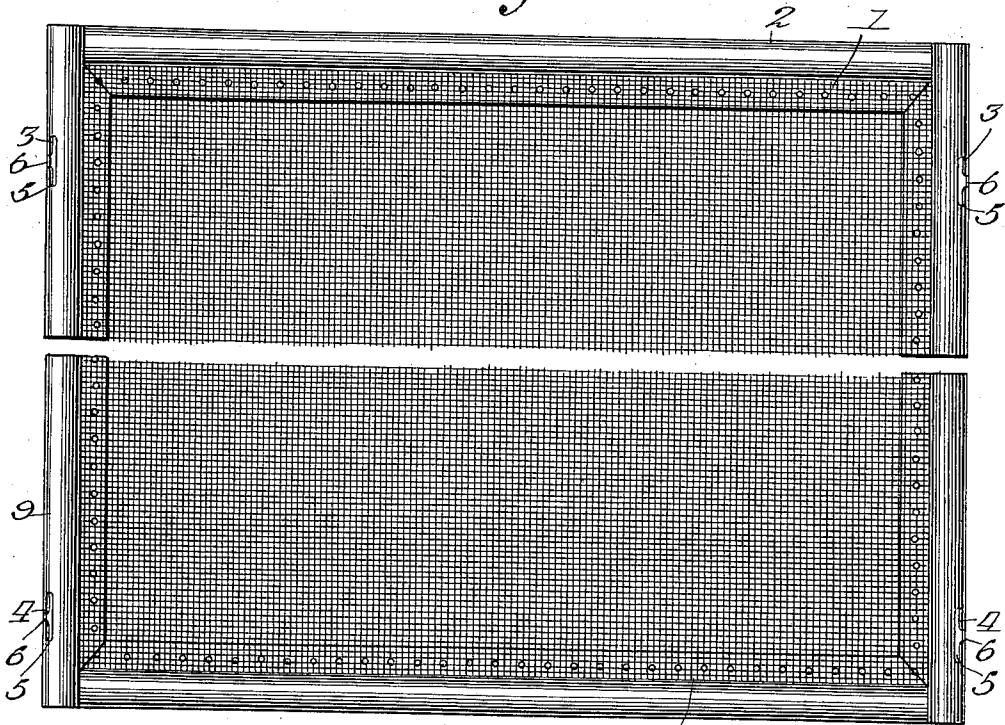
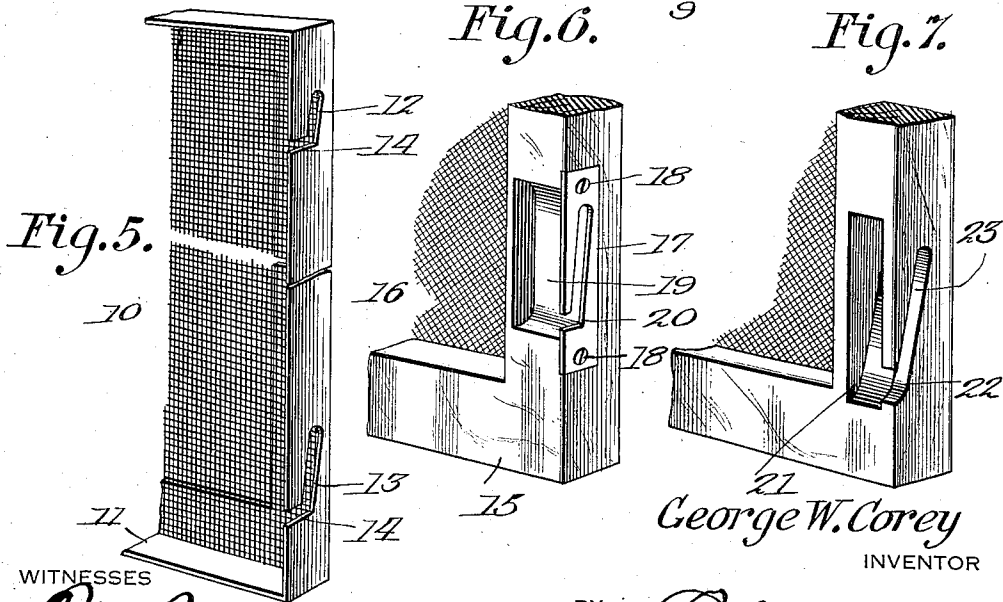


Fig. 6.

