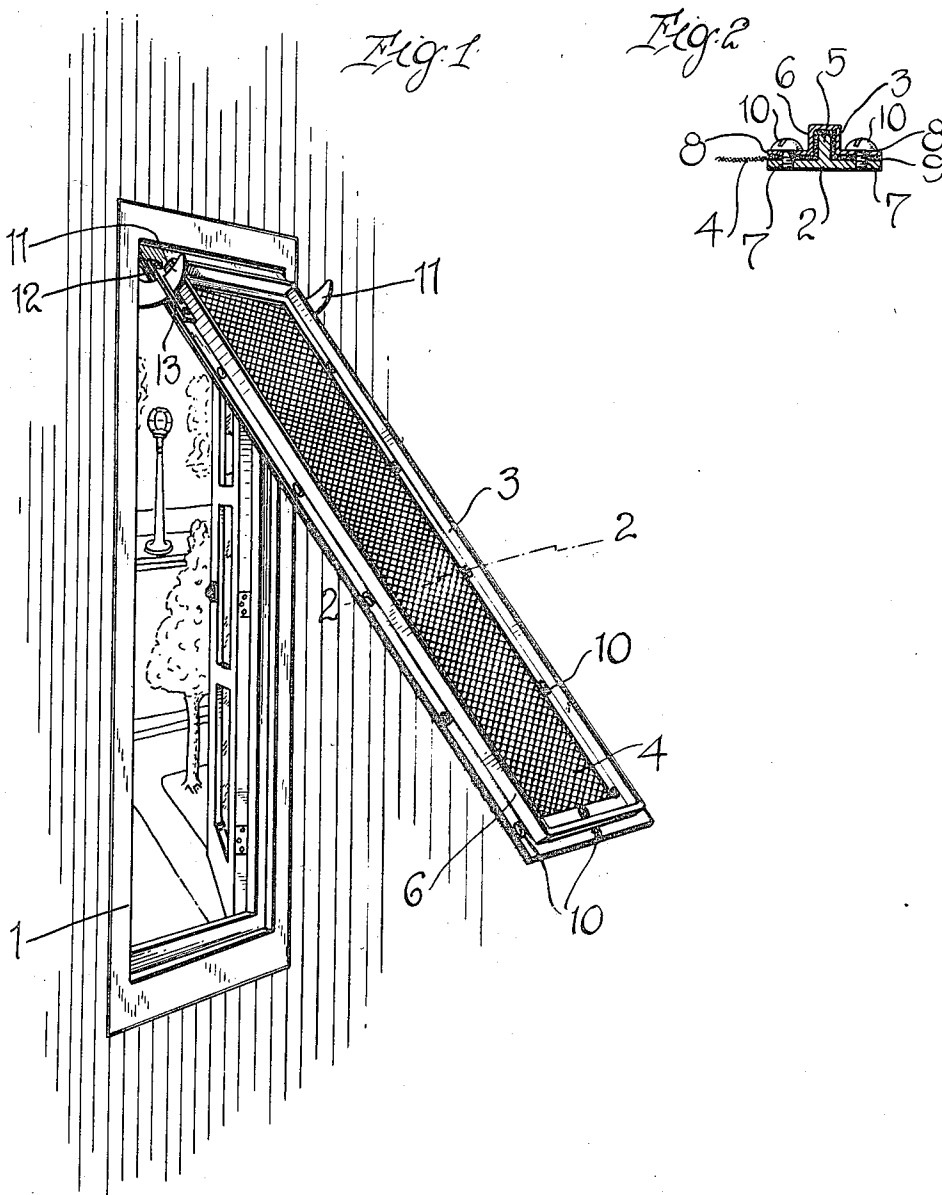


E. J. FAIRES.
SCREEN.
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1,148,764.

Patented Aug. 3, 1915.



Witnesses
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ELISHA J. FAIRES, OF MCKINNEY, TEXAS, ASSIGNOR OF ONE-HALF TO FRANCIS D. HAGAN, OF MCKINNEY, TEXAS.

SCREEN.

1,148,764.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ELISHA J. FAIRES, a citizen of the United States, residing at McKinney, in the county of Collin and State of Texas, have invented certain new and useful Improvements in Screens, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to new and useful improvements in screens, and an object of this invention is the provision of a door or window screen which is constructed entirely of metal.

