(No Model.)

T. CURTISS.

JOINT FOR CHAIRS.

No. 397,899. Patented Feb. 19, 1889.

Fig. 1

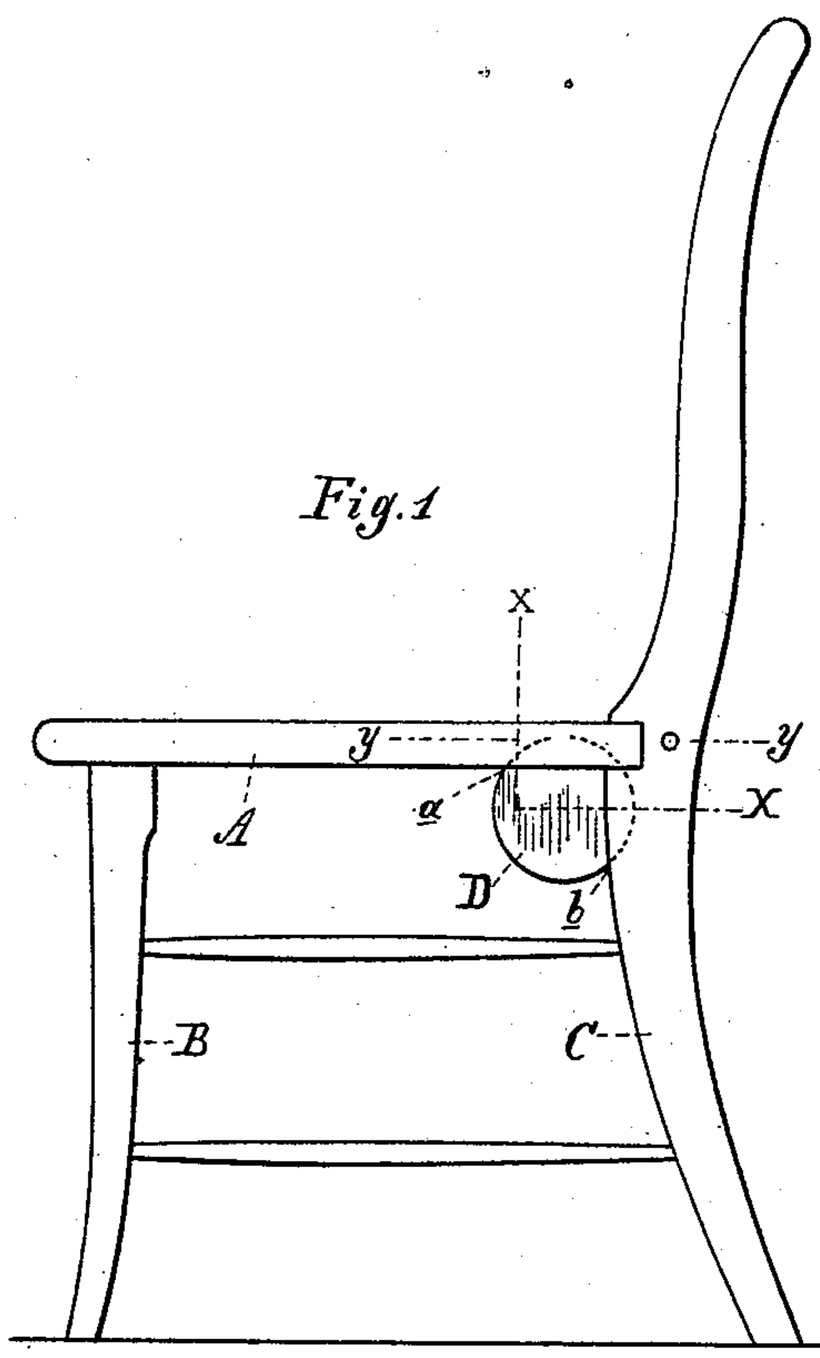


Fig. 2

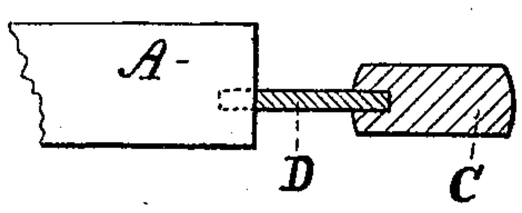


Fig. 3

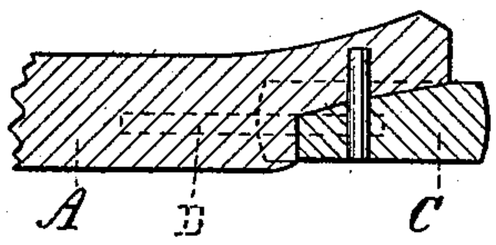
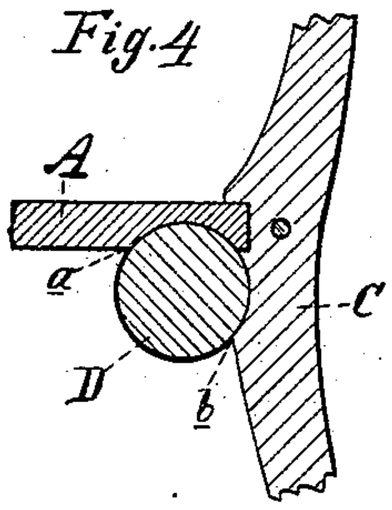


Fig. 4



Attest:
John L. Schuman.
W. M. Hulbert.

Inventor:
Theodore Curtiss,
By Thos. D. Macqueston
Atty

UNITED STATES PATENT OFFICE.

THEODORE CURTISS, OF READING, MICHIGAN, ASSIGNOR OF ONE-HALF TO SAMUEL N. CURTISS, OF SAME PLACE.

JOINT FOR CHAIRS.

SPECIFICATION forming part of Letters Patent No. 397,899, dated February 19, 1889.

Application filed May 21, 1888. Serial No. 274,551. (No model.)

To all whom it may concern:

Be it known that I, THEODORE CURTISS, a citizen of the United States, residing at Reading, in the county of Hillsdale and State of Michigan, have invented certain new and useful Improvements in Joints for Chairs, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to new and useful improvements in braces for chairs.

It is a well-known fact that it is almost impossible to make the joints of a chair-frame strong enough to withstand the hard usage to which many people subject them. This is especially the case with the cheaper classes of chairs in common use, which by many people are often inclined backward and forward in the manner of rocking-chairs, which brings the whole weight of the sitter on the joints, and thereby soon loosens and breaks the joints.

It is the object of my invention to provide a suitable brace to strengthen the joints of such chairs in a simple and economical manner, so that it will almost be impossible to weaken or destroy it by any ordinary hard usage.

To this end my invention consists in the peculiar manner of constructing and securing a wooden brace, as more fully hereinafter described.