Fig. 7.



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UNITED STATES PATENT OFFICE.

GEORGE W. COREY, OF SAN FRANCISCO, CALIFORNIA.

WINDOW-SCREEN.

1,023,625.

Specification of Letters Patent.

Patented Apr. 16, 1912.

Application filed December 5, 1910. Serial No. 595,685.

To all whom it may concern:

Be it known that I, GEORGE W. COREY, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented a new and useful Window-Screen, of which the following is a specification.

The invention relates to improvements in window screens.

10 The object of the present invention is to improve the construction of window screens, and to provide a simple, inexpensive and efficient window screen, equipped with means for enabling it to be readily applied to and removed from a window and for also 15 permitting it to be disconnected at the top from the window and swung outward so that flies may be readily driven out of the window.

20 With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims 25 hereto appended; it being understood that various changes in the form, proportion, size, and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention. 30

In the drawings:—Figure 1 is a vertical sectional view of a portion of a window having a screen, constructed in accordance with this invention. Fig. 2 is a front elevation of the window screen. Fig. 3 is a horizontal sectional view of one side of the screen, taken substantially on the line 3—3 of Fig. 1. Fig. 35 4 is a detail perspective view of one corner of the screen, illustrating the manner of engaging the same with and disengaging it from a headed fastening device. Fig. 5 is a perspective view of one side of the screen, illustrating another form of the invention. Figs. 6 and 7 are detail perspective views, 40 illustrating two ways of applying the invention to a screen having an ordinary wooden frame.

Like numerals of reference designate corresponding parts in all the figures of the drawings. 50

In the embodiment of the invention illustrated in Figs. 1 to 4 inclusive, 1 designates a window screen, equipped with a frame 2, consisting of bars of rolled metal and provided in its sides at its top and bottom with 55 upper and lower slots 3 and 4, preferably ar-

ranged at a slight inclination and provided at their lower ends with entrances, consisting of relatively short vertical slots 5, connected with the lower terminals of the inclined slots 3 and 4 by short horizontal slots or branches 6, extending from the relatively short vertical slots at points intermediate of the ends thereof. The inclined slots 3 are formed in the side portions of the rolled side bars or members of the screen frame, and the short vertical slots 5 are cut or otherwise formed in the front portion of the roll. These entrance slots permit the window screen to be readily engaged with and disengaged from upper and lower nails 7 and 8. The screen 1 is preferably applied to the strips or beads 9, which form the outer sides or walls of the guides or ways, and in applying the screen to the window the former is arranged between the strips or beads 9 and the passages of the upper and lower nails are marked. The screen is then removed and the nails are driven in at the marks previously made, sufficient portions of the nails being left projecting to engage with the upper and lower slots of the window screen. 60 65 70 75 80

In order to enable the screen to be unhooked at the top and swing outward without disengaging the lower portion of the window screen from the window frame, the lower slots 4 are made sufficiently long to enable the screen to be raised the distance necessary to bring the entrance of the upper slots opposite the upper nails. The inclination of the slots assists in raising the frame from any frictional engagement of the upper sash, and at the same time causes a tight engagement or fit between the screen and the upper sash when the screen is closed. The entrance slots of the upper slots will permit the outward movement of the upper portion of the screen, and any flies on the latter may be readily driven out of the window. The upper portion of the window screen may also be readily reengaged with the upper headed fastening devices without unhooking the bottom of the screen, as it is necessary to lift the latter a considerable distance in order to disconnect it from the lower fastening devices. The lower fastening devices form pivots or pintles for the bottom portion of the window screen when the top of the latter is swung outwardly or inwardly. 85 90 95 100 105 110

In Fig. 5 of the drawings, the invention is shown applied to a screen 10, having a

frame 11 constructed of angle metal and provided at the sides with upper and lower slots 12 and 13, arranged at a slight inclination and having horizontal entrance slots 14 and adapted to be engaged with upper and lower headed fastening devices. The lower inclined slots 13 are longer than the upper slots to permit the screen to be disconnected at the top in the manner before explained.

