J. K. HINSON.

CHAIR ROCKER.

APPLICATION FILED SEPT. 24, 1920.

1,367,390. Patented Feb. 1, 1921.

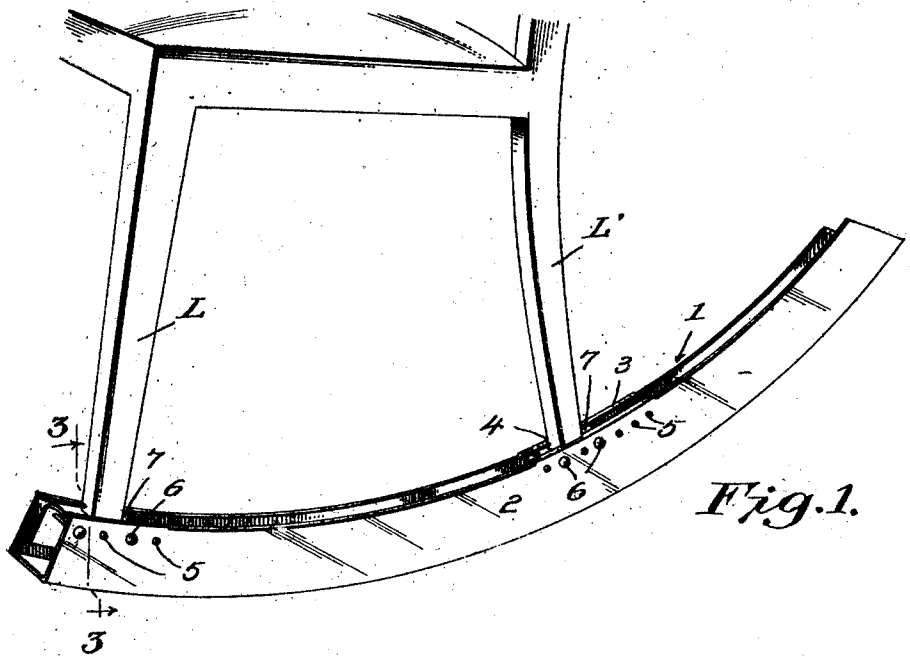


Fig. 1.

Fig. 2.

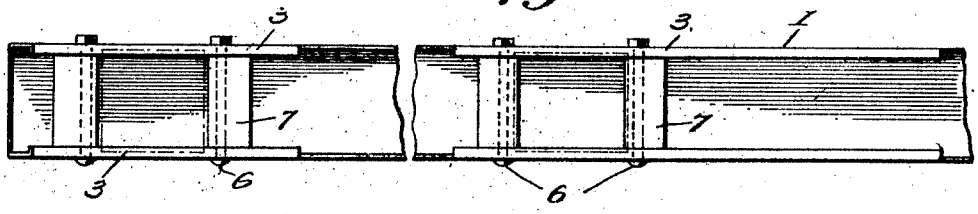
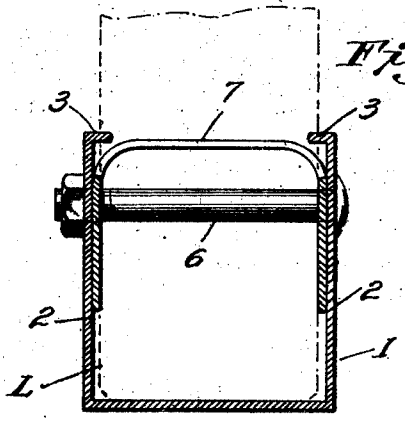


Fig. 3.



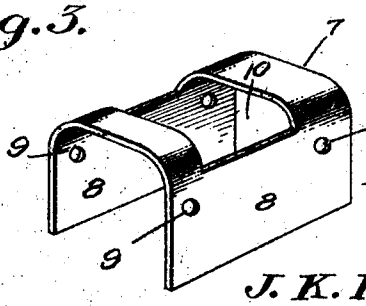


Fig. 4.

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CHAIR-ROCKER.

1,367,390. Specification of Letters Patent. Patented Feb. 1, 1921.

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To all whom it may concern:

Be it known that I, JOHN K. HINSON, a citizen of the United States, residing at Sumter, in the county of Sumter and State of South Carolina, have invented certain new and useful Improvements in Chair-Rockers, of which the following is a specification.

This invention relates to chair rockers and the object thereof is to provide a detachable metal rocker having a combined rocker reinforce and leg connector.

