April 19, 1932. G. W. ALDEEN 1,854,440

HINGE SUPPORT

Filed July 5, 1929

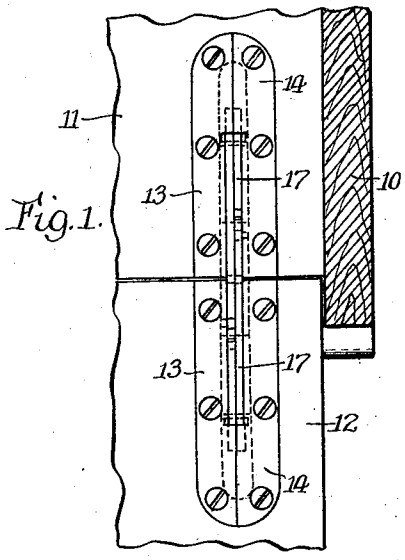

Fig. 1.

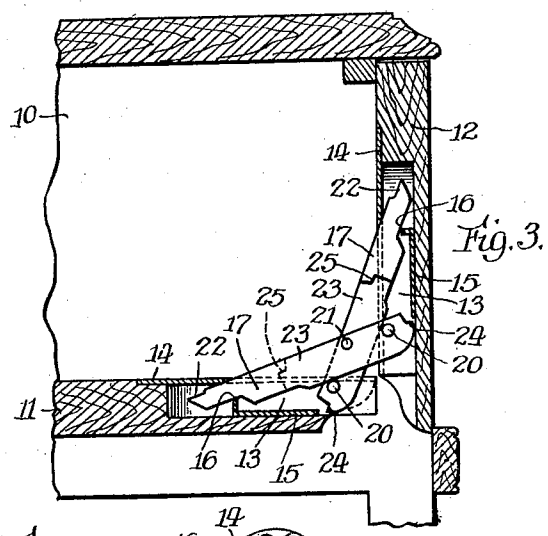

Fig. 3.

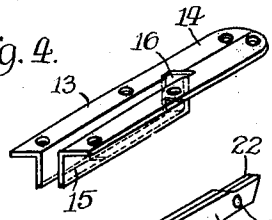

Fig. 4.

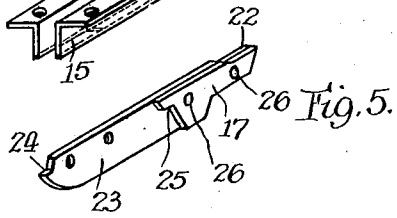

Fig. 5.

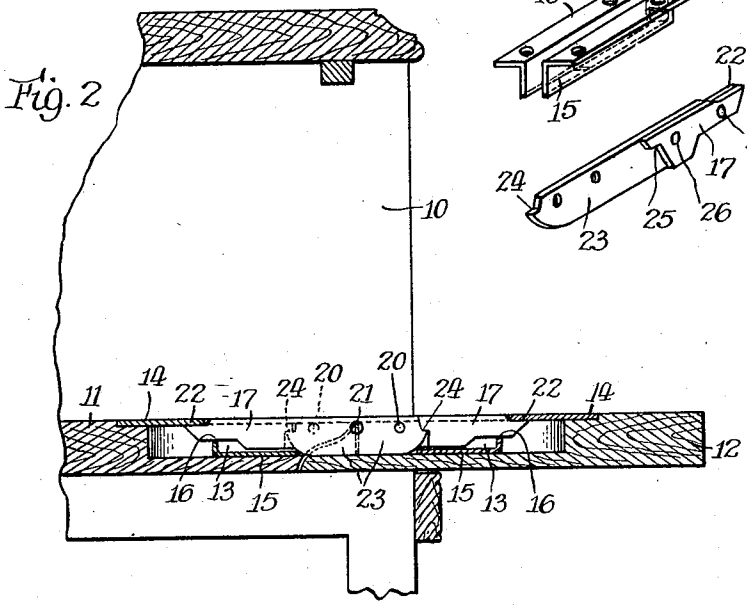

Fig. 2

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Patented Apr. 19, 1932 1,854,440

UNITED STATES PATENT OFFICE

GEDOR W. ALDEEN, OF ROCKFORD, ILLINOIS, ASSIGNOR TO AMERICAN CABINET HARDWARE CORPORATION, OF ROCKFORD, ILLINOIS, A CORPORATION OF ILLINOIS

HINGE SUPPORT

Application filed July 5, 1929. Serial No. 376,121.

The invention relates generally to a hinge support for furniture or the like and more particularly to a means for hinging fall-boards or drop-covers of cabinets, desks, radio cabinets or similar articles, which are hinged about an axis lying substantially along the front edge of the top surface of the floor of the cabinet.

