Jan. 6, 1953 O. E. LYNCH 2,624,405

TWO-WAY ADJUSTABLE SCREEN

Filed Nov. 2, 1950

Fig. 1

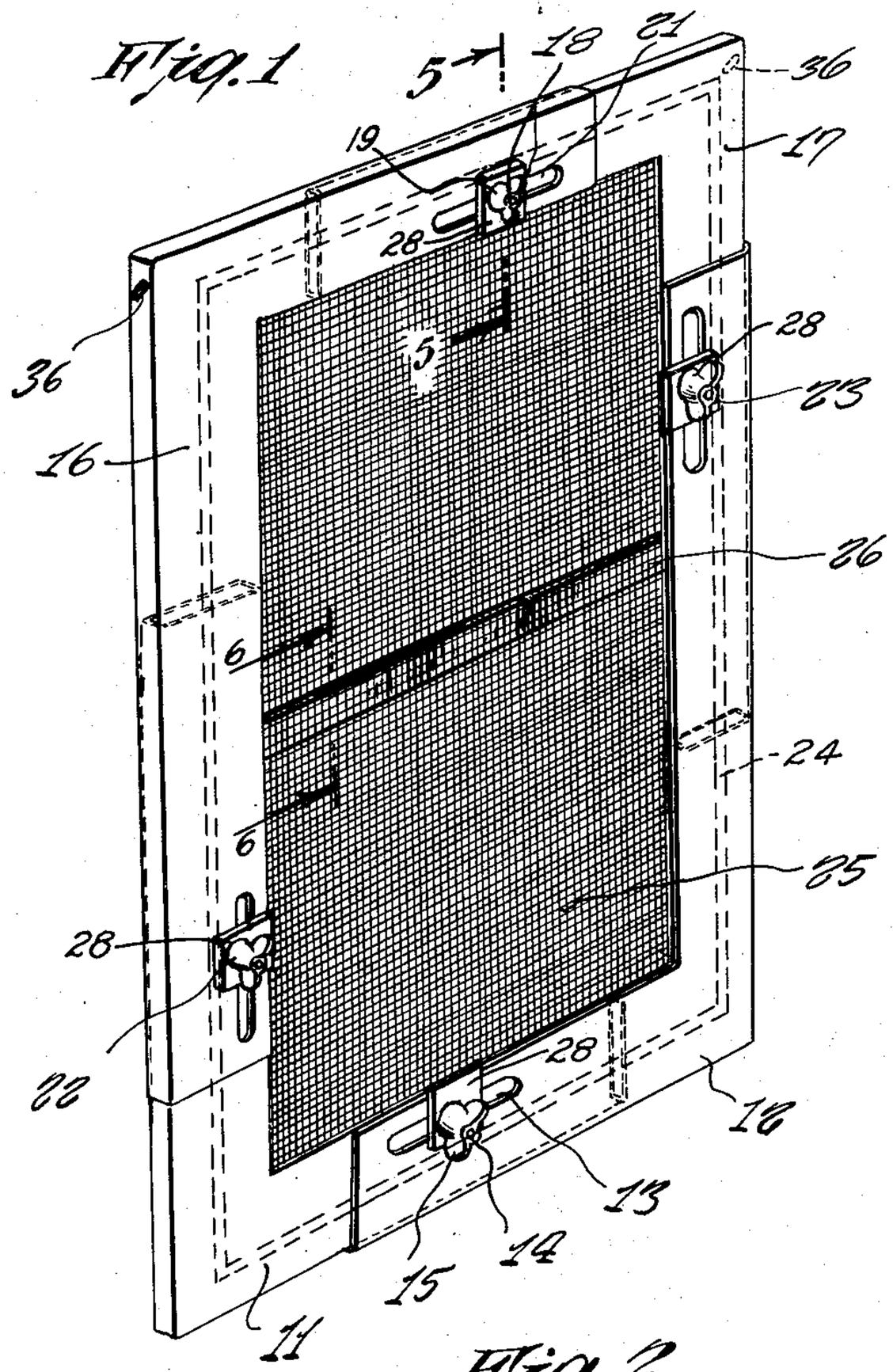


Fig. 2

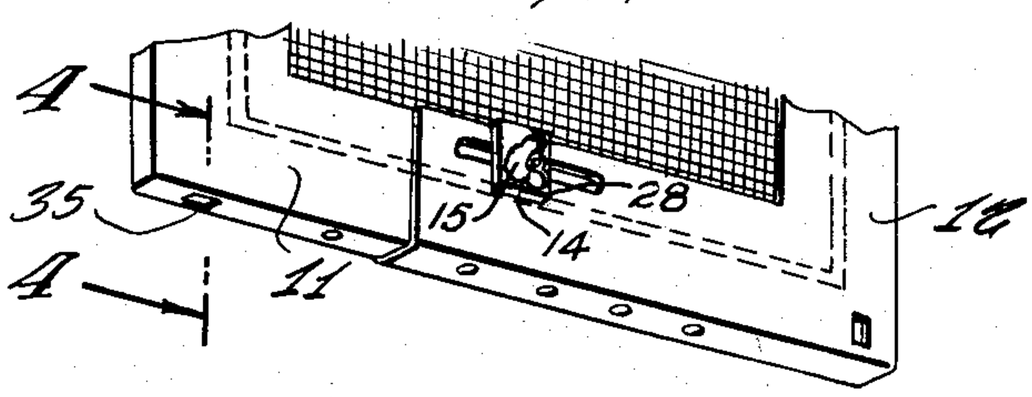


Fig. 3

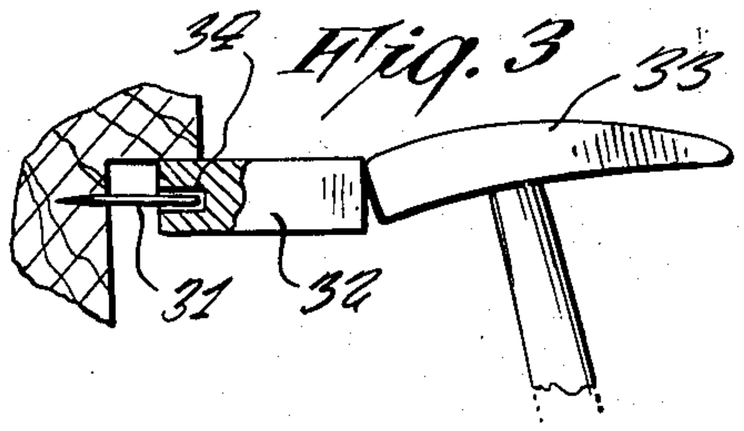


Fig. 4

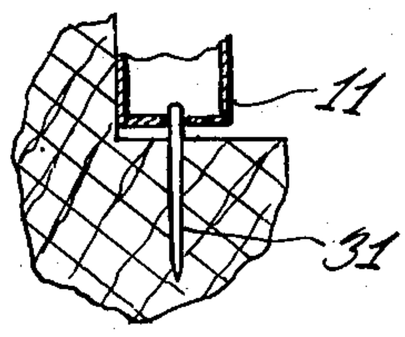


Fig. 5

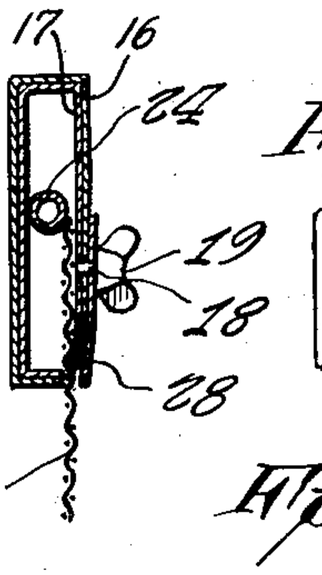


Fig. 7

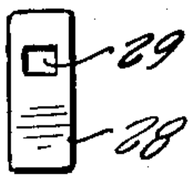
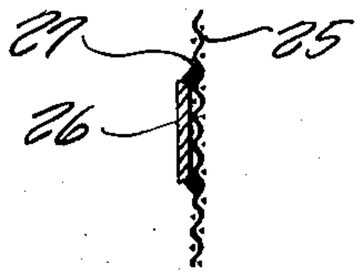


Fig. 6



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TWO-WAY ADJUSTABLE SCREEN

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1 Claim. (Cl. 160—353)

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This invention relates to a two-way adjustable screen.

It is an object of the present invention to provide a screen for windows which is adjustable in two directions in order that the screen can be fitted to different size window openings.

It is another object of the present invention to provide an adjustable screen which is adjustable in two directions which will have no sag or warp and which can be attached in a simple manner by four pins and without the need of a carpenter.

It is a further object of the invention to provide a two-way adjustable screen which can be hung from the inside of the building as well as from the outside.

