

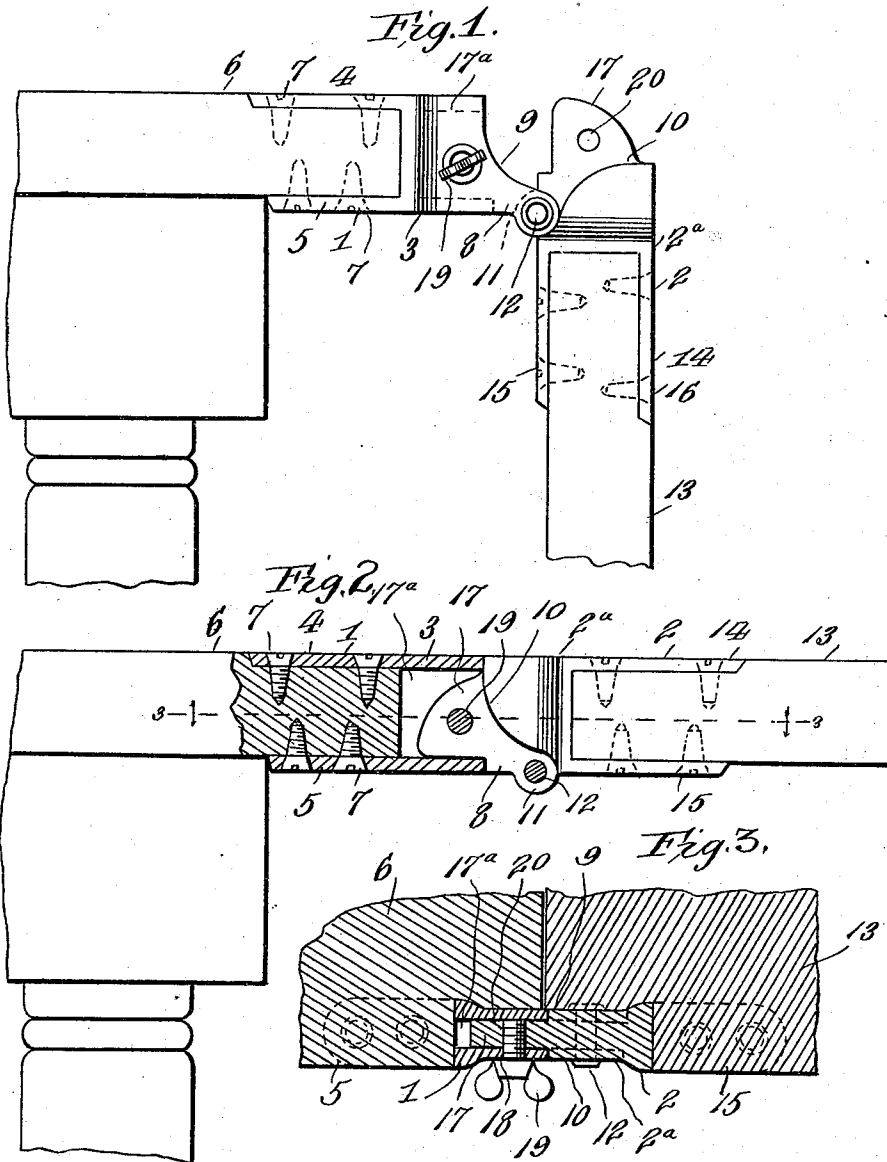
M. L. MILLER.

HINGE.

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1,199,732.

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HINGE.

1,199,732.

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To all whom it may concern:

Be it known that I, MARY L. MILLER, a citizen of the United States, residing at Decatur, in the county of Macon and State of Illinois, have invented new and useful Improvements in Hinges, of which the following is a specification.

This invention relates to hinges, the primary object being to provide a hinge which is adapted particularly for use upon extension ladders, folding tables, box lids, and the like, wherein separate means is ordinarily employed for securing the pivotally connected elements of the structure in extended position, in each instance, my improved hinge being provided with means for locking its leaves against movement when extended.

