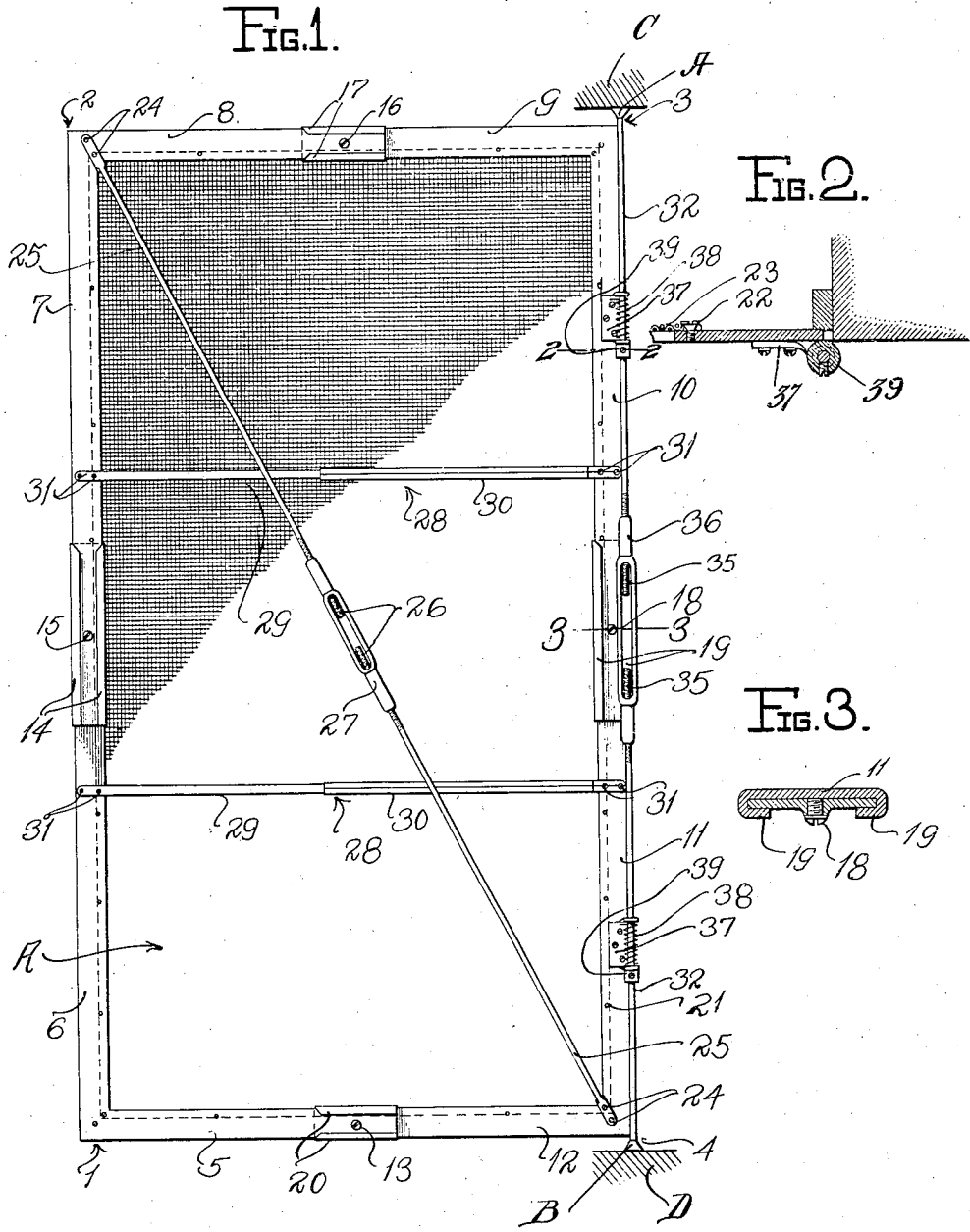


S. A. NELSON.
 ADJUSTABLE SCREEN DOOR.
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1,235,152.

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ADJUSTABLE SCREEN-DOOR.

1,235,152.

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To all whom it may concern:

Be it known that I, SWAN A. NELSON, a citizen of the United States, residing at Tunnelhill, in the county of Cambria and State of Pennsylvania, have invented certain new and useful Improvements in Adjustable Screen-Doors, of which the following is a specification.

My invention relates to screen doors and more particularly to that type of screen door which it is possible to adjust for various sizes of door openings.

One object of the present invention is to provide a screen door of the above mentioned character which consists of a plurality of parts adapted to be interfitted with each other and secured in such a manner as to form a rectangular frame adapted to receive the wire mesh.