The primary object of the invention is to provide a new and improved hinge support for such a fall-board comprising members which are adapted to be mounted in aligned mortises cut in the floor of the cabinet and in the fall-board at right angles to the fall-board axis so that when the fall-board is open the parts of the hinge support present an even surface flush with the upper surfaces of floor and the fall-board, the parts of the hinge support being made of sheet metal and hence permitting an inexpensive and simple construction.

More specifically, I aim to provide a hinge support for the fall-board of a cabinet comprising two duplicate members adapted to be mounted in mortises cut in the floor of the cabinet and the fall-board respectively in aligned positions at right angles to the fall-board axis, to duplicate levers pivoted together, the inner end of each lever having means arranged to abut against the other lever when the fall-board is open to limit the pivoting of the levers, said levers being mounted with their inner ends pivotally connected one to each member and with their outer ends sliding in the other members and arranged to abut against the outer ends of the members, the pivots and the abutments limiting the opening of the fall-board.

Other objects and advantages will become apparent from the following description and from the accompanying drawings, in which:

Figure 1 is a fragmentary plan view of a cabinet with the fall-board open and embodying an exemplary form of the invention.

Fig. 2 is a fragmentary side elevation of the cabinet, partly in section, with the fall-board open.

Fig. 3 is a fragmentary side elevation, partly in section, with the fall-board closed.

Fig. 4 is a detail view of one of the mounting members.

Fig. 5 is a detail view of one of the connecting levers.

While the invention is susceptible of various modifications and alternative constructions, I have shown in the drawings and will herein describe in detail the preferred embodiment, but it is to be understood that I do not thereby intend to limit the invention to the specific form disclosed, but intend to cover all modifications and alternative constructions falling within the spirit and scope of the invention as expressed in the appended claims.

As shown in the drawings, the cabinet comprises a side wall 10, a floor 11 and a fall-board 12. The hinge support herein described is adapted to hinge the fall-board 12 about an axis lying substantially along the front edge of the top surface of the floor 11. While it is contemplated that two such hinge supports will be used, one adjacent each end of the fall-board, only one is shown.

The hinge support illustrated herein comprises two duplicate members 13 adapted to be mounted in mortises cut in the floor 11 and the fall-board 12 respectively in alined positions at right angles to the fall-board axis, and a pair of levers for hinging the fall-board to the floor. Each member 13 comprises a channel-shaped portion 15 formed by downwardly extending sides and having an apertured end wall 16 and flanges 14 on each side and the outer end of the channel-shaped portion 15, the flange on the outer end forming the upper edge of the aperture. The flanges 14 are so mounted in the mortise as to lie flush with the upper surface of the fall-board 12 or floor 11.

To hinge the fall-board to the floor, two duplicate levers 17 are provided and are pivoted together at 21. Each lever has a flat strip of metal of substantial thickness riveted at 26 to one side adjacent the outer end thereof. The inner end of each lever has a lip 24 arranged to abut against a corresponding portion 25 on the strip of metal on the other lever, when the fall-board 12 is open, to limit the pivoting of the levers. The outer end

of each lever has a portion of descreased width forming a lip 22. The levers are housed in the channel-shaped portions 15 and are adapted to lie on edge flush with the top of the members 17 when the fall-board is open. The inner ends of both levers are pivotally connected at 20 one to each member 13 with the portions of descreased width projecting through the apertured end-wall 16. The lips 22 on said portions are arranged to abut against the flanges 14 formed on the outer ends of the members to limit the opening of the fall-board and to permit the levers to lie flush with the flanges 14.

It is evident that I have provided a novel hinge support adapted to be mounted in the floor and fall-board of a cabinet in such a position that the parts present an even surface flush with the upper surfaces of the floor and the fall-board when the latter is open, the parts being such that they may be made of sheet metal and hence permitting an inexpensive and simple construction.

I claim as my invention:

1. A hinge support for a fall-board of a cabinet comprising, in combination, two duplicate members attachable to the fall-board and floor of the cabinet respectively, and two duplicate levers each of which is pivotally attached to one of the members and enters slidably into the other member, each lever being pivoted to the other lever and having one portion adapted to abut against the other lever and another portion adapted to abut against the member in which it slides whereby to limit the motion of the levers relative to each other and to the members.

2. A hinge support for a fall-board of a cabinet comprising, in combination, two duplicate members attachable to the fall-board and floor of the cabinet respectively, and two duplicate levers each of which is pivotally attached to one of the members and slides in the other member, each lever being pivoted to the other lever and having a portion adapted to abut against a part of the member in which it slides whereby to limit its motion relative to said member.

3. A hinge support for the fall-board of a cabinet comprising, in combination, two duplicate members attachable to the fall-board and floor of the cabinet respectively, and two duplicate levers each of which is pivotally attached to one of the members and slides in the other member, each lever being pivoted to the other lever and having a portion adapted to abut against the other lever whereby to limit the motion relative to each other.

In testimony whereof, I have hereunto affixed my signature.

GEDOR W. ALDEEN.