

May 10, 1932.

R. FOCARACCI

1,857,717

HINGE FOR WINDOW SCREENS

Filed Oct. 25, 1930

2 Sheets-Sheet 1

FIG. 1

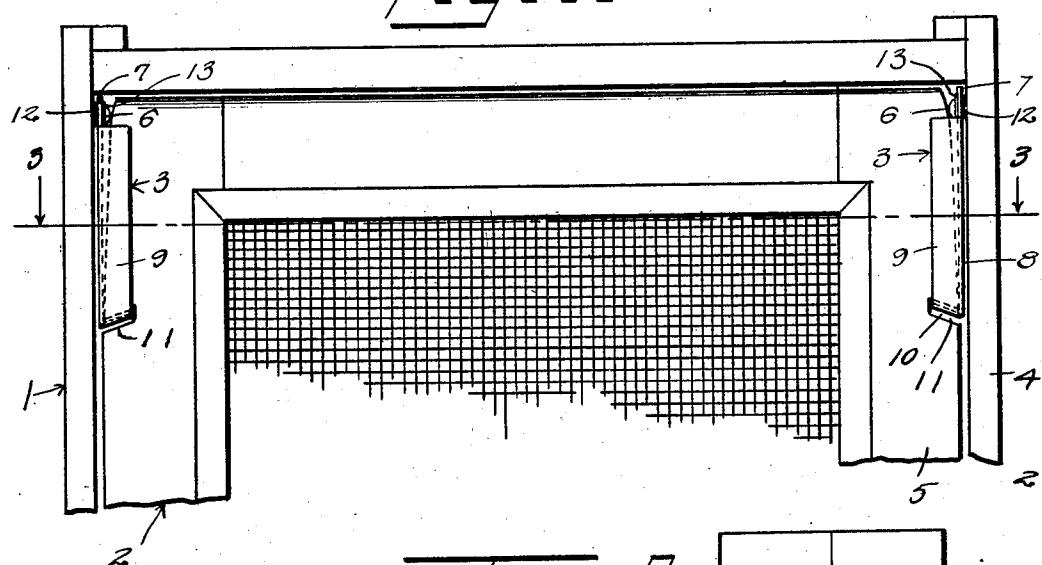
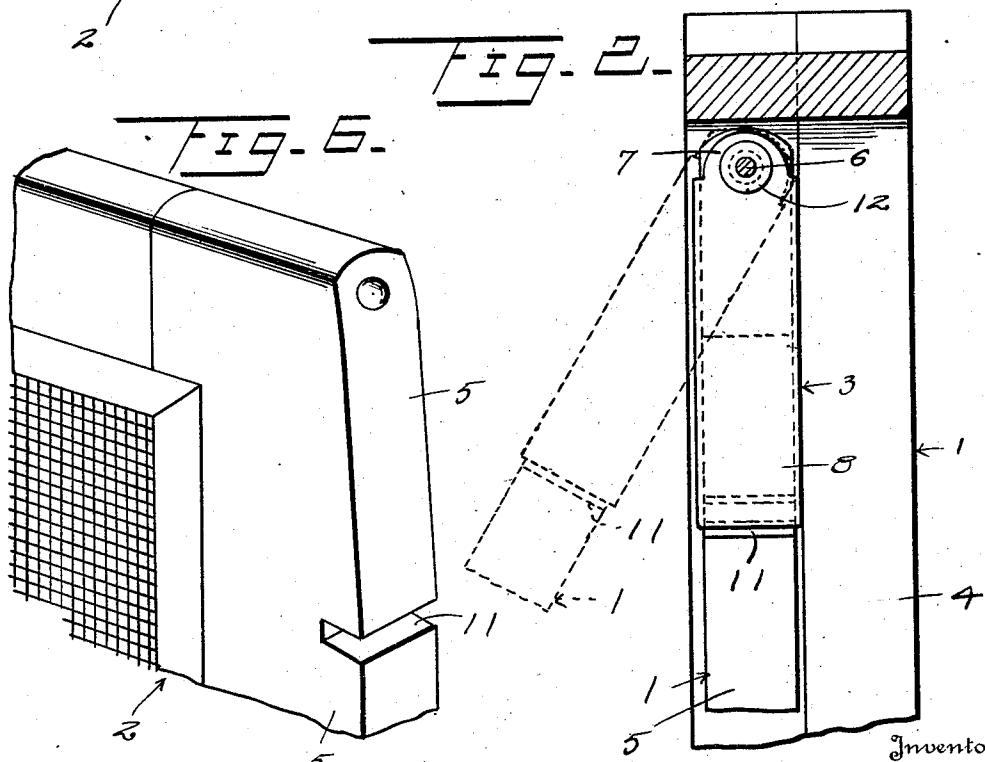


FIG. 2



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FIG. 3.

