Jan. 27, 1953 C. S. MURCH 2,626,433

ADJUSTABLE DOOR JAMB FOR STORM AND SCREEN DOORS

Filed July 30, 1951

Fig. 1

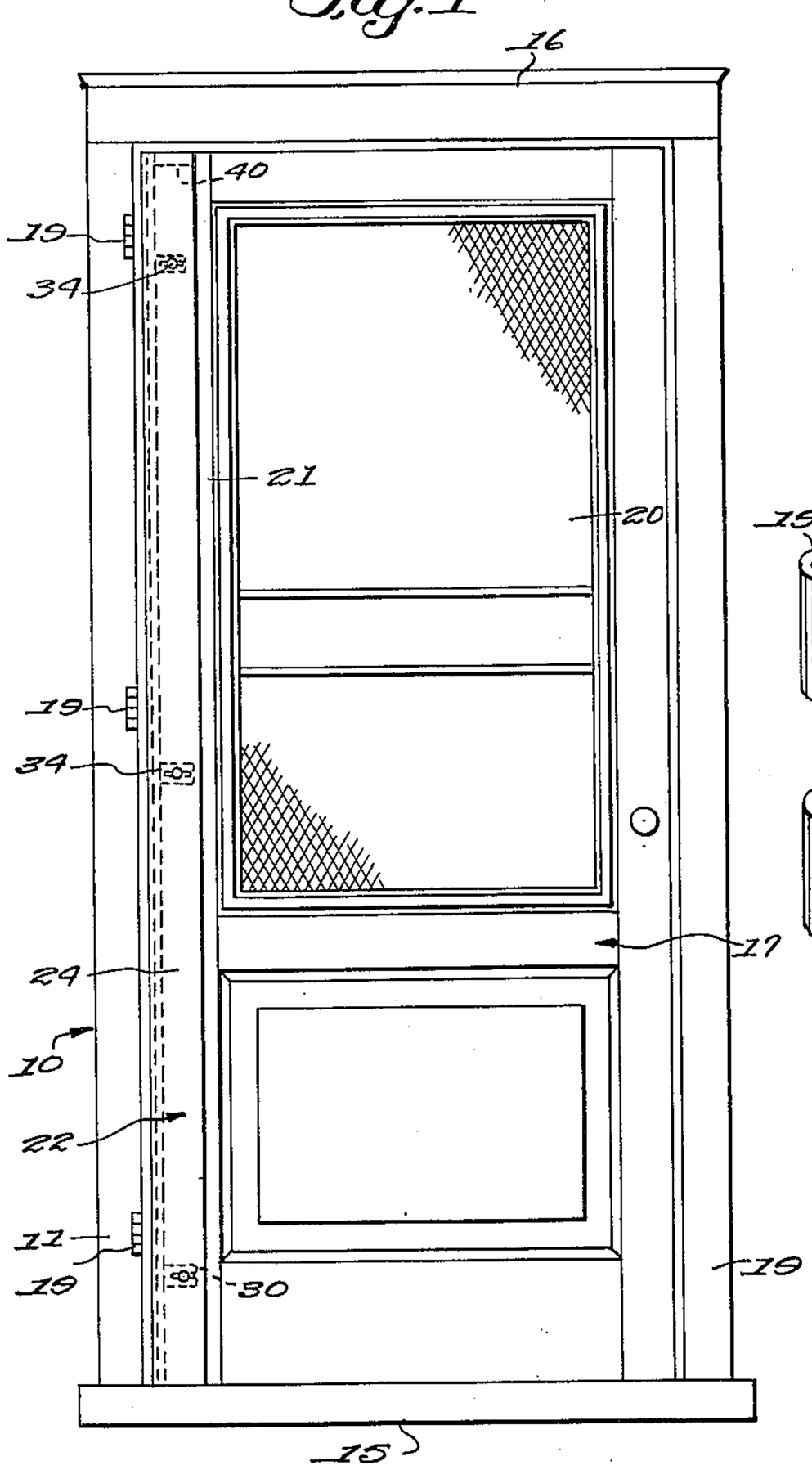

Fig. 3.

