

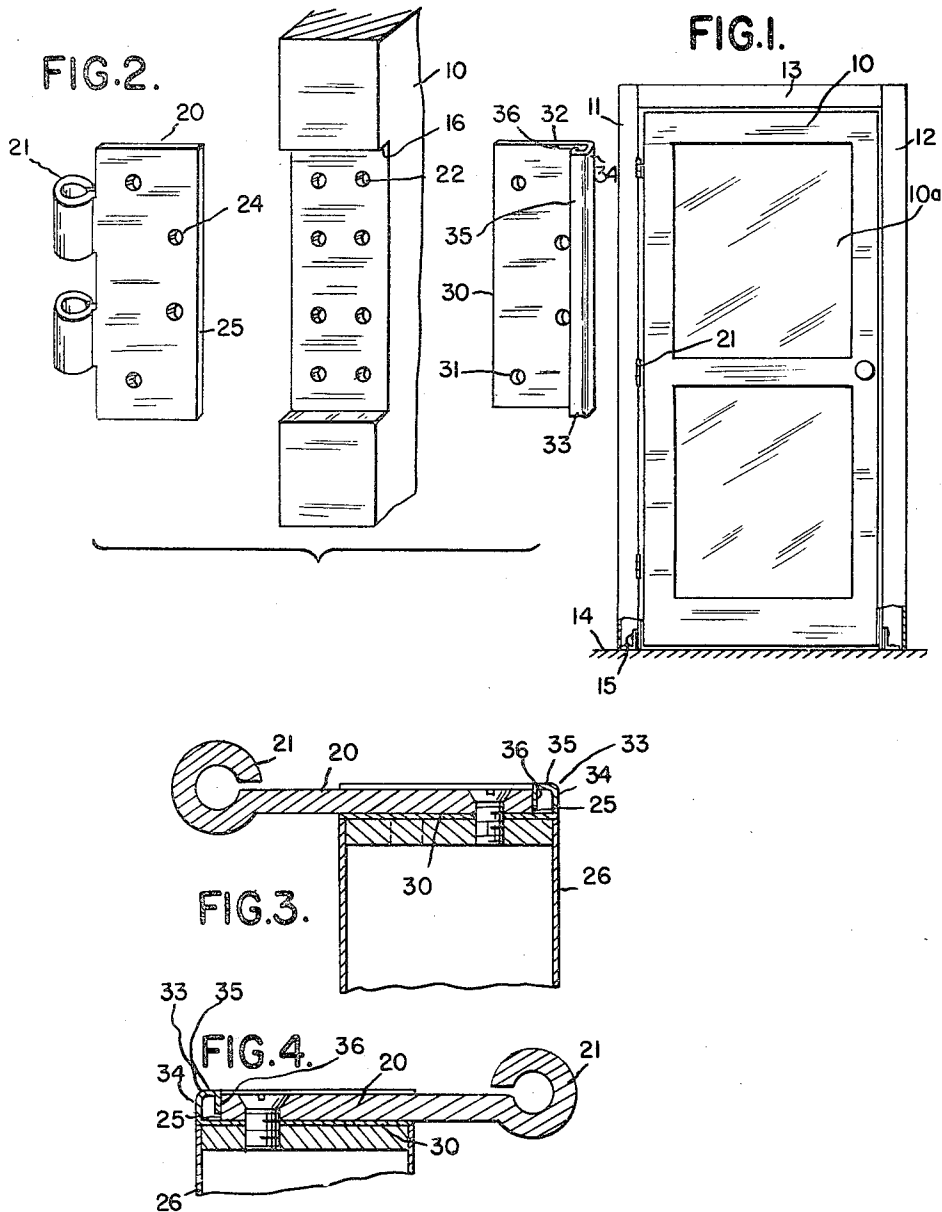
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FILLER PLATE FOR REVERSIBLE HINGES

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FILLER PLATE FOR REVERSIBLE HINGES

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1 Claim. (Cl. 16—148)

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The present invention relates to a filler plate for reversible hinges capable of permitting hinging of the door to swing in either direction.

The present invention is a division of my prior copending application, Serial No. 85,383, filed April 4, 1949 now Patent No. 2,627,632 granted February 10, 1953.

It is an object of the present invention to provide door construction designed to permit reversal of the hinge butt relative to the door so that a single door may be mounted to swing in or out and either right hand or left hand.

