Feb. 27, 1934. J. TELLER ET AL 1,948,775

CONCEALED HINGE FOR REFRIGERATORS

Filed Jan. 24, 1931 2 Sheets-Sheet 1

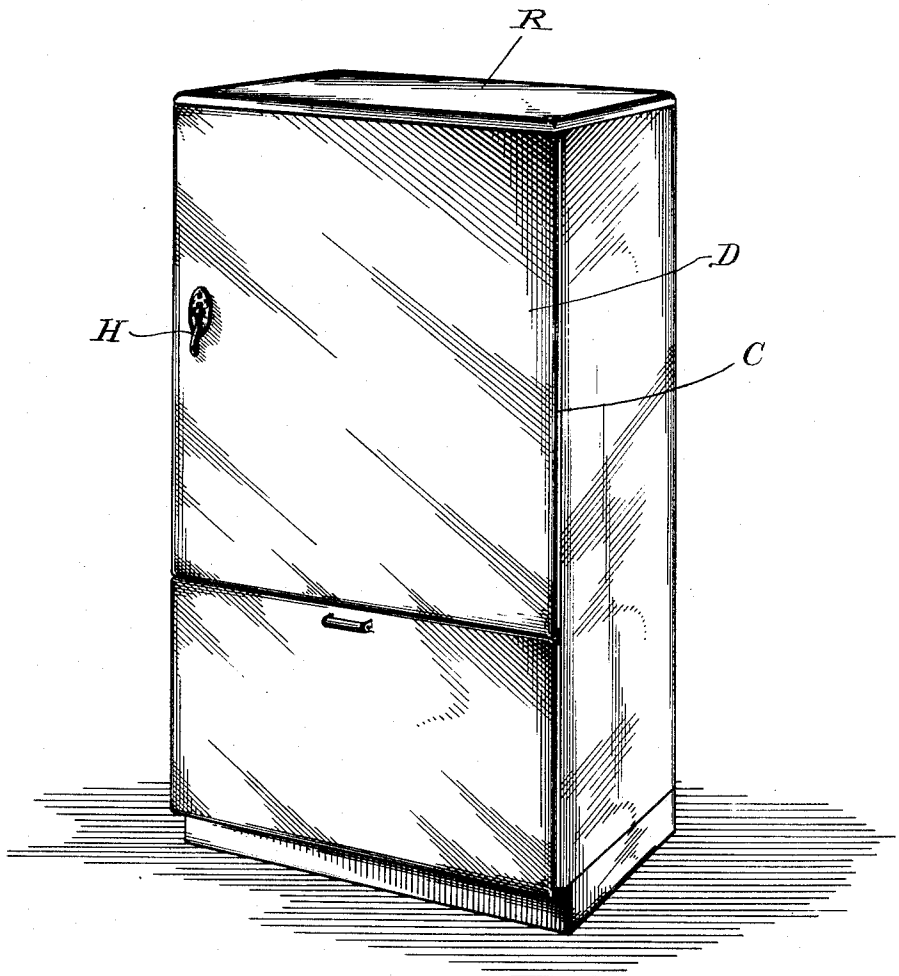


Fig. 1.

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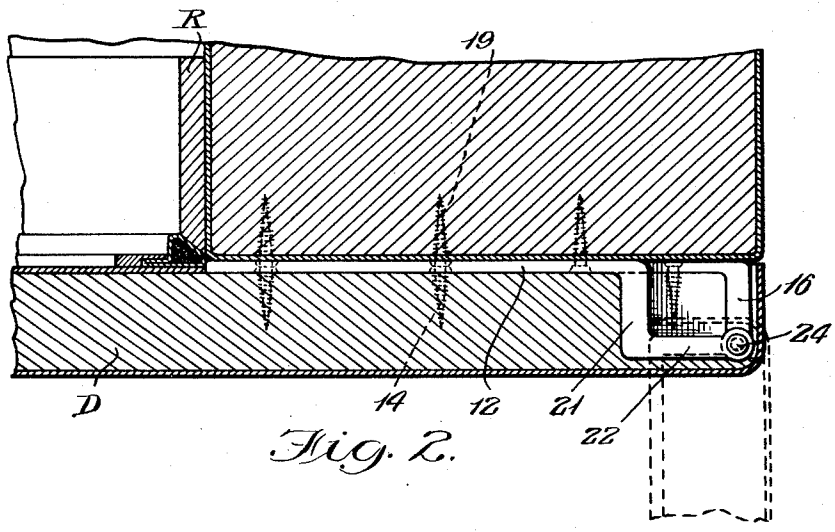


Fig. 2.

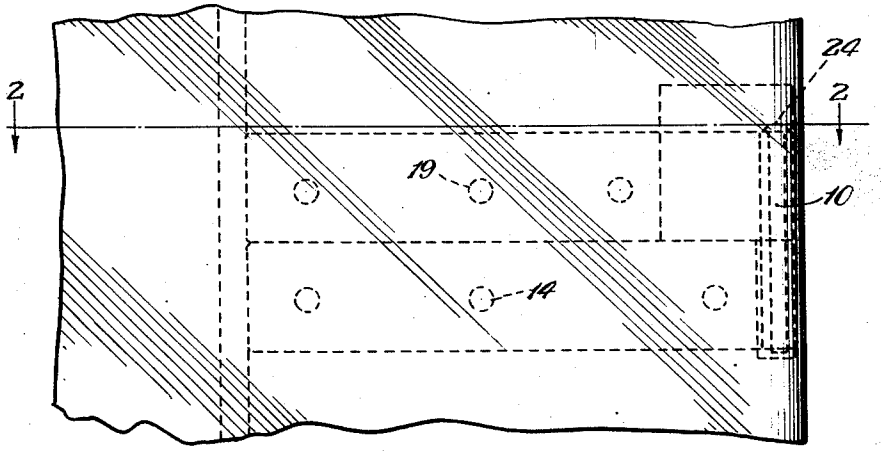


Fig. 3.