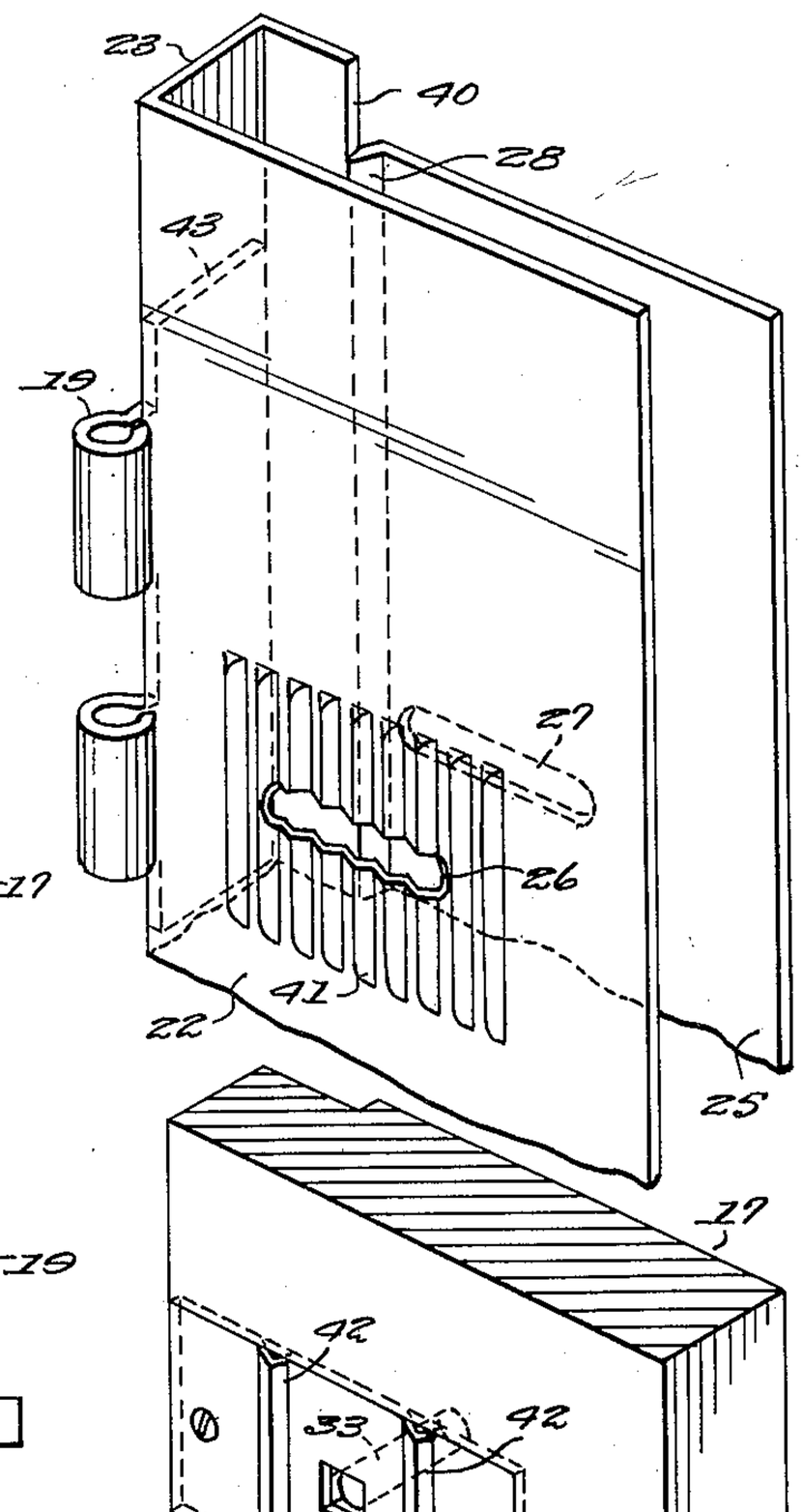

Fig. 2.