10 In Fig. 6 of the drawings, the invention is shown applied to the wooden frame 15 of a screen 16 by means of a metallic plate 17. The plate 17 is arranged at the lower portion of the screen, and the corresponding
15 plate is applied at the upper portion of the screen, the arrangement of the slots being similar to the slots 12 and 13 of the frame 10. The plate 17 is secured by screws 18 in a recess of the wooden frame to arrange it
20 in flush relation with the same, and the wooden frame is provided in rear of or at the inner face of the plate 17 with a recess 19, extending inwardly from the inner face of the side of the screen frame and adapted
25 to permit the head of a nail, or other fastening device to be readily introduced into and removed from the horizontal slot 20 at the lower portion of the plate 17. The improvements may, however, be applied to a
30 wooden frame without the use of a metallic frame by providing a vertical recess 21 in the upper and lower portions of the sides of the frame and slotting the outer side wall of the recess to provide a lower transverse
35 entrance portion 22 and an inclined longitudinal portion 23. The slots shown in both Figs. 6 and 7 are the long slots at the bottom of the screen, and the upper portions
40 of the screens will be provided with corresponding short slots to permit the top portion of the screen to be disengaged and swung outward from the window frame.

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

1. In combination with fixed top and bottom horizontal headed fastening devices arranged in pairs at opposite sides of a window, of a screen provided at opposite sides
50 of the top and bottom of its frame with upper and lower slots having entrances at their lower ends to permit the headed fastening devices to be introduced into the upper and lower slots for detachably securing
55 the screen in position, the lower slots being longer than the upper slots to permit the screen to be raised sufficiently to disengage the upper fastening device from the upper slots and to be swung outwardly at the top
60 without disconnecting the lower portion of

the screen from the window frame, the lower fastening devices forming pintles for the screen when the same is swung outwardly at the top.

2. In combination with fixed top and bottom horizontal headed fastening devices arranged in pairs at opposite sides of a window, of a screen provided at opposite sides of the top and bottom of its frame with upper and lower slots having entrances at their
65 lower ends to permit the headed fastening devices to be introduced into the upper and lower slots for detachably securing the screen in position, said slots being inclined downwardly and inwardly for causing the
70 screen to wedge itself against the window, and the lower slots being longer than the upper slots to permit the screen to be raised sufficiently to disengage the upper fastening
75 device from the upper slots and to be swung outwardly at the top without disconnecting the lower portion of the screen from the window frame, the lower fastening devices forming pintles for the screen when the
80 same is swung outwardly at the top.

3. In combination with fixed upper and lower horizontal headed fastening devices arranged in pairs at opposite sides of a window frame, of a screen having a frame composed of bars of rolled sheet metal and
90 provided in its opposite sides at the top and bottom with upper and lower inclined slots adapted to cause the screen when engaged with the fastening devices to wedge itself against the window, and having lower
95 entrances located at the lower ends of the slots and consisting of relatively short upright slots formed in the front portion of the sides of the screen frame, and short horizontal connecting slots or branches extending
100 from the lower ends of the inclined slots to the said short upright slots and connected with the latter at points intermediate of the ends thereof, the lower slots being longer
105 than the upper slots to permit the screen to be raised sufficiently to disengage the upper fastening devices from the upper slots and the screen to be swung outwardly without disconnecting the lower portion of the
110 screen from the lower fastening devices, which form pintles for the screen when the same is swung outwardly at the top.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

GEORGE W. COREY.

Witnesses:

CHARLES P. WAGNER,
FRANK G. MITCHELL.