Other objects of the invention are to provide a two-way adjustable screen which is of simple construction, inexpensive to manufacture, easy to install, has a minimum number of parts, compact, easy to store, easy to adjust and hang, has long life and efficient in operation.

For other objects and for a better understanding of the invention, reference may be had to the following detailed description taken in connection with the accompanying drawing, in which

Fig. 1 is a perspective view of the two-way adjustable screen embodying the features of the present invention.

Fig. 2 is a fragmeentary bottom perspective view of the screen.

Fig. 3 is a side elevational view of a tool which is struck for setting the nails in the window frame and on which the screen is mounted.

Fig. 4 is a fragmentary sectional view taken on line 4—4 of Fig. 2 and showing the bottom edge of the window screen mounted over a mounting nail.

Fig. 5 is a vertical sectional view taken generally on line 5—5 of Fig. 1.

Fig. 6 is a detail sectional view taken through the screen and the reinforcing bar extended thereacross and as viewed on line 6—6 of Fig. 1.

Fig. 7 is an elevational view of the clamping plate.

Referring now to the figures, 11 and 12 represent respectively L-shaped corner frame sections adapted to form the bottom portion of the screen. These sections slide one within the other and can be laterally adjusted to different distances and for entry into different widths of window openings. The outer corner section 12 has an elongated slot 13 through which a bolt 14 which is fixed to the inner member 11 extends

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and on which is a clamping nut 15 for securing the sections in their adjusted positions.

The upper part of the screen is formed of similarly interconnected L-shaped or corner frame sections 16 and 17 which are connected together and held in adjusted positions relative to each other by clamping bolt 18 and nut 19. The bolt extends through an elongated slot 21 of the section 16 and from the inner section 17.

The corner section 16 is in turn slidably connected to the corner section 11 and the corner section 17 is in turn slidably connected to the corner section 12 whereby the upper and lower corner sections can be adjusted relative to each other and vertically to adapt the screen to the height of the window opening. Clamping bolt means 22 holds the sections 11 and 16 in their adjusted positions and clamping bolt means 23 holds the sections 12 and 17 in their adjusted positions.

Lying within these frame sections is a pipe frame 24 to which screen material 25 is welded or secured in any suitable manner and the sides of the frame have a transversely extending bar 26 connected to the screen by welding, as indicated at 27, Fig. 6. The frame 24 is of the mean size of the overall screen including the corner sections and the sections can accordingly be adjusted either outwardly or inwardly of the frame to adapt the screen to the different size window openings.

A clamp plate 28, Figs. 5 and 7, having an opening 29 through which a clamping bolt 18 of the frame sections may extend, is connected to the bolts 18 by means of a wing nut 19 to hold the screen frame against displacement within the corner sections. These clamp plates depend in a manner such as to engage the front of the screen material and will keep the screen 25 and its frame 24 in place within the frame sections. The clamp plates 28, due to their easy removal, permit of simple exchange of the screen 25, if required.

To mount the screen within a window, mounting pins 31 are driven into the window opening frame by a special tool 32 which is struck with a hammer 33, Fig. 3. This tool has a hole 34 into which the head of the nail extends so that when the nail or pin 31 is driven, it will be driven so as to project a distance from the frame equal to the length of the opening 34.

The corner sections of the frame have openings 35 for receiving the mounting pins 31. The corner sections can be loosened slightly in order to cause them to be placed over the pins and can

thereafter be extended so as to remain upon the pins. In the top sections are inclined holes 36 for receiving nails in the side of the frame opening.

It should now be apparent that there has been provided a two-way adjustable screen. The corner sections can be readily adjusted relative to one another and adapt the screen to be fitted to different size window openings.

While various changes may be made in the detail construction, it shall be understood that such changes shall be within the spirit and scope of the present invention as defined by the appended claim.

Having thus set forth and disclosed the nature of my invention, what is claimed is:

A two-way adjustable screen comprising an inner screen frame with screen material extending thereover and an outer frame comprising, overlapping and nested corner sections respectively adjustably connected with one another and receiving the inner screen frame, said sections being adjustable relative to the screen frame, clamping means securing the sections in their adjusted positions, said outer screen frame being of rectangular cross-section, clamp plates retaining the screen material in operative position and bolt means for removably securing said clamp plates to said outer frame, in order to permit of easy removal of the screen from the frame.

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REFERENCES CITED

The following references are of record in the file of this patent:

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