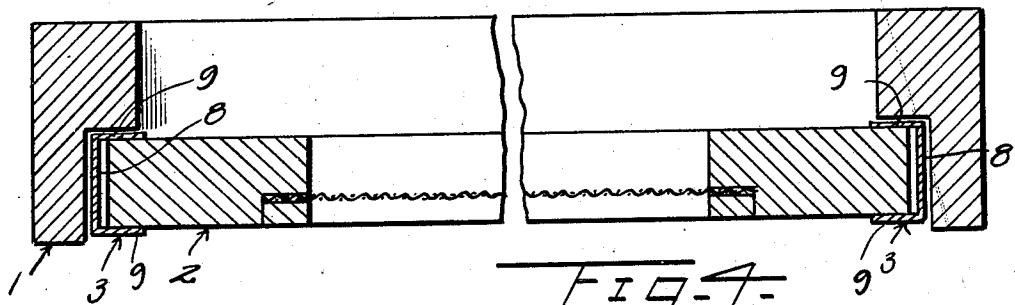


FIG. 4.

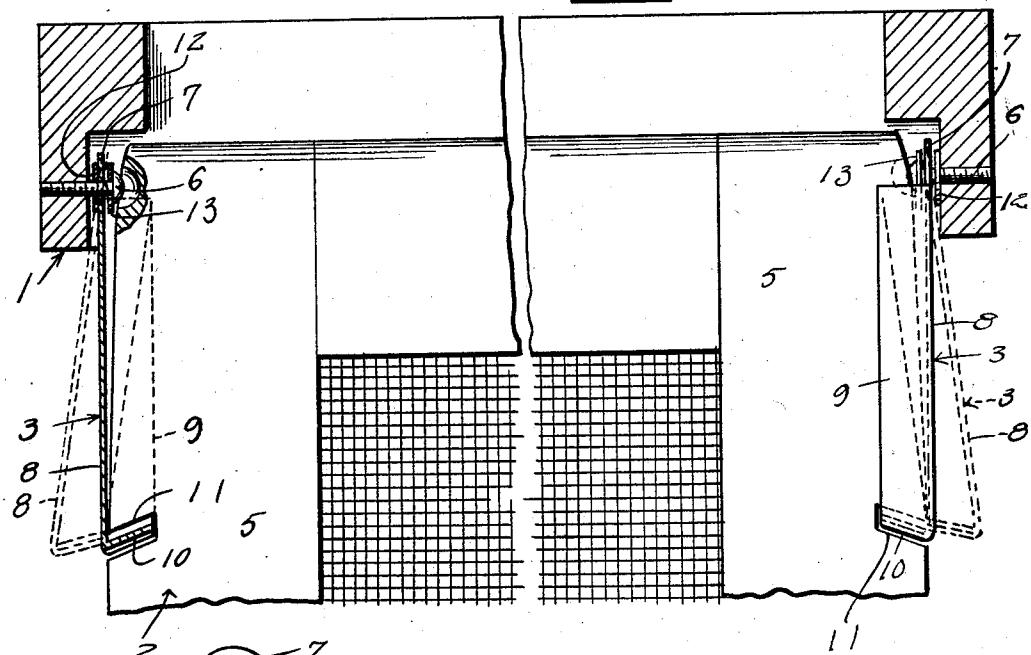
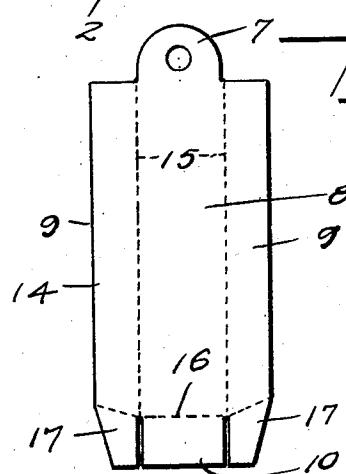


FIG. 5.



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UNITED STATES PATENT OFFICE

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HINGE FOR WINDOW SCREENS

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This invention relates to hinges for hanging window screens of the full length or that type equal in width and length to the window frames to which they are to be applied, and has for one of its objects to provide a hinge of this character which shall be adapted to permit a screen of this type to be hung with its top rail close to the head and its stiles close to the sides of a window frame.

The invention has for a further object to provide a hinge of the character stated which shall be adapted to be secured to a side of a window frame by a single element functioning as its pivot and which shall be adapted to be secured to a stile of a screen without the aid of nails, screws or the like.

The invention has for a further object to provide a hinge of the character stated which shall be adapted to permit a screen to be readily engaged therewith after it has been secured to a window frame and which shall be adapted to permit the screen to be readily disengaged therefrom without disconnecting it from the window frame.