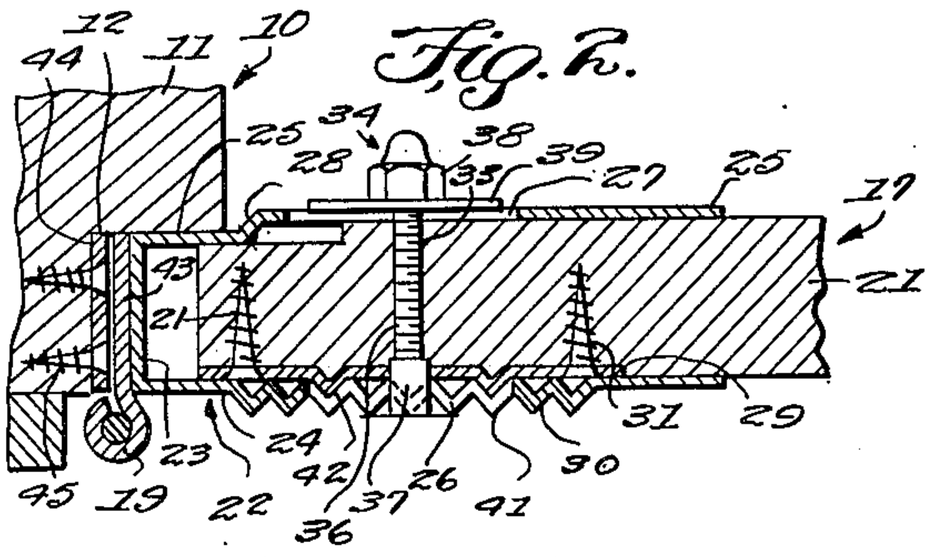

Fig. 4.

INVENTOR.
Charles S. Murch,
BY Victor J. Evans & Co.
ATTORNEYS

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ADJUSTABLE DOOR JAMB FOR STORM AND SCREEN DOORS

Charles S. Murch, Augusta, Maine

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2 Claims. (Cl. 20—35)

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This invention relates to a building construction, and more particularly to an adjustable jamb for storm and screen doors.

The object of the invention is to provide a jamb for doors, such as storm and screen doors, the jamb of the present invention being adjustable, whereby there will always be a proper fit between the door and frame in the event the door swells or shrinks due to changing weather conditions.

Another object of the invention is to provide an adjustable door jamb which is constructed so that it can be quickly and easily adjusted, and wherein the jamb will remain immobile after it has been adjusted, the door jamb adapted to be adjusted to compensate for varying widths of doors.

A further object of the invention is to provide an adjustable door jamb which is extremely simple and inexpensive to manufacture.

Other objects and advantages will be apparent during the course of the following description.

In the accompanying drawings forming a part of this application, and in which like numerals are used to designate like parts throughout the same:

Figure 1 is an elevational view of a door provided with the jamb of the present invention;

Figure 2 is a horizontal sectional view taken through the jamb;

Figure 3 is a fragmentary perspective view of a portion of the body member;

Figure 4 is a fragmentary sectional view, showing the manner of embedding one of the anchoring plates.

Referring in detail to the drawings, the numeral 10 designates a door frame which includes a vertically disposed standard 11 that is provided with a recess 12, Figure 2. The frame 10 may include a second vertically disposed standard 14, and there may also be provided horizontally disposed, spaced, parallel rails 15 and 16, Figure 1. Hingedly mounted in the frame 10 is a door 17 which may be a storm, screen, or any other type of door. The door 17 is hingedly connected to the frame 10 by conventional hinges 19, and screens 20 may be arranged in the door 17. The door 17 is conventional and may be made substantially of wood, the door 17 including a vertically disposed side rail or side member 21.

The present invention is directed to an adjustable door jamb, whereby compensation can be made for shrinkage or swelling and whereby adjustments can be made in order to take care of doors of different widths.

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The adjustable door jamb of the present invention includes a U-shaped body member or socket member 22 which may be fabricated of any suitable material, such as metal and on which the hinges 19 are mounted. The body member 22 includes a web 23, and extending from the web 23 and formed integrally therewith or secured thereto is a pair of spaced, parallel legs 24 and 25. The leg 24 is provided with a plurality of slots 26 which are arranged in opposed, aligned relation with respect to similar slots 27 in the leg 25.

The leg 25 is provided with an offset portion 28, Figures 2 and 3, which enables the body member 22 to conform in shape to the side rails 21 of the door 17.

The side rail 21 of the door 17 is provided with a plurality of indentations or recesses 29, and seated in each of the indentations 29 is an anchor plate 30, the plates 30 being secured to the side rail 21 by suitable securing elements, such as screws, 31. Each of the anchor plates 30 is provided with a square-shaped opening 32, and an aperture 33 extends through the side rail 21 and is arranged in alignment with the opening 32.

