Feb. 12, 1952 H. QUIGLEY 2,585,836

HINGE

Filed Dec. 9, 1946

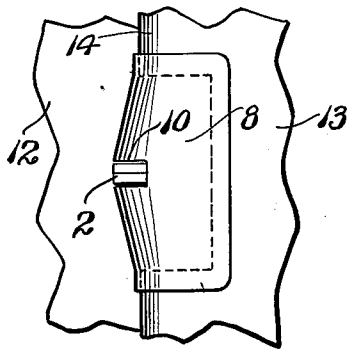


FIG. 1.

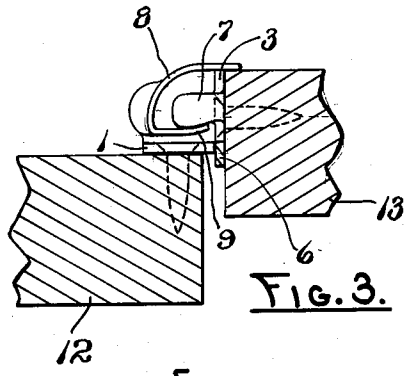


FIG. 3.

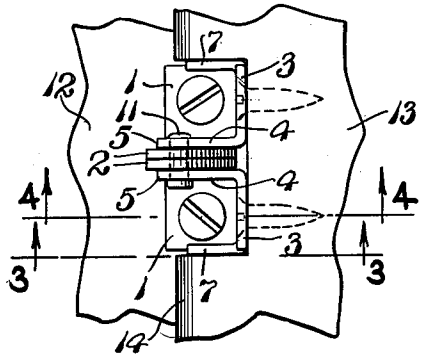


FIG. 2

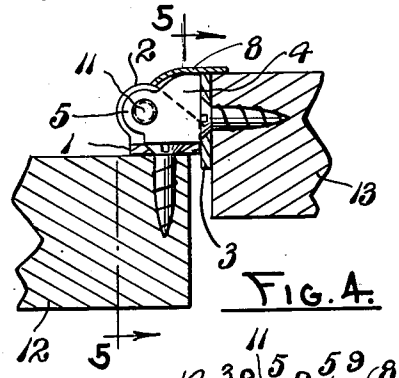


FIG. 4.

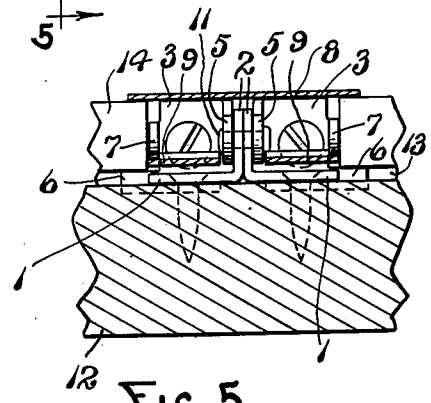


FIG. 5

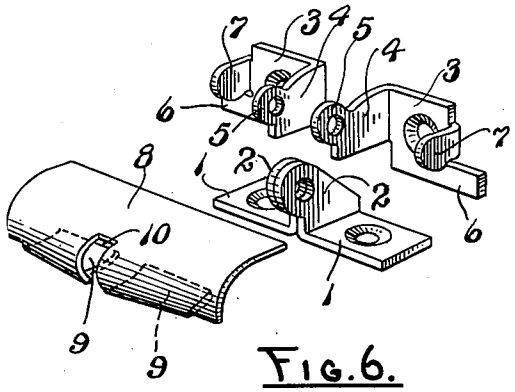


FIG. 6.

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HINGE

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3 Claims. (Cl. 16—148)

1

This invention is concerned with hinges. It is a primary object and purpose of the present invention to provide a very effective, economically produced hinge which, in general, will be used for hingedly mounting small doors, those of kitchen cabinets and the like, though in larger and stronger embodiments it may be used for many other and heavier doors. With the invention, as preferably embodied, the hinge is covered and substantially completely disguished by an attractive cover plate so that, when mounted on a door, a pleasing appearance is made.

An understanding of the invention may be had from the following description, taken in connection with the accompanying drawing, in which:

Fig. 1 is an elevation of the hinge as mounted, fragmentary parts of the door and door casing or jamb being shown.

Fig. 2 is a similar elevation with the covering removed.

Figs. 3 and 4 are horizontal sections substantially on the planes of lines 3—3 and 4—4 of Fig. 2, looking in the direction indicated.

Fig. 5 is a fragmentary vertical section substantially on the plane of line 5—5 of Fig. 4, and

Fig. 6 illustrates, in perspective, the parts which make up the hinge structure separated from each other and disassembled.

Like reference characters refer to like parts in the different figures of the drawing.