Another object of this invention is the provision of a screen which comprises a main frame and a clamping frame, and wire netting being adapted for engagement over the main frame, the clamping frame being adapted for engagement against the netting, means being provided to crimp the netting between the frames so that movement of the netting relative to the frames is prevented.

A still further object of this invention is the provision of a screen which comprises a main frame, and a clamping frame, the sides and ends of the main frame having medial longitudinal ribs formed thereon, and the sides and ends of the clamping frame having grooves formed therein, the wire netting being adapted for engagement between the main frame and the clamping frame, so that when the clamping frame is secured to the main frame portions of the netting are forced into the grooves of the ribs of the main frame, whereby slipping or warping of the netting is prevented.

With these and other objects in view, my invention consists in the novel construction, combination, and arrangement of parts, to be hereinafter more fully described, claimed, and illustrated in the accompanying drawing, in which—

Figure 1 is a perspective view of a screen constructed in accordance with my invention showing the same applied to use; Fig. 2 is a sectional view on the line 2—2 of Fig. 1.

Referring more particularly to the drawing, the numeral 1 designates a window frame within which my improved screen is adapted for engagement, the screen including a main frame 2 and a clamping frame 3 between which the wire netting 4 is secured. The sides and ends of the main frame 2 are formed with medial longitudi-

nally extending ribs or flanges 5, whereby the sides and ends of the main frame are substantially T-shaped in cross section. The sides and ends of the clamping frame 3 are provided with medial longitudinally extending bulged portions 6, whereby grooves are formed in the clamping frame to receive the ribs 5 of the main frame when the same are connected together. The main frame is provided with a plurality of threaded openings 7 therein on opposite sides of the ribs 5, and the clamping frame 3 is also provided with circular openings 8 which register with the openings 7 of the main frame, and the edges of the wire netting 9 are disposed between the frames of the screen. When it is desired to clamp the netting between the frame, fastening screws 10 are passed through the openings 8 in the frame 3 and into threaded engagement with the openings 7 in the main frame, so that the ribs 5 are forced into the grooves in the clamping frame, whereby the portions of the netting engaged by the ribs are crimped, thereby stretching the netting 9 and clamping the edges of the same tightly between the frames, so that slipping or warping of the netting is prevented.

In a screen constructed in accordance with my invention used in connection with windows, a pair of hooks 11 are secured to the inner faces of the sides of the window frame adjacent its upper edge, the hooks being curved upwardly and extending into the room as shown in the drawing, and secured to the sides of the screen adjacent its upper end are plates 12, the edges of which project beyond the opposite side edges of the screen, and having elongated slots 13 formed in their projecting portions, the hooks being adapted for engagement through the slots 13 whereby the screen is hung in operative position to close the window.

It will be seen that with this construction, the screen may be readily hung in position over the windows from the interior of a house, it being merely necessary to engage the slotted plates over the extremities of the hooks and allowing the screen to move to its closed position by gravity, the weight of the screen holding the same in closed position.

It will of course be readily understood that screens constructed in accordance with my invention may be used to close door

openings, by merely hingedly connecting one side of the main frame to one side of the door frame, and using the screen door in the ordinary manner.

5 Should the wire netting secured between the frames become worn, the same may be readily removed by removing the screws 10 from engagement with the threaded openings 7 in the main frame, whereby a new
10 section of netting may be placed between the frames and secured therebetween by clamping the frame 3 to the main frame by the screws 10.

It will be seen that when the clamping
15 frame is forced against the main frame, the wire netting is stretched by forcing the portions of the wire netting which engage the ribs 5 into the grooves in the clamping frame, whereby warping of the netting or
20 slipping of the same with relation to the frames is prevented.

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

25 A window screen comprising a main frame, the sides and ends of said frame having longitudinally extending ribs formed

thereon and arranged centrally between the side edges of said sides and ends, a clamping
30 frame of substantially the same shape as the main frame having grooves formed in the sides and ends thereof, said grooves being disposed centrally between the side edges of the clamping frame and adapted to receive
35 the ribs upon the main frame, a section of fabric having its edges disposed between the sides and ends of said frames whereby when said frames are secured together, the edges of said fabric will be securely clamped
40 between the two frames, the clamping frame being adapted, when urged into operative position, to stretch the fabric both transversely and longitudinally, and means passing
45 through the clamping frame and engaged with the main frame whereby to removably retain the clamping frame in its effective position.

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

ELISHA J. FAIRES.

Witnesses:

L. C. CLIFTON,
J. R. HALEY.