

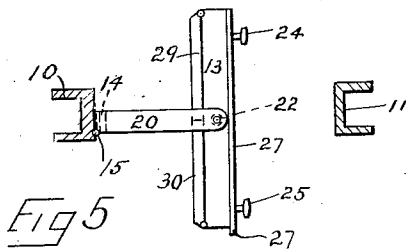
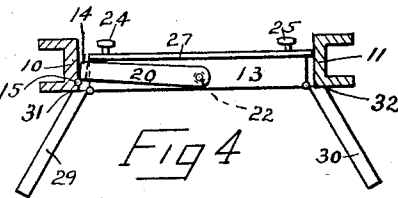
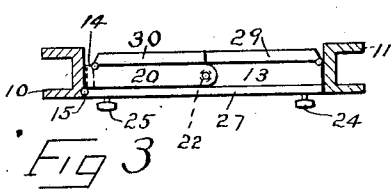
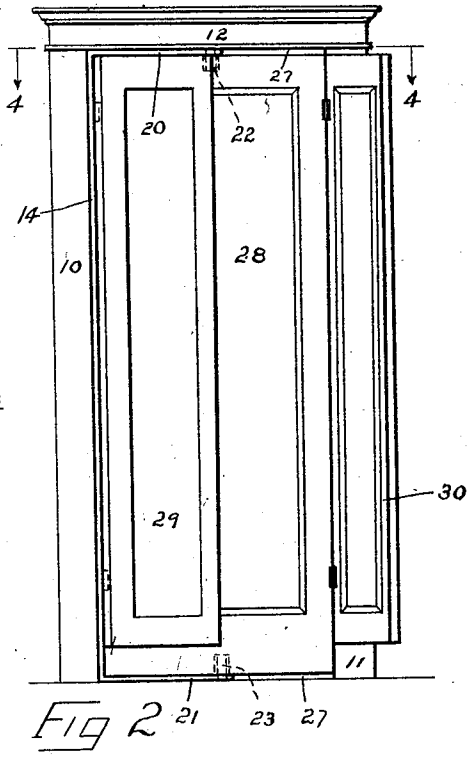
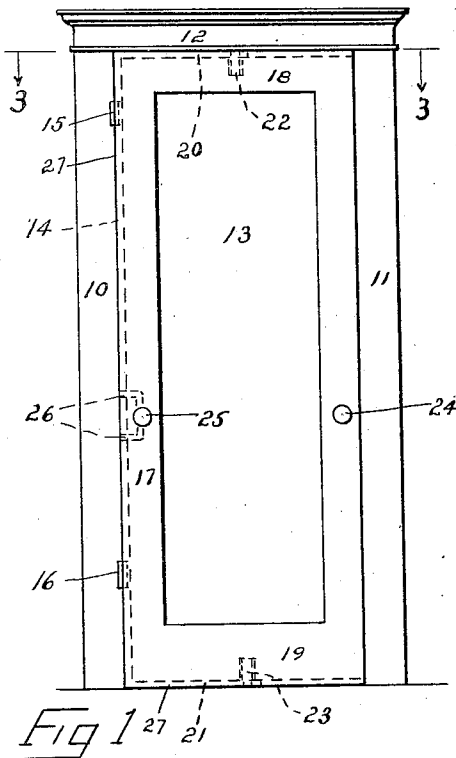
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W. W. SMITH

REVERSIBLE DOOR

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# UNITED STATES PATENT OFFICE.

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## REVERSIBLE DOOR.

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My invention relates to doors of a reversible type and has for its main object to provide novel means for reversing the door.

5 A further object is to provide certain mirrors on the doors which may be disposed at various angles to reflect the light as desired.

10 A still further object is to provide a door of pleasing appearance, simple in construction, occupying no more space than an ordinary door, comparatively inexpensive to manufacture and which may be installed in any door frame without change or alteration to same.

15 These and various other objects and advantages will be clearly understood from the following description and from the accompanying drawing of a preferred embodiment, but it will be noted that it may be adapted to other uses and certain modifications might be made without departing from the scope of the invention.

20 Fig. 1 is a front view of the preferred embodiment of my invention.

Fig. 2 is a rear view.

Fig. 3 is a plan view, partly in cross-section, taken on line 3—3, Fig. 1.

30 Fig. 4 is a plan view, partly in cross-section, taken on line 4—4, Fig. 2.

Fig. 5 is a plan view, partly in cross-section, showing the door in a different position.

35 Referring now to all the views simultaneously, 10, 11 and 12 are the jambs and head jamb of the door frame in which the one-panel door 13 is swung. The door is not hinged directly to the jamb 10 but is pivoted in a frame 14 which is hinged to the jamb 10 by means of the hinges 15 and 16.

40 The frame 14 is concealed in a shouldered recess, formed in the stile 17, head rail 18 and bottom rail 19, when the front of the door is viewed. The upper arm 20 and the lower arm 21, of the frame 14, extend slightly more than half way across the door and are provided with pivots 22 and 23 which engage in suitable bushings inserted in the top and bottom rails of the door.

A handle 24 actuates an ordinary lock which engages in the jamb 11, while the handle 25 actuates bolts 26 which engage in apertures in the frame 14; thus locking the door to the frame.

55 It will be readily seen that, when the handle 24 is turned and pulled forward, the door will open on the hinges 15 and 16 in the manner of an ordinary door, while if the handle 25 is turned and pulled forward, 60 the door will turn on the pivots 22 and 23, as plainly shown in Fig. 5.

The hinges 15 and 16 may be of either single or double acting type, so that the door can swing either one or both ways. 65 The arms 20 and 21 may be extended across the bottom and top rails and made to abut against top and bottom stops. In this case, the shoulder 27, which is formed by the recess in the stile, top and bottom rail, is 70 omitted.

Fig. 2 shows the door reversed in the frame 14. That side of the door is provided with a bevelled edge mirror 28 and two wing doors 29 and 30 which are hinged 75 to the door 13 in such a manner, that when closed, they present a plain panelled door while, when opened, they present two side mirrors. On Fig. 2 the door 29 is shown closed and the door 30 is shown open. On 80 Fig. 3, both these doors are shown closed while, on Fig. 4, they are both shown open.

The wing doors are hinged adjacent to the edges of the door 13 and their hinged edges are bevelled, as shown at 31 and 32, 85 so that when folded against the jambs 10 and 11, they secure the door against rotation.

It will be noted that the door 13 may be placed in any position, other than that shown in Fig. 4, by pulling it outwardly 90 and causing the frame 14 to swing on its hinges.

Having thus described my invention, what I claim as new and wish to protect by Letters Patent is—

95 1. In a reversible door; an auxiliary frame hinged to a door frame; a door, having one plain and one mirrored side, pivoted in said auxiliary frame and free to rotate therein; one or more wing-mirrors hinged 100

to the mirrored side of said door and rotating therewith.

2. In a reversible door; an auxiliary frame hinged to a door frame; a door, having one plain and one mirrored side, pivoted in said auxiliary frame and free to rotate therein; wing-mirrors, each having one

plain and one mirrored side, hinged to the mirrored side of said door; and said wing-mirrors so located that when the door is reversed and the wing mirrors extended the door will be secured against rotation. 10

WILLIAM W. SMITH.