A means is provided for connecting the body member 22 to the side rail 21, whereby the body member 22 will remain immobile in its various adjusted positions. This means comprises bolts 34 which are each provided with a square shank 35 that extends through the square opening 32 in each of the anchoring plates 30. Each of the bolts 34 further includes a threaded portion 36, and positioned on the shank 35 of the bolt 34 is a flat head 37. A cap nut 38 is arranged in engagement with the other end of the bolt 34, and a washer 39 is interposed between the cap nut 38 and the leg 25. The upper end of the leg 25 may be recessed or cut away, as at 40, to provide sufficient clearance for the stop on the header.

The leg 24 of the body member 21 is provided with a plurality of vertically positioned corrugations 41 and corresponding ridges 42 on the under plates 30, are positioned to mesh with the corrugations, whereby with the parts held by the bolts 34 all possibility of slippage or working loose of the parts is eliminated. The flat heads 37 of the bolts are positioned to co-act with the corrugations 41 to provide means for positively retaining the parts in position.

The plates 43 of the hinges 19 are secured to the web 23 of the socket member 22, and the plates 44 of the hinges are secured in the recesses 12 of the standard 11 of the door frame by screws 45.

From the foregoing, it is apparent that an

adjustable door jamb has been provided. To assemble or install the door jamb of the present invention on a storm or screen door, a plurality of apertures **33** are drilled or otherwise formed in the side rail **21** of the door **17**. Then, recesses **29** are cut into one side of the rail **21**, and the anchor plates **30** are seated in the recesses or indentations **29**. These anchor plates **30** are secured to the side rail **21** by screws **31**, and then the body member **22** is positioned in straddling relation with respect to the side rail **21**. Next, the bolts **34** are extended through the slots **26**, then through the opening **32**, then through the aperture **33**, and finally through the slot **27**. The washer **39** is circumposed on the bolt **34**, and the cap nut **38** is arranged in threaded engagement with each of the bolts **34**. To adjust the body member **22** to any desired position, the cap nut **38** is simply loosened on each of the bolts **34**, whereby the body member **22** can be slid or moved relative to the side rail **21** of the door **17**. After the body member **22** has been adjusted in a desired position, the cap nut **38** can be again tightened, whereby the body member **22** will be maintained immobile in its various adjusted positions.

The adjustable door jamb of the present invention can be used with storm and screen doors and provides a quick and easy method of adjusting the door, so that there will always be a good fit, even though the parts are swelled or shrunk due to adverse weather conditions. The body member **22** may be plain, or may be ornamental, as desired, and may be made of any suitable material, such as steel or aluminum. The indentations **29** which provide seats for the anchor plates **30** enable corrugations of the leg **24** of the body member **22** to readily fit over the ridges of the anchor plates. By means of the jamb of the present invention, it will not be necessary to plane the door after a rain storm. Also, the door jamb of the present invention is simple and inexpensive to manufacture and install. The jamb is especially suitable for use on conventional wooden doors, and the plates **30** insure that there will be no slippage during use. Also, the heads **37** are flat and large enough to insure that the slot **26** will be covered while the washer **39** covers the other slot **27**.

What is claimed is:

1. In a door mounting, the combination which comprises, a door frame having a continuous recess in the inner edge of one side and having hinge plate receiving recesses positioned in the sides of said continuous recess, hinges mounted in said hinge receiving recesses, a door positioned in said frame, a socket U-shaped in cross section mounted on one edge of said door and positioned in said continuous recess, said hinges being secured to the socket, said socket having a web with legs extended at the sides and one of said legs having vertically disposed corrugations therein, an anchor plate having ridges thereon mounted in said door and positioned whereby the ridges thereof mesh with the corrugations of the leg of the socket, and bolts extended through the socket, anchor plate, and door for retaining the door to the hinges in adjusted positions.

2. In a door mounting, the combination which comprises, a door frame having a continuous recess in the inner edge of one side and having hinge plate receiving recesses positioned in the side of said continuous recess, hinges mounted in said hinge receiving recesses, a door positioned in said frame, a socket mounted on one edge of said door and positioned in said continuous recess, said hinges being secured to the socket, said socket having a web with legs extended at the sides and one of said legs having corrugations therein, an anchor plate having ridges thereon mounted in said door and positioned whereby the ridges thereof mesh with the corrugations of the leg of the socket, and securing elements extended through the socket, anchor plate, and door for retaining the door to the hinges in adjusted positions.

CHARLES S. MURCH.

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