Aug. 19, 1924.

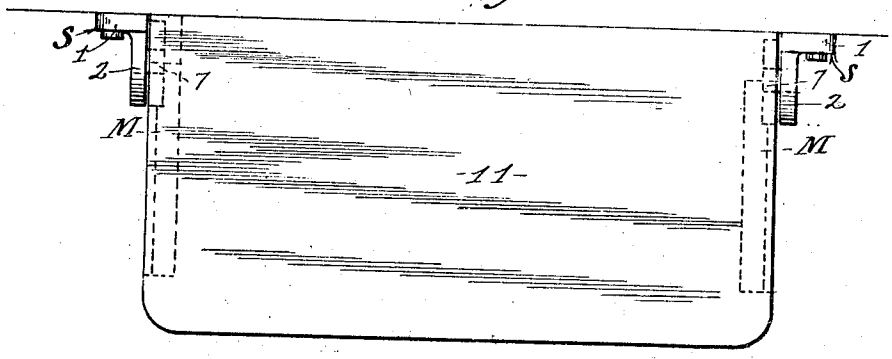
J. GERVAIS, JR

1,505,192

HINGE

Filed Sept. 17, 1921

Fig. 1



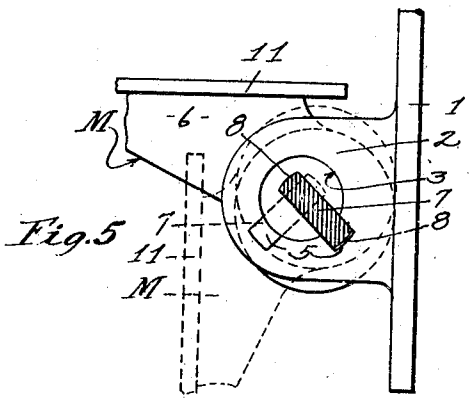


Fig. 5

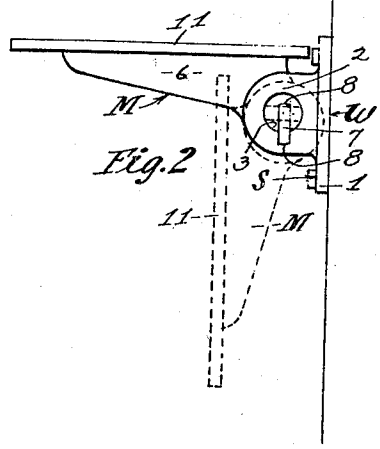


Fig. 2

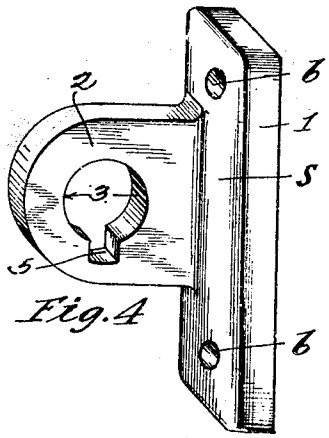


Fig. 4

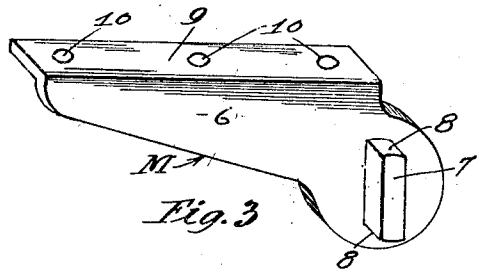


Fig. 3

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UNITED STATES PATENT OFFICE.

JOSEPH GERVAIS, JR., OF LOS ANGELES, CALIFORNIA.

HINGE.

Application filed September 17, 1921. Serial No. 501,485.

To all whom it may concern:

Be it known that I, JOSEPH GERVAIS, Jr., a citizen of the United States, and a resident of Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Hinges, of which the following is a specification.

This invention relates to hinges in general, and more particularly to a form of hinge adapted to be employed for supporting devices such as shelves and the like, on the wall or at other points, and the primary object is to provide in a device of the character described, a simple, economical and effective hinge, one member of which is adapted to be stationarily held on a supporting wall or standard, and the other member to be attached to a shelf or the member to be supported.

