H. M. DAY.

WINDOW SCREEN.

APPLICATION FILED NOV. 18, 1911.

1,030,979. Patented July 2, 1912.

Fig. 1.

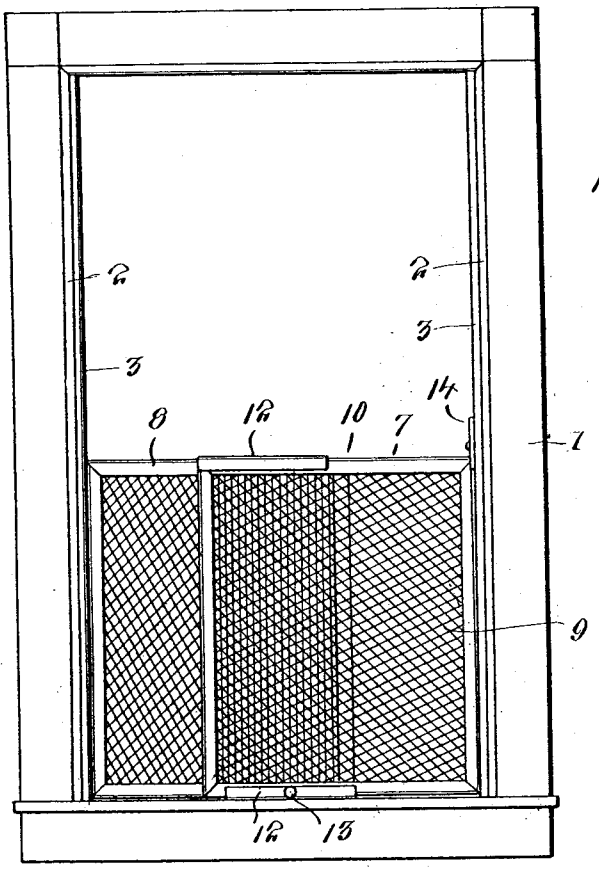


Fig. 3.

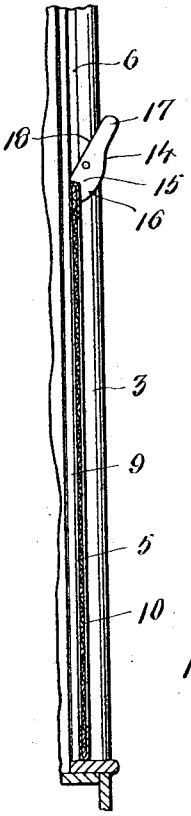


Fig. 4.

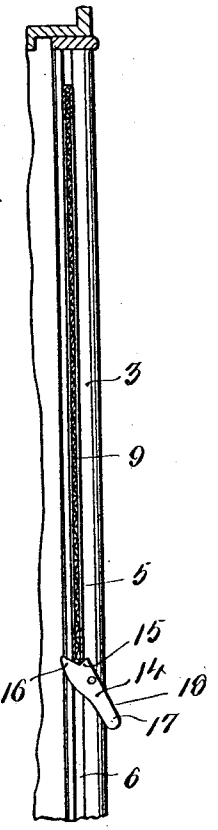


Fig. 2.

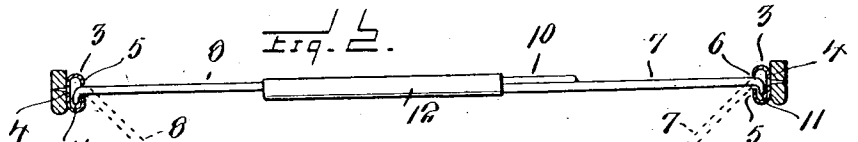


Fig. 5.

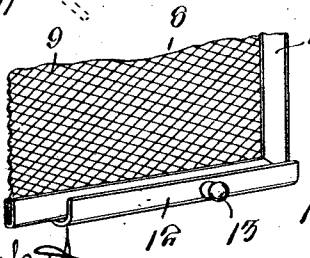
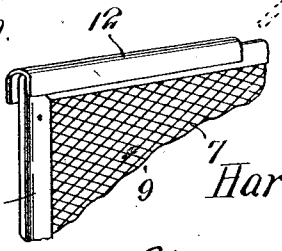


Fig. 6.



Witnesses

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WINDOW-SCREEN.

1,030,979. Specification of Letters Patent. Patented July 2, 1912.

Application filed November 18, 1911. Serial No. 661,090.

To all whom it may concern:

Be it known that I, HARRY M. DAY, a citizen of the United States, residing at New Richmond, in the county of Clermont and State of Ohio, have invented new and useful Improvements in Window-Screens, of which the following is a specification.

This invention relates to improvements in window screens and guides therefor, the object of the invention being to provide a sectional metallic screen which is adjustable for application to window frames of different widths, and is also adjustable to different positions upon the frame, so that it may be employed at the top or bottom of the frame, as desired.

A further object of the invention is to provide a window screen of the character described, the sections of which may be readily connected with and disconnected from each other, and also readily connected with and disconnected from the guides on the window frame, whereby the screen is adapted to be practically instantaneously mounted for use upon the window frame or removed therefrom.

