D. GARST.

REVERSIBLE SEAT STOOL.

APPLICATION FILED OCT. 6, 1921.

1,407,403. Patented Feb. 21, 1922.

Fig. 1.

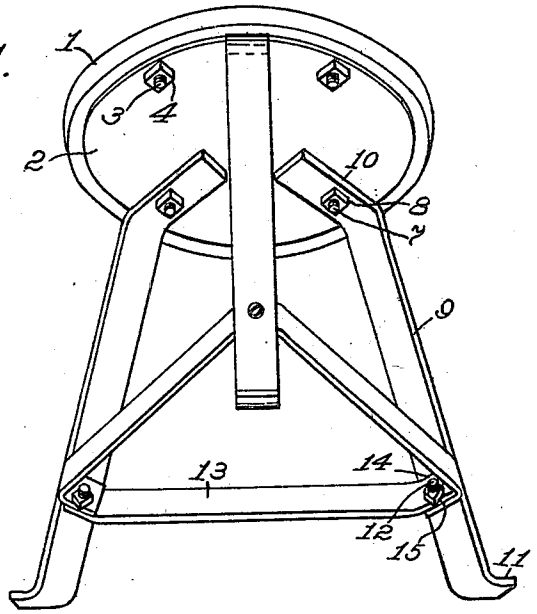
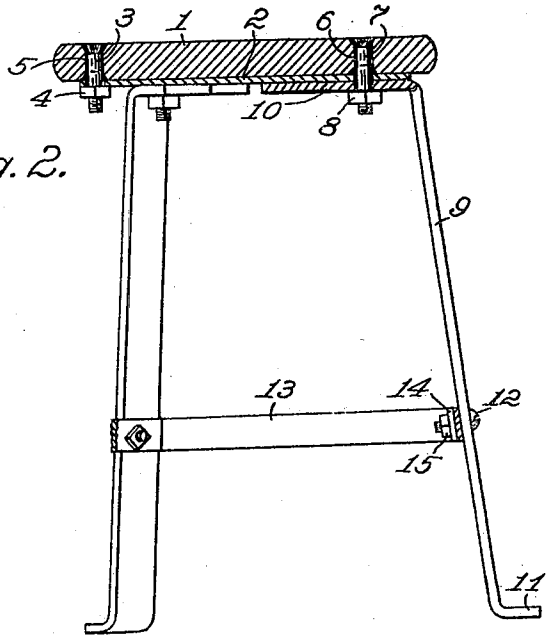


Fig. 2.



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UNITED STATES PATENT OFFICE.

DUDLEY GARST, OF WATERLOO, IOWA.

REVERSIBLE-SEAT STOOL.

1,407,403. Specification of Letters Patent. Patented Feb. 21, 1922.

Application filed October 6, 1921. Serial No. 505,899.

To all whom it may concern:

Be it known that I, DUDLEY GARST, a citizen of the United States of America, and a resident of Waterloo, Blackhawk County, Iowa, have invented certain new and useful Improvements in Reversible-Seat Stools, of which the following is a specification.

My invention pertains to improvements in stools, and particularly to stools having reversible seats, and the object of my improvement is to supply a supporting and strengthening member for the reversible seat, together with rigidly connected supports or legs therefor, thus providing a light but permanent structure.

This object has been accomplished by the means which are hereinafter described and claimed, and which are illustrated in the accompanying drawings, in which Fig. 1 is a perspective view of my improved stool as tilted over to one side, and Fig. 2 is a vertical medial section of the stool.

The circular seat 1 of said stool is shaped from a solid block of wood with rounded edge of symmetrical form, and is provided with a number of similar bolt-holes 5 and 6, both ends of which are reamed out to permit of reversing the seat, and of fitting the conical heads of the bolts 3 and 7 respectively in the reamed out cavities, at either face. These bolts are passed downwardly through said bolt-holes and through registering bolt-holes in a rigid steel circular plate 2 which is concentrically positioned upon the under face of the seat 1 contactingly, Nuts 4 serve to secure the bolts 3 to hold plate 2 tightly against the seat.

I have furnished a plurality of legs 9 of bar iron, which may be as shown, three in number, or any desired number. The lower ends of the legs are bent outwardly at 11 to serve as feet, while the upper ends 10 are bent inwardly to underlie the plate 2 and are orificed to receive the bolts 7 which latter are secured by the nuts 8.

The legs are inclined outwardly slightly. They are rigidly connected intermediate their lengths by means of the cross-bars 13, whose extremities 14 are bent at a small angle to allow them to be overlapped upon the inner faces of the legs. The legs and said overlapped ends of the bars 13 are provided with registering bolt-holes to receive bolts 12 secured by nuts 15. This provides a rigid but light structure, and the seat may be reversed when worn. The circular plate 2 underlies all but a narrow margin of the seat and strongly reinforces it. The inner ends of the upper parts 10 of the legs are extended nearly to the center of said plate beyond their fastening bolts 7, these relatively long rigid extremities affording additional stiffening support to the plate.

The edge of the seat 1 is symmetrically rounded as shown, so that it presents the same rounded contour in either of reversed positions. In the manufacture of the stool, lumber is often used which may have been imperfectly cured and become warped. The seat cut therefrom is mounted on the plate 2 with the concavity of its warped surface downward, so that the bolts may draw out the warp when the nuts are tightened thereon. Reversibility of the seat permits use of such lumber, with ease of handling, and the stiff plate 2 together with the supporting terminals 10 of the legs holds the seat in its proper shape.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is:

1. In combination, a solid reversible seat with semi-circularly convexed edge, a rigid plate mounted contactingly concentrically upon the under face of said seat, legs, and means for separably securing said seat and plate to each other and to said legs rigidly.

2. In combination, a symmetrical seat block, a rigid metal plate mounted centrally upon the under face of said block, means for separably connecting said block and plate together, and legs mounted upon and secured to said plate having reinforcing extensions underlying and supporting said plate.

3. In combination, a seat-block, a rigid plate bolted to and upon the under face thereof, and connected legs under and bolted to said seat and plate, the upper ends of the legs being bent inwardly toward the center of the plate a relatively long distance beyond their bolt-connections thereto to underlie the plate contactingly and rigidly serve to reinforce and stiffen the overlying structures.

Signed at Waterloo, Iowa, this 22nd day of Sept. 1921.

DUDLEY GARST.