Another object of the present invention resides in providing a door of the above mentioned character which is cheap to manufacture due to the fact that, by reason of the employment of peculiar bracing means, the materials employed may be exceptionally light and yet the door will be unusually strong.

A further object resides in the provision of means carried by one edge of the door and adjustable with the frame and providing means to mount the door in the door opening without screws.

With the above and other objects in view, I will now proceed to describe the specific embodiment of the present invention, which, by way of illustration only, I have shown in the annexed drawings forming a part herewith and wherein:

Figure 1 is a plan view of the completed door.

Fig. 2 is a sectional view on the line 2—2 of Fig. 1, and

Fig. 3 is a sectional view on the line 3—3 of Fig. 1.

In detail:

The door comprises a frame A of rectangular construction and which consists of four right angle members 1, 2, 3 and 4 having legs 5, 6, 7, 8, 9, 10, 11 and 12, respectively. Considering first the portion 1, the leg 5 thereof has a plain end provided with a drill hole adapted to receive a screw 13 and the leg 6 thereof is provided at its end with the overturned flanges 14 which form a channel.

The portion 2 comprises the legs 7 and 8,

both of which are plain and each end of which is provided with screws 15 and 16, respectively.

The portion 3 is provided with the two legs 9 and 10, the former of which has flanges 17 turned over to form a channel and the latter of which is plain and provided with a screw 18.

The portion 4 comprises legs 11 and 12, the former of which is provided with flanges 19 turned over to form a channel and the latter of which is provided with flanges 20 turned over to form a channel. These four portions are assembled by disposing the plain ends of the various legs in the channels of the flanged ends and tightening the screws 13, 15, 16 and 18 so that the said portions are held in any adjusted assembled relation with respect to each other. It will be evident that by loosening the screws hereinbefore enumerated, the width and length of the door frame may be varied to suit the size of the door opening. Disposed around the inner periphery of the frame are a number of screw holes or the like 21 which are provided to receive screws 22 which hold the wire mesh or fabric 23 to the frame. Diagonally across the frame and attached as shown at 24 to the corners of the portions 2 and 4 of the frame are two rods 25 each having adjacent threaded portions 26 oppositely threaded and receiving the turnbuckle 27 so that when the frame is assembled, this turnbuckle may be tightened and the door may be braced by the rods 25. Transversely of the door and connecting opposite sides of the frame are the telescoping braces 28 each of which consists of two members 29 and 30 in telescoping relation and secured to the door frame as shown at 31 by any suitable means.

Along one edge of the door are two rods 32 and 33, the adjacent ends of such rods being oppositely threaded as shown at 35 to provide for a turnbuckle 36 and when the width of the door is varied, this member extending along one edge thereof may be also adjusted. This rod carries the leaves 37 which secure the said door to the casing and which swing on the adjustable rods 32 and 33 as pintles and springs 38 are provided to tension the movement of the door upon the leaves. Stops 39 are located suitably to prevent the longitudinal displacement of the door with respect to the hinges and thus the door may be adjusted longi-

tudinally of the fixed position of the hinges to permit it to swing easily and free of the threshold or top place of the door frame.

To locate the door in a doorway the door is held in the proper position and the turn-buckle 36 is moved so as to expand the feet A and B against partitions C and D respectively. In this way the doorway is secured in place without screws.

It will be seen from the foregoing that I have provided a screen door frame which is easily manufactured, assembled and applied and, while I have herein shown one specific embodiment of the present invention it is nevertheless to be understood that, in practice, I may resort to such practical modifications and variations of the present design as fall within the scope of my invention as defined in the appended claims.

I claim:

1. The combination in a screen door of a plurality of frame members telescopically assembled to form a rectangular configuration, adjustable means for diagonally and transversely bracing such frame, and adjustable means along one side of said frame and carrying hinges.

2. In a door, a frame having longitudinally and laterally adjustable sides and ends, respectively, a longitudinally adjustable rod disposed parallel with one side of

said frame, and hinge plates carried by said rod.

3. In a door, a frame having longitudinally and laterally adjustable sides and ends, respectively, a diagonally disposed longitudinally adjustable rod carried by said frame, a side rod secured at its ends to the upper and lower ends of said frame, means for adjusting said rod longitudinally, hinge plates pivotally carried by said rod, and stops on said rod for limiting the longitudinal movement of said plates.

4. A door comprising a plurality of sections each having angularly disposed bars to slidably receive the ends of the bars of the next adjacent sections, screws for holding said sections in adjusted positions, a longitudinally adjustable rod disposed diagonally across said door and being connected at its ends to certain of said sections, a longitudinally adjustable rod secured to one side of said door, and hinge leaves carried by said rod.

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

SWAN ALLEN NELSON.

Witnesses:

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LOUIS BLOMBERG.