It is a further object of the present invention to provide a hinge filler plate for use in mounting a hinge butt in a through notch at the edge of the door, the filler plate being provided with a bead adapted to abut the edge of the hinge butt.

Other objects and features of the invention will become apparent as the description proceeds, especially when taken in conjunction with the accompanying drawings wherein:

Figure 1 is a front elevational view of a door mounted in a door frame.

Figure 2 is an exploded view showing the association between the door, a hinge filler plate and a hinge butt.

Figure 3 is a transverse sectional view through an assembly comprising the door hinge filler plate and hinge butt with the hinge butt located at one side of the door.

Figure 4 is a view similar to Figure 3 showing the hinge butt located at the opposite side of the door.

Referring now to the drawings, in Figure 1 there is illustrated a metal door 10 which may be provided with a glass light 11a, the door being mounted in a frame comprising a hinge jamb 11, a lock jamb 12, and a frame header bar 13. The frame jambs 11 and 12 are attached to the floor 14 by attaching brackets 15, the brackets being in the form of angle pieces having legs screwed or otherwise fastened to the floor and other legs screwed or bolted to vertical surfaces of the frame jambs.

As best seen in Figure 2, the hinge edge of the door is provided with a notch 16 which extends completely across the edge of the door. Prior conventional construction was to mortise the hinge butt into the edge of the door thus leaving the surface of the door opposite the pintle of the hinge completely uninterrupted. The present construction is devised so that a hinge butt 20 provided with pintle eyes 21 may be mounted so that the pintle eyes extend to either side of the door as desired. For this purpose the notch 16

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of the door is provided with a plurality of screw holes 22 so arranged that the screw holes 24 provided in the hinge butt may register with screw holes in the notch whether the pintle eyes 21 of the hinge butt be to the right or to the left as seen in Figure 2.

As best seen in Figures 3 and 4 the hinge butt is designed so that its edge 25 opposite to the pintle eyes 21 is located inwardly from the surface 26 of the door opposite to the hinge pintle eyes 21. In order to provide a finished appearance, a hinge filler plate 30 is provided having screw holes 31 corresponding in number and arrangement to the screw holes 24 provided in the hinge butt.

The hinge filler plate comprises a sheet metal plate portion 32 whose width is exactly equal to the entire width of the door. At one side the plate has a bead 33 formed by a reversely bent edge. Specifically, the bead comprises a first portion 34 bent forwardly from the plane of the main portion of the plate 32, the second portion 35 extending generally parallel to the plane of the plate 32 but toward the opposite edge thereof, and a third portion 36 reversely bent to extend toward the plane of the plate. By virtue of this construction, the free edge of the inwardly extending portion 36 of the bead is in position to be concealed by the edge of the hinge butt 20 as best illustrated in Figures 3 and 4.

As a result of this construction a single door may be provided which may be mounted for swinging movement either in or out at either the left hand or the right hand side of the door.

The drawings and the foregoing specification constitute a description of the improved door hinge in such full, clear, concise and exact terms as to enable any person skilled in the art to practice the invention, the scope of which is indicated by the appended claim.

What I claim as my invention is:

A hinge filler plate for a reversible hinge adapted to be mounted to extend toward either side of a metal door and receivable in a slot extending completely across an edge of the door, wherein the portion of the hinge received in said slot extends in said slot from one end but terminates short of the other end thereof, said hinge filler plate having a length equal to the width of the slot from one side of the door to the other and being formed of a metal plate comprising a main portion having adjacent one side thereof a bead formed by a first portion formed at right angles to the plane of the plate and extending outwardly therefrom a distance equal to the

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depth of the slot in the edge of the door, a second portion reversely turned to overlie the main portion of said plate and having a length equal to the amount by which the end of the hinge portion received in the slot in the edge of the door is spaced from the adjacent end of the slot, and a third portion bent to extend toward the main portion of said plate and in position to engage the end of said hinge portion, the main portion of said plate having screw receiving openings located to register with screw receiving openings in the slot of the door with its bead at either end of the slot.

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4**References Cited in the file of this patent****UNITED STATES PATENTS**

Number	Name	Date
1,043,489	Webster	Nov. 5, 1912

FOREIGN PATENTS

Number	Country	Date
255,419	Germany	Jan. 8, 1913
820,735	France	Aug. 9, 1937