

[54] **ADJUSTABLE DOOR JAMB**  
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[58] Field of Search .....52/217, 122; 49/505

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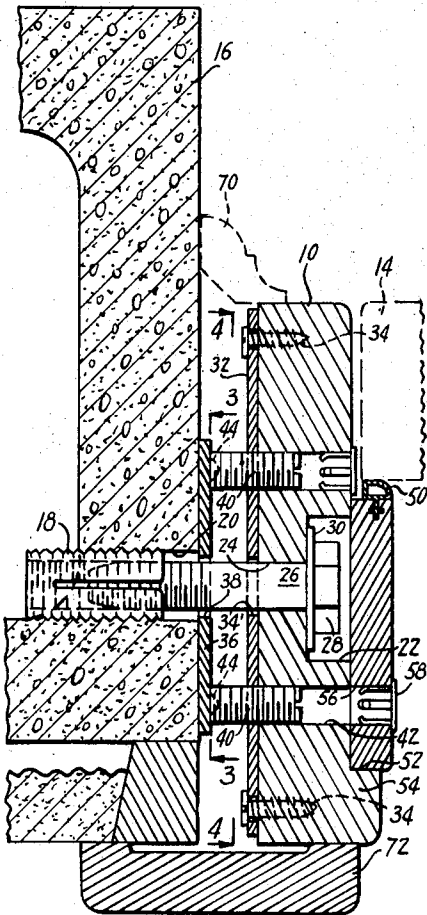
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[57] **ABSTRACT**

A jamb, a metal plate attached thereto, a lag screw inserted through the jamb and plate and threadedly engaged with the end of the wall to which the jamb is adjustably attached, a metal plate against the end of the wall, and set screws threadedly engaged with the plate attached to the jamb exerting a force against the metal plate attached to the end of the wall opposing the force exerted by the lag screw on the jamb.