A still further object of the invention is to provide a latch or stop device so constructed and arranged upon the window frame that it may be employed for limiting the upward or downward movement of the screen, accordingly as the screen is arranged for use at the lower or upper portion of the window frame.

The invention consists of the features of construction, combination and arrangement of parts hereinafter fully described and claimed, reference being had to the accompanying drawings, in which:—

Figure 1 is an inner elevational view showing the application of the invention to a window frame, the screen being arranged for use at the bottom of said frame. Fig. 2 is a horizontal transverse section through the window frame and screen. Fig. 3 is a vertical section through the window frame and screen illustrating the action of the stop device in limiting the upward movement of the screen. Fig. 4 is a similar view showing the screen disposed at the top of the window frame and the stop device in position to limit its downward movement. Figs. 5 and 6 are views of the screen sections.

Referring to the drawings, 1 designates a window frame, upon the inner sides of the jambs 2 of which are secured channeled guides 3. These guides are preferably formed of strips of sheet metal, having perforated body portions 4 for the passage of fastenings to secure the same to the window frame, and inturned free edges 5 arranged to form the channeled guide-way and a longitudinal guide slot 6 communicating therewith. The guides may extend the full height of the window frame, between the center and top of the frame or center and bottom of the frame, accordingly as it is desired to adapt the screen to be used either at the top or bottom of the frame, or in one or the other of such positions.

The screen comprises two sections 7 and 8, each consisting of a woven wire body 9, and a metallic frame 10, said frame being preferably formed of one or more pieces of sheet metal folded to receive and engage the edges of the woven material. The outer side of the frame of the screen is provided with a guide flange 11 extending at an oblique angle thereto, said flanges being arranged to engage the channeled guides 3, whereby the screen is slidably fitted in position upon the window frame for adjustment in the manner described.

Each screen section is provided with a guiding and retaining flange 12, said flanges being respectively arranged at the bottom and top of said screen sections. The flange 12 upon the screen section 8 projects outwardly and upwardly and engages the lower edge of the screen section 8, while the flange 12 upon said screen section projects inwardly and downwardly and engages the upper edge of the screen section 7, the construction being such that the screen may be adjusted as to width to suit any width of window frame within its limit of adjustments. A finger piece or knob 13 is provided upon the retaining flange of the screen section 8 to permit the screen as a whole to be readily and conveniently adjusted upward or downward in the guides. Pivotally mounted upon one of the guides is a latch or stop device 14 having a notched end forming a stop shoulder 15 and a retaining shoulder 16. Said stop device is also provided with a finger piece 17 and has a flat side 18 arranged so that when the stop device is turned to vertical position the stop shoulder will lie out of the path of the screen allowing it to be adjusted either upward or downward. The stop device is eccentrically pivoted so that the stop and

retaining shoulders may be adjusted to an operative position to hold the screen against either upward or downward movement, as when it is arranged for use at the bottom or top of the window frame.

The screen sections may be independently applied to the respective guide-ways by disposing said screen sections at an angle with relation to the window frames and inserting their guide flanges within the channeled guides, and then bringing the screen sections to a parallel position, after which by relative upward and downward movements of said screen sections they will be brought into locking engagement with the guide and retaining flanges 12. The screen may be removed by sliding the sections vertically apart and then swinging them at an angle to withdraw their guide flanges from engagement with the channeled guides, as will be readily understood. It will thus be seen that the screen may be readily and conveniently applied to and removed from a window frame of any given width, and the sections of the screen quickly assembled or disassembled, and that the screen may be employed at either the bottom or top portion of the window, the conveniences of which will be manifest.

Having thus described my invention, what I claim as new is:—

1. A window screen comprising two screen sections, provided at their outer side edges with guide flanges projecting substantially at an oblique angle thereto, one of said sections having an outwardly and upwardly extending guide and retaining flange at its lower edge and the other an inwardly and downwardly extending guide and retaining flange at its upper edge, whereby the sections are adapted to be slidably connected for adjustment as to width and coupled and uncoupled by relative vertical movement toward and from each other.

2. The combination with a window frame, of channeled guides upon the side of the window frame, and a screen comprising two sections having obliquely arranged guide flanges at their outer edges engaging said adjacent guides, and provided with guide retaining flanges slidably connecting said sections for transverse adjustment and vertical coupling and uncoupling movements.

3. The combination with a window frame, of metallic strips secured to the sides of the window frame and bent to provide channeled guides having longitudinal entrance slots arranged at right angles to the plane of the sides of the frame, and a screen comprising two screen sections, one of said sections being provided with an outwardly and upwardly-extending guiding and retaining flange at its lower edge, and the other screen section being provided with an inwardly and downwardly extending guiding and retaining flange at its upper edge, whereby said sections are slidably connected for adjustment as to width and adapted to be coupled and uncoupled by relative vertical movement, said sections being provided at their outer vertical edges with flanges bent obliquely to the plane thereof for engagement with said channeled guides, whereby said sections are adapted to be fitted in and withdrawn from the guides by adjusting them to a position at an angle to the plane of the guides.

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

HARRY M. DAY.

Witnesses:
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents. Washington, D. C."