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A. F. WINTERS ET AL

1,648,249

HINGE

Filed July 20, 1925

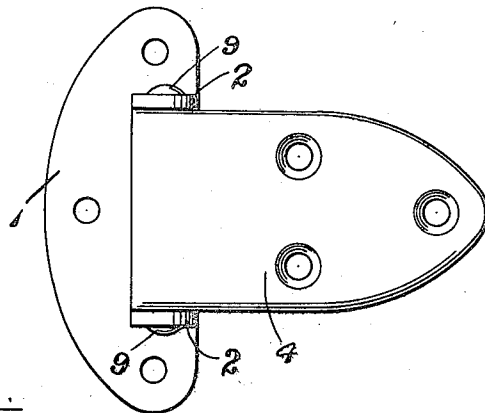


Fig. 1.

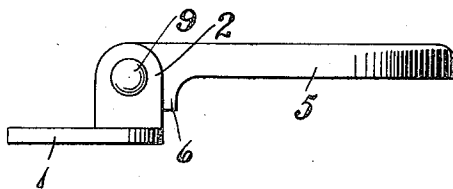


Fig. 2.

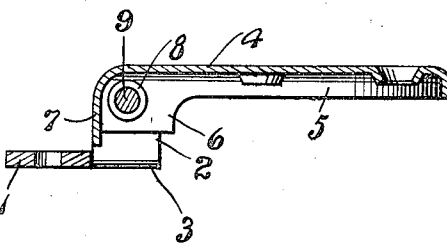


Fig. 3.

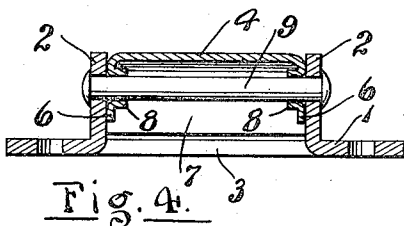


Fig. 4.

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UNITED STATES PATENT OFFICE.

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HINGE.

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This invention relates to a hinge for doors and particularly for refrigerator doors. It is designed that this hinge shall be made from sheet metal and so constructed that a particularly strong and effective bearing is made for the hinge pintle of the hinge, and the parts of the hinge made from pieces which can be readily polished without having to reach any more or less inaccessible corners or places. The hinge is very economically made and when produced is of exceptionally strong and durable character, at the same time presenting a finished and artistic appearance.

For an understanding of the invention by means of which these ends are attained, reference may be had to the following description taken in connection with the accompanying drawing, in which,

Fig. 1 is a plan view of the hinge.

Fig. 2 is a side elevation thereof.

Fig. 3 is a central longitudinal section through the hinge, and

Fig. 4 is a transverse vertical section through the hinge in the plane of the pintle connection between the hinge parts.

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

In the construction of the hinge, a hinge member 1 is provided in the form of a flat plate, preferably of the shape shown having its inner edge substantially straight, at which edge, at spaced apart points, two ears 2 are struck outwardly from the middle of the plate leaving an open space 3 between the outwardly extending ears.

The other hinge member is of sheet metal having a flat upper side 4 at the sides and free end edges of which an integral intumed flange 5 is provided, the same being widened adjacent the opposite end of the hinge making the ears 6, which, when the parts of the hinge are assembled, lie closely adjacent the inner sides of the ears 2. The top 4 of the hinge member is continued inwardly at right angles to main body thereof, making a terminal flange indicated at 7, the inner edge of which extends slightly within the edges of the ears 6. Each of the ears 6 is formed with an inwardly pressed integral short tubular bearing 8, the same being pressed from the metal of the ears.

The hinge members being placed together with the ears 6 located between the ears 2

a pintle rod 9 may be passed through suitable openings in said ears 2 and through the tubular bearings 8 heretofore described. The ends of the rods being headed or riveted over, a firm and secure hinge or pivotal connection is made between the two parts of the hinge.

By reason of the outward extension of the ears 2 from the plate 1, which when applied to a refrigerator is attached to the door casing or jamb, the other member of the hinge is located in a plane a distance outward from the plane of the plate 1, this taking care of the so-called "rise" of the door which is common in refrigerator doors. The tubular bearings at 8 make a relatively wide bearing surface for the rod 9, all tending to a more substantial and durable hinge and one which will last longer in service. The flat upper sides of the plate 1 and of the door hinge member connected thereto facilitate the finishing of the hinge members and buffing and polishing in the operation of nickeling the same. All other surfaces are rounded and readily acceptable to buffing and polishing machines. The hinge has proved exceptionally satisfactory in practice. The invention is defined in the appended claims and is to be considerable as comprehensive of all forms of structure coming within their scope.

We claim:

1. In a hinge, a hinge member comprising a flat plate having two spaced apart ears turned outwardly therefrom in spaced apart relation, a second hinge member comprising a flat metal plate having an intumed flange at both sides and one end of the plate, said flange at each side and near the opposite end of the plate being widened to provide ears to lie between the ears of the first hinge member, and said plate at said opposite end thereof being turned inwardly at right angles a distance equal substantially to the width of the ears on said second member and covering the adjacent ends thereof, and a hinge pin passing through all of said ears.
2. In a hinge, a hinge member comprising a flat plate having two spaced apart ears extending outwardly therefrom, a second hinge member comprising a flat metal plate having an intumed reinforcing flange at both sides and around one end of the plate, said flange at each side and near the opposite end of the plate being widened to pro-

vide ears to lie between the ears of the first hinge member, and said plate at said opposite end thereof being turned inwardly at right angles substantially to the plane of the
5 outer side of the first hinge member, and a hinge pin passing through all of said ears, the upper ends of the first mentioned ears and the outer side of the second hinge member lying in substantially the same plane.
In testimony whereof we affix our signatures.

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