The invention has for a further object to provide a hinge of the character stated which shall be neat and highly attractive and which shall be simple and capable of being manufactured and sold at a comparatively low cost.

With the foregoing and other objects in view, the invention consists in the construction, combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawings, wherein:

Figure 1 is a view in front elevation illustrating the manner in which a screen is adapted to be hung in a window frame by hinges constructed in accordance with my invention.

Figure 2 is a sectional view taken on a vertical plane indicated by the line 2—2 of Figure 1.

Figure 3 is a sectional view taken on the horizontal plane indicated by the line 3—3 of Figure 1.

Figure 4 is a view similar to Figure 3 with the screen occupying an outwardly extended

position with respect to the window frame.

Figure 5 is a plan view of the blank from which the hinge is formed, and

Figure 6 is a perspective view of a fragmentary upper end portion of the screen.

Referring in detail to the drawings, 1 designates the upper portion of a window frame, 2 the upper portion of a screen equal in width and length to the frame, and 3 the hinges by which the screen is hung in the frame.

The hinges 3 are located between the sides 4 of the frame 1 and the stiles 5 of the screen 2, and are pivoted at their upper ends, as at 6, to the sides 4. The hinges 3 extend downwardly from their pivots 6 which may consist of nails, screws or the like. The hinges 3 are of channel formation, and are open at their upper and closed at their lower ends. Ears 7 extending upwardly from the outer or side walls 8 of the hinges 3, are provided for the reception of the pivots 6.

The hinges 3 receive the outer edge portions of the stiles 5, their side walls 8 contacting with the outer edges of the stiles, their front and rear walls 9 contacting with the front and rear faces of the stiles, and their end walls 10 constitutes lugs fitting in notches 11 formed in the stiles. The walls 10 extend upwardly and inwardly from the side walls 8, and the notches 11 extend upwardly and inwardly from the outer edges of the stiles 5 so that the engagement between the walls 10 and notches 11 will be such as to hold the hinges 3 against outward movement from the screen 2 especially when the screen has

swung outwardly from the frame 1. To insure the free movement of the hinges 3 on the pivots 6, washers 12 are mounted upon the pivots between the ears 7 and frame sides 4 and washers 13 are mounted upon the pivots between the heads thereof and the ears.

Each of the hinges 3 is adapted to be struck up from a single blank of sheet metal of suitable gage, the blank being shown in Figure 5 and designated 14. In forming the hinge 3 from the blank 14, the latter is bent along the dotted lines 15 and 16 to provide the hinge walls 8, 9 and 10. The walls 9 are provided with extensions or tongues 17 which are folded against the lower side of the wall 100

10 so as to hold such wall against downward deflection by the weight of the screen 2. The blank 14 is provided at one end with an apertured extension which forms the ear 7.

5 In practice, the hinges 3 are pivotally secured to the sides 4 of the window frame 1 through the medium of the elements 6, the screen 2 is then provided with the notches 11, and thereafter the screen is engaged with the 10 hinges. By swinging the hinges 3 outwardly from the window frame 1 and deflecting them laterally, as suggested by dotted lines in Figure 4, the upper end portion of the screen 2 may be positioned between the 15 hinges. After this has been done, the hinges 3 are moved into engagement with the screen 2, and thereafter the screen is swung into the window frame 1. The hinges 3 occupy but little space between the window frame 1 and 20 screen 2, and the upper edge portions of the stiles 5 of the screen may be cut away to facilitate the application of the screen to the hinges. While the hinges 3 are engaged with the screen 2 in a manner to prevent the screen 25 from becoming accidentally detached therefrom while within the frame 1 and while in angular position with respect to the frame, the hinges may be readily disengaged from the screen when it is desired to remove the latter, and this may be done by first swinging the screen outwardly from the window frame 1, and then deflecting the hinges into the dotted line position in which they are shown in Figure 4.

30 85 While I have described the principle of the invention, together with the structure which I now consider the preferred embodiment thereof, it is to be understood that the structure shown is merely illustrative and 40 that such changes may be made, when desired, as fall within the scope of the invention as claimed.

What is claimed is:—

45 A hinge for connecting a movable frame to a fixed frame, comprising a channel member adapted to receive a stile of the movable frame and adapted to have the upper end of its side wall pivoted to the fixed frame, a lug extending upwardly and inwardly from the 50 lower end of said wall and adapted to be embedded in said stile to secure said member to and hold it against lateral displacement from the stile, and extensions carried by the lower ends of the front and rear walls of said member and underlying and contacting with said lug and adapted to be embedded in said stile.

55 In testimony whereof I hereunto affix my signature.

RALPH FOCARACCI.