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FURNITURE LEG MOUNTING CLAMP

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Fig. 1

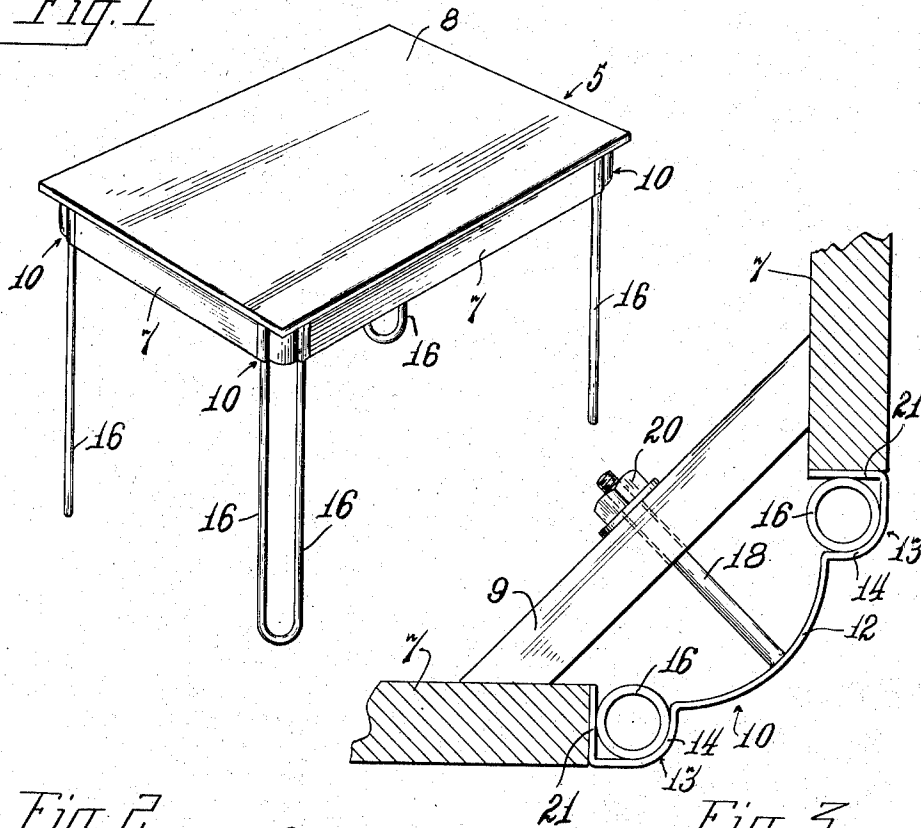


Fig. 2

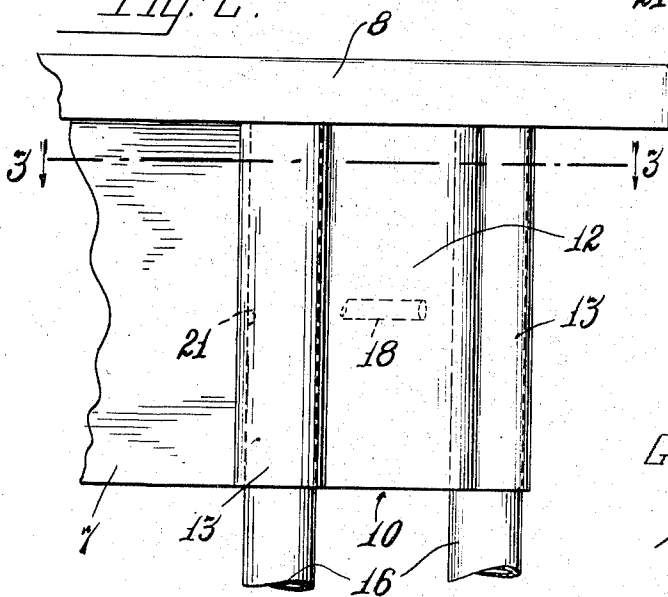


Fig. 3

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FURNITURE LEG MOUNTING CLAMP

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2 Claims. (Cl. 311-113)

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This invention relates to tubular metal furniture structure and more particularly to improvements in the means for securing the tubular legs to the furniture structure.