The hinge structure, best disclosed in detail in Fig. 6, shows one hinge member made from two parts each of flat metal. Each has a base 1 from an edge of which an arm 2 extends at right angles. Such members are located with the arms 2 in close side by side contact. The arms 2, adjacent their free ends, are provided with holes for the passage of a hinge pin. The other hinge member is likewise made from flat metal in two parts, each part having a base 3 and an arm 4 at one edge extending at right angles to the base. Each of the arms 4 terminates in an ear 5, each of which has a hinge pin hole. Said arms 4, in the assembled hinge, are located against the outer sides of the arms 2 and all of the holes described are in alinement. At the opposite edge of each of the bases 3 and at a corner portion thereof the metal is partly cut away leaving a projecting bar portion 6 in the same plane with its associated base 3. A tongue 7 is bent forwardly to a position substantially parallel to the arm 4 at the opposite edge of the base from the arm 4. Each of the arms 4 is shaped as shown with its edge adjacent the part 6 of arcuate form.

2

The bases 1 and 3 are provided with screw passing openings. When the hinge is assembled, and after it has been mounted at the edge of a door and upon the cooperating door jamb or casing, it is covered with a thin metal plate 8. The plate 8 extends over the hinge and around the free ends of the ears 5 and is provided with two inwardly extending lips 9 to engage underneath the tongues 7. The outer portion of the plate is slotted at 10 to permit the free ends of the arms 2 to extend therethrough. It is, of course, to be understood that a headed pin 11, passes through the several openings of the arms 2 and ears 5 for pivotally connecting together the parts of the hinge members.

Screws passing through the openings in the bases 1 of one of the hinge members are driven into a vertical door jamb or casing 12. At the adjacent vertical edge of the door 13, the other hinge members are mounted by screws passing through the bases 3 into the door. The door has the well known projecting edge portion 14 which partly overlaps the face of the casing 12. This edge portion 14 is mortised, as shown in dotted lines in Fig. 1, for the bases 3 to lie against the door with the part 6 extending outwardly underneath the narrowed edge portion 14 of the door. The covering plate 8 is snapped over the hinge with the lips 9 yieldingly engaging against the inner edges of the tongues 7, the opposite vertical edge portion of the cover fitting against the outer face of the door. The contour of the curved portion of said cover substantially conforms to the rounded edge of the projecting border portion 14 of the door. Preferably, between its ends, the curved portion of the cover is pressed outwardly so that the ends of the arms 2 extending into the slot 10 are flush with the edges of the slot.

The structure may be economically produced, all parts thereof except the hinge pin 11 being adapted to being stamped in large quantity production from flat metal. The hinge pin 11, after passing through the openings in the ears 5 and arms 2, is headed over at one of its ends, the other end having previously been provided with a head. This produces a secure pivotal connection between the parts of the hinge.

When mounted on a door, as shown in Fig. 1, an attractive appearance is presented. The cover, furthermore, prevents the entrance and collection of dirt and dust on the hinge.

The invention is defined in the appended claims and is to be considered comprehensive of all forms of structure coming within their scope.

I claim:

1. In a hinge structure adapted to pivotally mount a door upon a fixed jamb, the door being notched to receive said hinge structure, the combination comprising: a base plate adapted to be mounted to said jamb, said base plate having a central post projecting outwardly from said jamb and away from said door when said door is closed, plate means mounted in said notch and having a pair of spaced flanges extending outwardly from said door and adapted to receive said post therebetween; a pin for pivotally securing said flanges to said post; a pair of ears on said plate means, said ears being spaced from said post and arranged one on each side thereof; said ears adjacent said plate means having a recess opening toward said jamb when said door is closed; a substantially U-shaped cover having a long leg and a short leg; the free end of said long leg overlying said door; the other end of said long leg being curved toward said base plate and integral with said short leg; the free end of said short leg being inclined toward said long leg for nesting within said recess.

2. In a hinge structure as described in claim 1 wherein said cover is provided with a central aperture for receiving said post.

3. In a hinge structure adapted to pivotally mount a door upon a fixed jamb, the door being notched to receive said hinge structure, the combination comprising: a base plate adapted to be mounted to said jamb, said base plate having a central post projecting outwardly from said jamb and away from said door when said door is closed; a pair of U-shaped members mounted in said notch; one arm of each of said members abutting said post; a pin for pivotally securing said one arm of each of said members to said post; the other arm of each of said members adjacent the closed end of the notch having a recess, said recess opening toward said jamb when said door is closed; a substantially U-shaped cover having a long leg and a short leg; the free end of said long leg overlying said door; the other end of said long leg being curved toward said base plate and integral with said short leg; the free end of said short leg being inclined toward said long leg for nesting within said recess.

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