**2 Claims, 4 Drawing Figures**



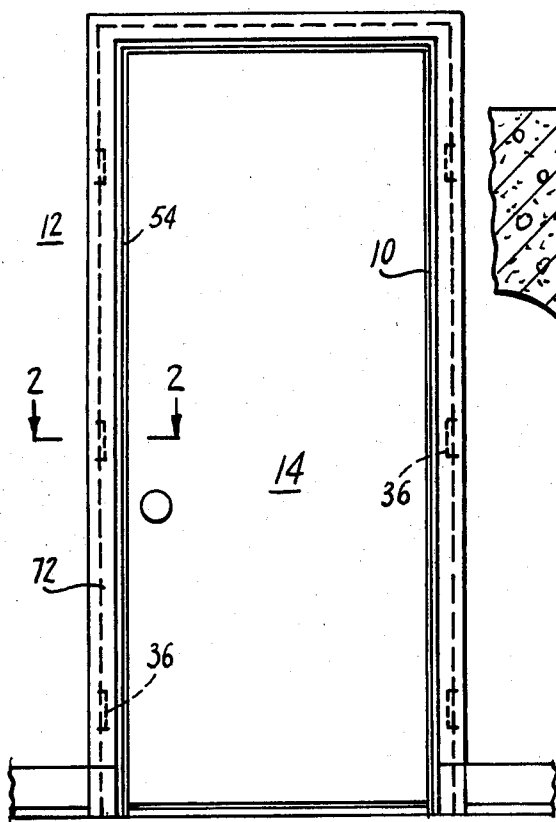


FIG. 1

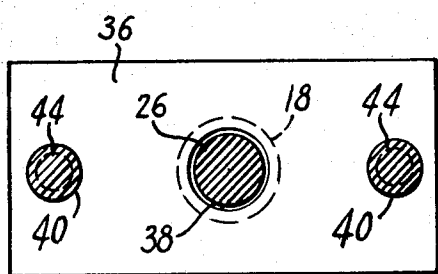


FIG. 3

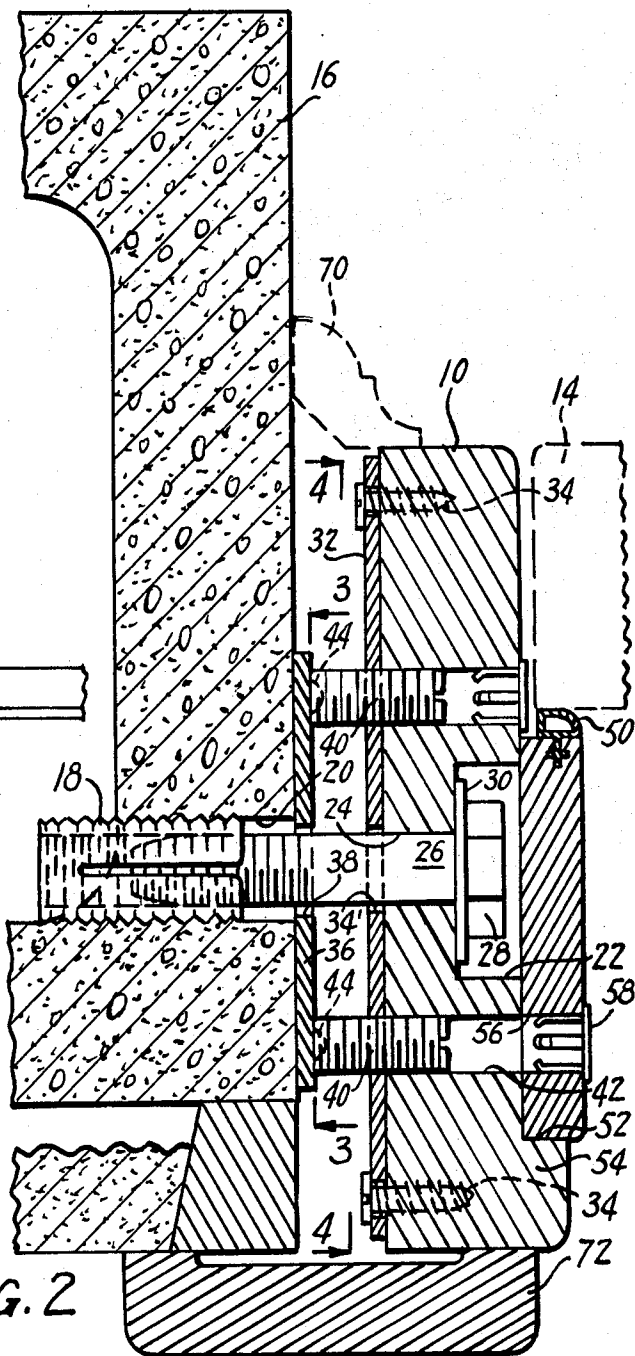


FIG. 2

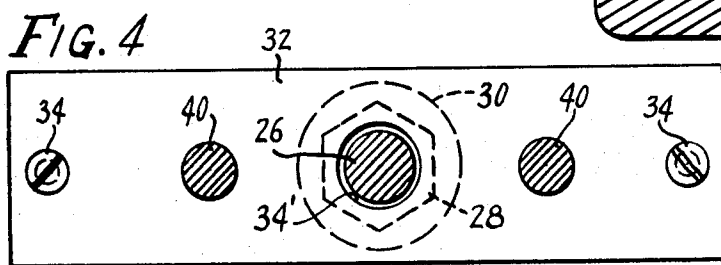


FIG. 4

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**ADJUSTABLE DOOR JAMB**

This invention relates to an adjustable door jamb allowing installation of a door to be cut to a minimum of time. This invention obviates the necessity of planing down finished door edges and allows doors to be adjusted years after being fit to the door opening as well as new doors to be substituted with ease. There is no change in the standard building code for the width of the rough door openings with this invention.

To fit the adjustable jamb, the builder needs only to measure back as far as needed to allow for lath and plaster, mark a plum line down the sides of the rough door opening, set the adjustable jamb on line for anchor bolt holes, and tighten the lag screws of the jamb after it is properly positioned. It should be noted that the adjustable jamb may be used in conjunction with various types of entrances and exits including in and out swinging doors.

A primary object of this invention is to provide means for adjusting a door jamb to fit doors varying in width which are to be installed in a specific door opening and to allow simple and quick installment of a door when a structure is being built.

Another object of this invention is to provide means for adjusting a door jamb which has already been attached to the side of a door opening to properly fit a door without the necessity of removing the door jamb.

A further object of this invention is to provide means for providing a proper fit between a door jamb and a door without the necessity of planing down door edges.

The above and other objects of this invention will become apparent to those skilled in the art after a consideration of the following detailed description of the preferred embodiments of this invention taken together with the accompanying drawing wherein:

FIG. 1 is an elevational view of an entranceway and door;

FIG. 2 is a sectional view taken on line 2—2 of FIG. 1;

FIG. 3 is a sectional view taken on line 3—3 of FIG. 2; and

FIG. 4 is a sectional view taken on line 4—4 of FIG. 2.