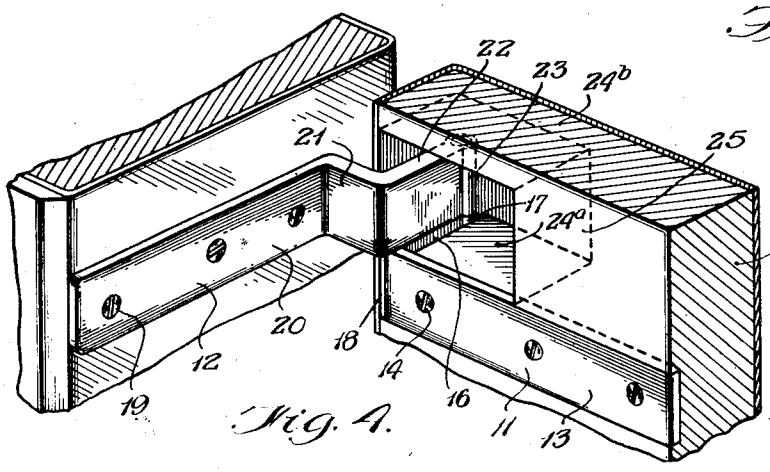


Fig. 4.

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UNITED STATES PATENT OFFICE

1,948,775

CONCEALED HINGE FOR REFRIGERATORS

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Application January 24, 1931. Serial No. 511,048

1 Claim. (Cl. 16—135)

The present invention relates to a new and useful improvement in hinges, and has for one of its objects the provision of a hinge of the concealed type.

Another purpose of the invention is the formation of a hinge of the character indicated of simple construction and of few structural elements.

A still further aim is the production of a concealed hinge having stationary and movable hinge sections so arranged as to eliminate the necessity of cutting door flanges.

An additional object is the construction of a hinge of the type specified capable of ready application to cabinets, such as refrigerator chests, whereby the front door of the chest will be characterized, when in closed position, by a lack of protuberances or projecting parts other than the door handles.

With these and other objects in view as will be apparent to those skilled in the art to which the invention appertains, reference is made to the accompanying drawings forming part of the disclosure and showing a preferred embodiment, and in which

Figure 1 is a perspective view of a refrigerator chest, showing the invention applied to a door thereof, so that no hinge is visible,

Figure 2 is a view taken on line 2—2 of Figure 3, showing the hinge in plan and fragments of the door and chest to which the hinge is applied, in section,

Figure 3 is a fragmentary front elevation of the chest, showing the hinge and its associated recess in dotted lines,

Figure 4 is a perspective view of the hinge, showing it in operative position upon a door of a refrigerator chest.

The character R designates a refrigerator chest having the invention applied thereto. As will be apparent from an inspection of Figure 1, no projections other than the handle H are visible upon the door or closure D. The latter swings about the corner C of the cabinet or chest R.

The hinge designated as a whole by the numeral 10 comprises two hinge sections or straps 11 and 12 respectively. The section 11 consists of a flattened strip portion 13 secured as by screws 14 to the door or closure D of the chest, and having an angular arm 16 terminating in a knuckle 17. The strip and its arm are structurally integral, and the arm and its knuckle 17 are fitted in a groove 18 adjacent the edge of the door. The strip 13 and its arm and knuckle constitute the movable part of the hinge assembly.

The hinge section 12 is rigidly attached to the chest R by screws 19, and this section comprises in addition to the flattened strip portion 20, two angular extension elements 21 and 22, the former substantially normal and the latter parallel to but offset with respect to the strip portion 20. The extension element 22 terminates in a knuckle 23 positioned above the knuckle 17, both knuckles having a pivot pin or pintle 24 passed therethrough.

The numeral 24^a designates a recess formed within the closure D for receiving the extension elements 21 and 22. In the closed position of the closure the extension element 22 lies adjacent the wall 24^b defining the back of the recess, while the extension element 21 lies adjacent the wall 25 defining a side of the recess. It will be noted that the recess is located vertically above the strip section 13 so that in the closed position of the closure D, the latter will lie flush against the chest R with the hinge sections 12 and 13 vertically disposed with respect to each other. In the open position of the closure it is separated from the chest as will be apparent from an inspection of Figure 4.

From the above description it will be seen that I have constructed a hinge of a simple character which eliminates door flanges, yet is well adapted to accomplish the desired results. Each closure or door D will be equipped with a plurality of such hinges, spaced from each other, as is common practice, so as to form a firm assembly upon which the door may be mounted for swinging movement. It will also be seen that the extension element 22 constitutes a stop for the closure to limit the outward swinging movement thereof.

Various modifications and changes may be made in my invention without departing from the spirit thereof, and it is my intention to be limited only as may be necessary by the scope of the claim appended hereto.

We claim:

A flat leaf type hinge comprising a pair of leaf elements each having a knuckle and arranged in superposed edge-to-edge relationship adjacent the knuckles, a pintle connecting the knuckles of said leaves for pivotal movement thereon, one element of the hinge having substantially right angularly extending continuous portions, the angular portion remote from the knuckle constituting an attaching means, and the other leaf element having a section intermediate its ends angularly disposed with respect thereto providing an offset attaching section remote from its knuckle adapted to extend in a plane parallel to the plane of the attaching portion of the other leaf element, whereby said leaf elements are constantly in mutually contacting edge-to-edge relationship at points remote from the knuckles in all operative positions.

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