Another object is to provide a non-breakable rocker of this character which is simple in construction and cheap to manufacture and which is adjustable to fit chairs of different sizes.

With these and other objects in view, the invention consists in certain novel features of construction as hereinafter shown and described, and then specifically pointed out in the claims, and in the drawings illustrative of the preferred embodiment of the invention.

In the accompanying drawing:

Figure 1 represents a perspective view of a portion of a chair equipped with one of the rockers constituting this invention.

Fig. 2 is a plan view of the rocker detached with parts broken out for convenience in illustration.

Fig. 3 is a transverse section taken on the line 3—3 of Fig. 1, and,

Fig. 4 is a detail perspective view of the leg connector and rocker reinforce.

In the embodiment illustrated, the rocker 1 constituting this invention is composed of a longitudinally curved piece of channel-shaped metal open at its top, the sides 2 of which are disposed parallel and are provided at corresponding points with inturned flanges 3, said flanges being arranged at the points where the legs L and L′ of a chair are to be connected. These legs L and L′ are provided on their opposed side faces with transversely extending grooves 4 to receive the flanges 3 when the rocker is connected with the legs. The side members 2 of the rocker are also provided with a plurality of longitudinally spaced bolt holes 5 arranged near the upper edges of the flanges, those in one flange registering with those in the other and designed to receive clamping bolts 6 which pass through the flanges and through apertures 9 in the side members 8 of inverted U-shaped connectors 7. These connectors 7 have cutout portions 10 in the connecting web thereof for the reception of the chair legs, the distance between the side members 8 of said connector being slightly less than that between the side members 2 of the rocker so that these connectors will snugly fit in the rocker between said side members.

In the use of this rocker the chair legs are first inserted through the connectors 7 and said connectors positioned in the rocker and moved longitudinally under the flanges 3, the latter entering the grooves 4 in the legs as is shown clearly in Fig. 1. After the legs with the connectors attached have been so positioned the bolts 6 are passed through the apertures 5 in the rocker and those 9 in the connector being positioned one on one side of the leg and one on the other. The nuts on the bolts are then screwed inward and clampingly connect the rocker to the chair legs avoiding all possible danger of them becoming separated.

The apertures 9, two of which are formed in each leg or side member 8 of the connector 7, are arranged a distance apart to correspond to the distance between the alternate apertures 5 in the rocker members 2 so that the connectors may be adjusted longitudinally relatively to the rockers to adapt the rockers to be used on chairs having legs arranged different distances apart.

These rockers 1 may be composed of any suitable metal, preferably sheet iron or steel, or they may be made of aluminum and owing to their peculiar construction and the means for connecting them to the chair legs they are rendered practically unbreakable and they cannot be detached without removing the bolts 6, the nuts on the bolts being preferably secured by cotter pins or otherwise.

The members 7 perform the double function of connectors for the legs and reinforces for the rocker at the points of connection with the leg, the flanges 3 also assisting in strengthening the rocker at this point as well as for engaging the grooves of the legs to retain the rocker against vertical movement on the legs.

The preferred embodiment of the invention is disclosed in the drawings and set

forth in the specification, but it will be understood that any modifications within the scope of the claims may be made in the construction without departing from the principle of the invention or sacrificing any of its advantages.

What is claimed is:

1. A hollow metal chair rocker open at its top, the sides thereof being provided at corresponding points with inturned flanges to enter slots in the chair legs with which the rocker is to be connected, leg connectors mounted between the sides of the rocker at the flanged portions thereof, and means for clampingly securing said connectors engaged with said legs.

2. A hollow metal chair rocker open at its top, inverted U-shaped connectors mounted between the sides of the rocker and having a cutout portion in each web thereof to receive a chair leg to be connected to the rocker, and bolts passing through the legs of said connector and the side walls of the rocker for clampingly uniting them.

3. A hollow metal chair rocker open at its top, the sides thereof being provided at corresponding points with inturned flanges to enter the slots in the chair legs to be connected with the rocker, said sides having a plurality of longitudinally spaced alined bolt holes near the upper edges thereof below the flanges, inverted U-shaped leg connectors adapted to be positioned in the rocker at the flanged portions thereof and having apertures to register with the bolt holes in the rocker, the webs of said connectors being cut out for the passage therethrough of the legs to which the rocker is to be secured, and bolts passing through the rocker and the connectors on opposite sides of each leg.

In testimony whereof, I affix my signature hereto.

JOHN K. HINSON.