In the drawings which accompany this specification, Figure 1 is a side elevation, and Figs. 2 and 3 are sections on line $x\,x$ and $y\,y$, respectively, in Fig. 1. Fig. 4 is a vertical central section through a chair-frame to which my improvement is applied.

A is one of the side bars of a chair-seat frame. B is the front leg. C is the hind leg, and D is my chair-brace. This chair-brace consists of a round disk of wood let into the corners of the chair-frame by cutting a suitable mortise therein of sufficient size to receive a portion of the disk, as shown. This mortise I preferably cut after the frame is connected in the usual way by means of any of the ordinary joints employed by the use of a rotary cutter-head which cuts into each side of the corner a segmental circular recess, of a size to receive a segment of the wooden disk, and I then secure the disk in place by using nothing but glue to hold it, as it will be seen that when secured there is but little tendency of the disk to work out if the distance between the extreme points a and b of the brace is about equal to the length of the diameter of the disk or preferably a little less. The whole work involves less labor and expense than the use of any other brace, and in addition thereto gives the corners thus braced a pleasing appearance, which may be further increased by ornamental work or the choice of ornamental woods, as fashion may decree. I preferably use these braces in all vertical corners of the frame, as these are the ones most affected by rough usage. I do not intend to substitute my brace for the usual means for joining the parts of the frame together, but merely use it for providing additional strength and security thereto.

What I claim as my invention is—

In a chair-brace, a wooden disk secured in segmental circular mortises in the corners of a chair-frame, substantially as and for the purpose described.

In testimony whereof I affix my signature, in presence of two witnesses, this 2d day of November, 1887.

THEODORE CURTISS.

Witnesses:
N. M. HULBERT,
JOHN SCHUMAN.