Referring in detail to the drawing, there is shown in FIG. 1 a series of adjustable door jambs 10 attached to the wall 12 on each side of an entranceway for securing a door 14. FIGS. 2-4 show in detail how door jamb 10 is attached to a roughed in door opening base 16 which is illustrated as concrete but may also be masonry, wood, etc. if desired. An anchor shield 18 is inserted into a bore 20 within base 16. Jamb 10 has a notch 22 in the surface thereof on the door side and a hole 24 through which a lag screw 26 may be inserted, the head 28 of screw 26 extending outward to a height not reaching the surface of jamb 10 on the door side thereof with head 28 resting on a washer 30. A metal plate 32 is attached to the surface of jamb 10 on the wall side thereof by means of screws 34 or large flat head roof nails that give maximum clearance between adjusting plate 32 and base 16. Adjustment plate 32 has a hole 34 therein for insertion of screw 26. A support plate 36 having a hole 38 in the center thereof is lined up with bore 20 allowing the screw 26 to be inserted through hole 38 for threaded engagement with anchor shield 18 which expands against the inner wall of bore 20 securing jamb 10 to base 16. Set screws 40 are inserted in

bore 42 in jamb 10 and threadedly engage with adjustment plate 32. Setscrews 40 exert a force against supporting plate 36 as they are tightened thereagainst thereby forcing plate 32 and jamb 10 against washer 30 and head 28 producing a tight, balanced, and exact fit determined by the opposing forces of lag screw 26 and setscrews 40 and the depth to which lag screw 26 is threaded within bore 20. Plate 36 has dimples 44 projecting therefrom and setscrews 40 are hollowed out at the ends thereof to correspond with the dimensions of dimples 44 so that when aligned with each other, plate 36 is prevented from turning when inserting lag bolt 26 which catches setscrews 40 at any angle. Instead of dimples 44 rectangular plate 36 may be made square or circular in order to prevent plate 36 from turning at an angle so that there is no longer contact with setscrews 40. It should be mentioned that jamb 10 is designed to fit for door installation in such a manner that lock picking is discouraged. A door stop 50, such as that illustrated and described in U.S. Pat. No. 3,140,517, issued July 14, 1964, is mounted against the surface of jamb 10 on the door side thereof fitting against a surface 52 of an extended portion 54 of jamb 10. Door stop 50 has a hole 56 therein for the insertion of one of setscrews 40, plastic caps 58 covering up passageways 42 after insertion and adjustment of setscrews 40.

While the preferred embodiments of this invention have been illustrated and described, it will be understood by those skilled in the art that modifications and changes may be resorted to without departing from the spirit and scope of the invention. For instance, if base 16 is to be wood rather than concrete, there will be no need for anchor shields 18. Any type of suitable molding 70 and strip 72 may of course be used in conjunction with door jamb 10.

I claim:

1. An adjustable door jamb, comprising an upright frame member having a plurality of holes therein extending completely therethrough, one of which is intermediate the opposite side edges of said frame member at the center thereof with another hole on each side thereof intermediate the center hole and the frame member side edges, a threaded fastener extending through said center hole and threaded into the end of the wall forming one of the sides of the door opening for adjustably securing said frame thereto, and a plurality of threaded adjusting elements extending through the other of said plurality of holes threadably engaged with said frame and exerting an outward force against the end of said wall opposing the inward force produced by said threaded fastener for firmly securing and adjusting said frame at a desired distance and angle from the end of said wall, said threaded fastener and said threaded adjusting elements being individually adjustable with said frame member in installed position, said frame including a wood jamb and a metal plate secured to the surface of said jamb facing the end of said wall, said adjusting elements being threaded through said metal plate, a second metal plate having a hole centrally thereof through which said fastener extends, said second plate being physically positioned between the end of said wall and the ends of said adjusting elements for transmitting the opposing force and permitting said frame to be balanced and adjusted without regard to irregularities in the end of said wall,

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said frame including a door stop mounted against the surface of said wood jamb facing the door, said center hole in said jamb being countersunk with the head of said fastener extending toward but spaced from said door stop, said door stop having bores opening therethrough corresponding to the adjusting element bores on one side of said center bore to permit adjusting of said adjusting elements from the door side of said

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frame.

2. The door jamb of claim 1, wherein said adjusting elements have hollowed out portions in the ends thereof and said last-mentioned plate has projections extending therefrom positioned to mate with said hollowed out portions thereby preventing said plate from turning during adjustment of said fastener.

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