Nov. 17, 1925. 1,562,055

G. E. RICHARDS

ADJUSTABLE SCREEN DOOR

Filed April 24, 1924

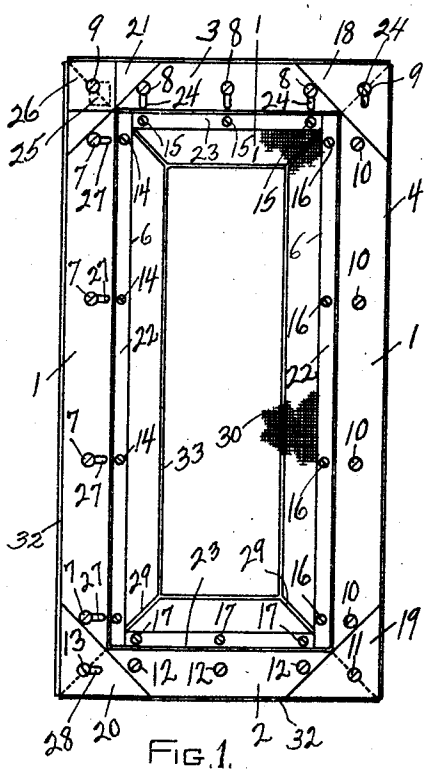


FIG. 1.

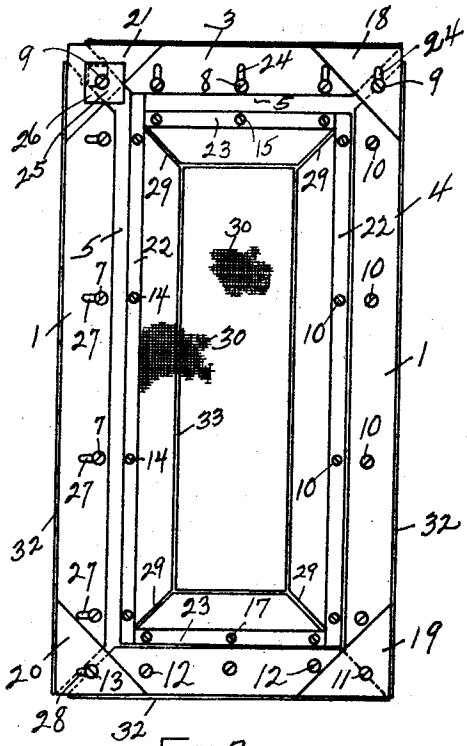


FIG. 2.

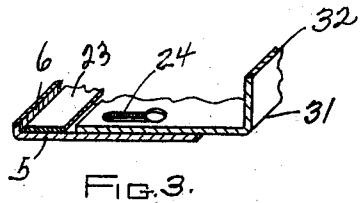


FIG. 3.

Grover E. Richards
INVENTOR

BY C. A. Harpman
ATTORNEY

Patented Nov. 17, 1925.

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UNITED STATES PATENT OFFICE.

GROVER E. RICHARDS, OF YOUNGSTOWN, OHIO.

ADJUSTABLE SCREEN DOOR.

Application filed April 24, 1924. Serial No. 708,690.

To all whom it may concern:

Be it known that GROVER E. RICHARDS, citizen of the United States of America, residing at Youngstown, in the county of Mahoning and State of Ohio, has invented certain new and useful Improvements in Adjustable Screen Doors, of which the following is a specification.

This invention relates to adjustable screen doors and may be used in the construction of window screens.

The principal object of this invention is to provide a device of this class, which will be capable of adjustment to fit openings of various sizes.

Another object of this invention is to provide a device of this kind constructed preferably of metal. This invention also consists in certain other features of construction, and in the combination and arrangement of the several parts which will be hereinafter fully described and illustrated in the accompanying drawings, and specifically pointed out in the appended claim.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a front view of the device.

Figure 2 is a front view of the device showing an adjustment so as to cause the same to be wider and longer.

Figure 3 is a detailed perspective sectional view taken on line 1—1 of Figure 1.

By referring to Figure 1, it will be seen that a reference 1 indicates the side portions 1 of a rectangular frame. The end portions 2 and 3 fitting and co-acting with the reference 1 in order that the screen frame 4 may be adjusted.

By referring to Figure 3, it will be seen that there is a frame member 5 with an upturned inner flange 6. This frame member 5 is rectangular in shape, and furnishes means for the bolts 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, and 17 to hold the frame portions 1, 2 and 3 together with the triangular corners 18, 19, 20, and 21, also the wire mesh securing strips 22, and 23. In order that the screen frame 4 may be adjustable, the end portion 3 may be slid upwardly by loosening the bolts 8 and 9 and allowing the end portion 3 and the triangular corners 18 and 21 to move upwardly, due to the slots 24, and the squared portion 25. The squared opening 25 is covered by a square 26 which allows for a movement both outwardly and upwardly in order that the right side portion 1 may be slid outwardly by releasing the bolts 7 and 13, thereby allowing the bolts to slip in the slots 27 and 28. There is secured to the rectangular frame 5, an inner rectangular frame 33, which is supported by corner arms 29 in order to strengthen the entire device, and to reinforce a wire mesh 30 which is held by means of the wire mesh securing strips 22 and 23.

By referring to Figure 2, it will be seen that the screen frame 4 has been extended in order to widen and lengthen the same by bringing the right side portion 1 outwardly and the end portion 3 upwardly. It will be seen that the corners are filled out by the triangular corners 18, and 20 and the square 26.

By referring to Figure 3, it will be seen that the outer edges 31 are provided with a flange 32 in order to give strength and proportion to the device.

What I claim is:

In a device of the class described, a screen support frame, a side member and an end member of said frame detachable, a side member and an end member attached to said support frame in a detachable and slidable manner, triangular corner pieces detachably arranged in each corner, two triangular corner pieces provided with a slot for adjustment of frame and to cover open corners when frame is enlarged, a triangular corner piece formed with a squared opening, means for securing wire mesh to the interior portion of said frame, an inner rectangular frame with corner arms to support said inner rectangular frame, substantially as described for the purpose set forth.

In testimony whereof I affix my signature.

GROVER E. RICHARDS.