A further object of the invention is to provide a hinge of the character set forth which is extremely simple in construction so as to be inexpensive in cost of manufacture and easy to operate.

The invention consists in the features of construction, combination, and arrangement of parts, hereinafter fully described and claimed, reference being had to the accompanying drawing, in which:

Figure 1 is a fragmentary side elevation of a table showing a hinge constructed in accordance with the invention attached thereto for mounting one of its folding leaves, the said leaf being in its folded position; Fig. 2 is a similar view showing the hinge locked so as to secure the table leaf in extended position; and, Fig. 3 is a detail sectional view taken transversely through the hinge when closed.

In the drawing, a hinge constructed in accordance with the invention is shown in use upon a folding table for mounting one of its swinging leaves. It is to be understood, however, that the hinge may be employed in various other capacities, such as for connecting the pivoted parts of ladders, articles of furniture, boxes, shelving, and the like.

The hinge comprises the companion pivoted members 1 and 2. The member 1 includes a substantially rectangular body portion 3, which is hollow, and the superimposed, relatively spaced attaching arms 4 and 5 which project from one edge of the body and are adapted to embrace one of the members to be pivotally connected which in this instance is the stationary portion 6 of a

table top, the said arms being secured thereto by means of the attaching screws 7. The body 1 of this particular pivot member is provided with the laterally spaced supporting projections 8 which extend at right angles with respect to the arms 4 and 5. These projections have inclined upper faces 9 for engagement with the inclined shoulders 10 provided upon the sides of the member 2, the last-named member being provided with a lug 11 which is pivoted between the ends of the projections 8 upon the companion member 1 by means of the transverse pivot pin 12. The body 2^a of the member 2 is solid in construction and is formed from the same metal as the member 1, which is preferably brass or iron. The member 2 is connected with the folding leaf 13 of the table by means of the superimposed arms 14 and 15, which extend from its body oppositely with respect to the lug 11, and the attaching screws 16 engaged within the said arm.

A locking extension 17 is formed on the inner face of the body 2^a of the member 1 in spaced relation to its exterior faces and is equal in thickness to the lug 11, in order that it may engage within the recess 17^a provided by the exterior of the body 3 of the member 1 when the hinge is extended so that the table leaf 13 is horizontally disposed. In this position, the inclined shoulders 10 of the member 2 will rest upon the faces 9 of the supporting projections 8 on the member 1. In case a heavy object is mounted upon the table directly above the hinge, the projections 8 will sustain a considerable portion of the weight so as to obviate excessive strain upon the pivot pin 12. One of the side walls of the body portion 3 of the member 1 is provided with a threaded opening 18 in which a locking thumb-screw 19 is engaged. The inner end of this screw is adapted to be engaged within the threaded transverse opening 20 provided in the locking extension 17 of the member 2, when the said extension is disposed within the body of the coacting member 1.

From the foregoing description, taken in connection with the accompanying drawing, it should be apparent that I have provided a simply constructed and efficient hinge which may be used in various ways for pivotally connecting any desired relatively movable members, the pivoted members of

the hinge being adapted to be secured in extended position when this is required.

What is claimed is:

5 A hinge of the class described comprising a pair of elongated pivoted members adapted to be disposed in alinement with each other, one of the said members being provided with a recess disposed inwardly of the pivot having a flat bottom wall terminating in spaced relation to the pivot, and
10 a lug provided upon the other member outwardly of the pivot for reception within the recess of the first member and having a straight lower edge for engagement with
15 the bottom wall of the recess, the upper edge of the lug being curved concentric to the

pivot and merging into the said lower edge, the lug being provided outwardly of the pivot and beneath the said lower edge with a shoulder for engagement with the outer edge of the bottom wall of the first member, and means for securing the said lug detachably within the recess of the first member to secure both members against swinging movement when extended in alinement with each other. 20 25

In testimony whereof I affix my signature in presence of two witnesses.

Miss MARY L. MILLER.

Witnesses:

W. B. SWNNEY,
BEULAH ENDICOTT.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."