One of the objects of my invention is the provision of an improved means for securing tubular legs to furniture structure or the like.

A still further object of the invention is the provision of securing means for tubular legs wherein the legs may be located securely in position to rigidly sustain the top or platform portion of the furniture structure.

Other and further objects of the present invention will be apparent from the following descriptions and claims and are illustrated in the accompanying drawings which, by way of illustration, show a preferred embodiment and the principle thereof and which is considered to be the best mode contemplated for applying that principle. Other embodiments of the invention embodying the same or equivalent principle may be used and structural changes may be made as desired by those skilled in the art without departing from the present invention and a purview of the appended claims.

In the drawings:

Fig. 1 is a perspective view showing a table member as one embodiment of my invention.

Fig. 2 is a fragmentary enlarged elevational view of one corner of a table member showing the tubular leg member secured in position within the corner of the table frame.

Fig. 3 is a cross sectional view taken substantially on line 3-3 and looking in the direction indicated by the arrows.

Referring to the drawings, the numeral 5 designates generally a furniture structure embodied in a table and comprising frame members 7 arranged in rectangular relation and glued or otherwise rigidly secured to the marginal edges of the top or platform member 8. A conventional brace member 9 is secured across the corners of the frame to members 7, as shown. As will be seen in Fig. 3, the frame members 7 are arranged in spaced relation to accommodate at the corners the novel tubular leg supporting structure, hereinafter described.

The leg supporting structure, indicated generally at 10, comprises a metal web substantially coextensive in width with the frame members 7 and formed to provide an intermediate bowed portion 12 and angular terminal portions 13 connected to the bowed portion 12 by arcuate portions 14. A stud 18, provided with a nut 20 and welded to the bowed portion 12, passes through

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a hole in the brace member 9 and serves to position the structure 10 in operative position. Each of the terminal portions 13 is arranged to receive one leg 16 of a U-shaped tubular leg member of a type well known in the art.

In assembly, the legs are inserted in the terminal portions 13 and by tightening up the nut 20 on the stud the legs 16 are caused to be clamped in the terminal portions and securely retained therein. The terminal portions 13 are arranged to confine more than half of the circular surface of each leg so that as the bowed portion 12 is drawn inwardly towards the brace member 9 the arcuate section 14 urges the leg 16 against the walls 21 thereby effecting a locking of the leg in position. In view of the provision of the relatively wide web of the structure 10, each leg 16 is rigidly and substantially held in position.

It will be noted that except for the stud 18 the structure 10 is not otherwise secured to any part of the furniture structure. The end walls 21 of the structure 10 about the ends of frame members 7 to thereby afford a very rigid assembly. Assembly and adjustment of the height of each leg may be accomplished merely by manipulation of the nut 20 on the stud 18. As will be seen in Fig. 1, the structure 10 is adapted to harmonize with the designs of a variety of furniture structures thereby enhancing the appearance of the same.

Although the leg securing structure is shown embodied in a table member, it is to be understood that my invention may be embodied in other articles of furniture structure, such as chairs, cabinets, and the like, without departing from the spirit of the invention or the scope of the appended claims:

I claim:

1. A structural leg clamp comprising a pair of relatively fixed abutments, a sheet metal clamping member having opposite marginal portions rolled to provide a partial loop of the sheet stock along two sides of the body of said member, means at the free edge of each said partial loop for seating against a different one of said fixed abutments, a cylindrical leg element extending into each said partial loop, and means for drawing the body of said member generally toward said relatively fixed abutments, thereby to wrap said partial loops into clamping engagement with said cylindrical leg elements.

2. A table leg clamping structure comprising a pair of right-angularly related frame elements, a frame member extending diagonally between said elements holding the adjacent ends of the

elements in spaced relation, a sheet metal clamping member having an arched body portion and parallel inwardly rolled edge portions constituting partial loops for engaging around tubular leg elements, the inner edge of each partial loop having a flat flange thereon for seating against said spaced ends of the frame elements, a tubular leg element having a tubular portion extending into each said partial loop, and means extending between said arched body portion of the clamping member and said diagonal frame member for drawing said body portion generally toward the diagonal member, thereby to wrap said partial loops more and more into clamping engagement with the leg elements therein.

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