A further object is to provide in a hinge of the character mentioned, relatively stationary and movable members hingedly connected together, and so arranged that the movable members of the hinge may be held and locked in different positions. In such a device the movable members may be provided with trunnions with segmental portions cut away on opposite sides, and leaving a diametrically disposed tongue adapted to be pivotally held within apertures on the stationary members, and said apertures are provided with peripheral notches wherein one or the other edges of the said tongues are adapted to seat for holding the movable members in open or closed position.

In the consideration of this invention reference is had to my application for patent for improvements in piano attachments, filed October 1, 1919; Serial Number 327,789, in which a hinge of substantially the same character as shown and described herein is employed for supporting a foot board on a piano.

I attain the above and other objects of my invention by means of the mechanism shown in the accompanying drawings, in which:

Fig. 1 is a plan of a shelf which is arranged to be supported by hinges embodying my improvements.

Fig. 2 is an end view of the same.

Fig. 3 is a perspective view of one of the movable hinge members.

Fig. 4 is a perspective view of one of the stationary hinge members; and Fig. 5 is an end view of the device shown in Figs. 1 and 2, with the exception that a pair of locking notches is provided in the bend of stationary hinge members instead of the hinge notches as shown in Fig. 2.

In the preferred embodiment of my invention, which is subject to substantial modification as to form an arrangement without departing from the spirit of my invention or enlarging the scope beyond the appended claims, my improvements may consist of relatively stationary and movable hinge members S and M respectively. The stationary member S may be provided with a suitable base 1 having screw holes *b* formed therein, by means of which the said member may be attached to a wall, as at W or to other forms of supporting means. The member S also has a lug 2 extending at right angles from the one side of the base 1, and provided with a bore 3 which may have one or more rectangular peripheral notches 5 formed at a suitable point therein.

The movable member M has a web 6 on which is formed or to which is attached a trunnion 7, extending from the outer side of the web and partaking of the form of the diametrically disposed tongue, with the facets 8, 8 thereon of arcuate form corresponding to and adapted to fit into the bore 3 of the lug 2 on member S. Member M also has a right angularly disposed flange 9 with screw holes 10, 10, etc., formed therein, by means of which a shelf as at 11 may be attached thereto.

In some cases only one set of the hinge members S and M may be necessary for supporting the shelf 11 or other device, or two sets of said members may be provided as shown in Fig. 1 as may be found necessary and convenient.

In Fig. 2 I have shown only one of the notches 5 formed in the stationary members S, and said notch is so positioned that when the shelf 11 occupies a horizontal plane, as shown, the lower facet 8 of the trunnion 7 of member M will seat by gravity into said notch, and thus hold the shelf 11 in proper position for use. When the shelf is not in use the same may be dropped into natural position, as indicated by broken lines in Fig. 2, the trunnion 7 in such case being rotated within the lug 2 of the stationary member S, after having first been elevated out of engagement with the notch 5.

In Fig. 5 I have shown a modification of

the structure described, in which I provide a pair of the notches 5 arranged at an angle of 90 degrees, so that when the shelf 11 occupies the horizontal plane the trunnion 7 may be forced downwardly and rearwardly at an angle into the rearmost notch 5 for holding the shelf in position for use. When the shelf 11 is turned downwardly, as indicated by broken lines in Fig. 5, the opposite facet 8 of the trunnion 7 will seat in the foremost notch 5 of the lug 2, and thus hold the shelf in the other position.

It will be obvious that the arrangement of the trunnions and the notches which hold the movable hinge members against movement may be modified to suit any conditions of use, and I make no claim to the specific arrangement shown and described herein. Furthermore, it will be apparent that I may adapt my hinge to other uses from that described, especially where the hinges are arranged on a horizontal axis.

What I claim is:

1. A hinge including a fixed member having a bore therein, provided with a peripheral notch, and a movable member comprising an arm having a hub portion with a trunnion centrally positioned thereon, said trunnion having its sides flattened and its edges adapted to rotatably engage the periphery of the bore in said fixed member, and said trunnion being adapted to seat in the notch in said bore for preventing the movement of said movable member.

2. A hinge comprising a stationary member having a base adapted for attachment to a supporting member, and a lug extended outwardly therefrom and provided with a bore therein, and a notch formed in the periphery of said bore; and a movable member comprising a supporting arm and a trunnion extending at right angles therefrom adapted to seat in the bore of said stationary member, and having flat portions adapted to engage the notch in said bore for the purpose described.

JOSEPH GERVAIS, Jr.

Witnesses:
Irene Breen,
Chas. Bagg.