April 3, 1934. W. C. ULINE 1,953,377

TABLE FRAME

Filed Nov. 13, 1931

Fig. 1.

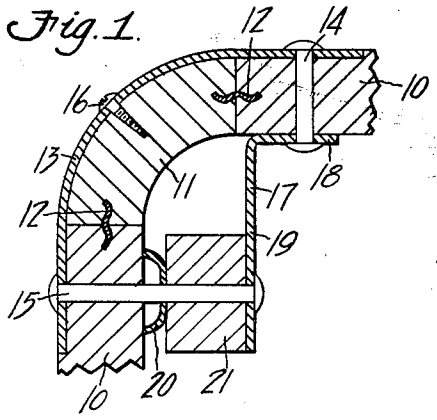


Fig. 2.

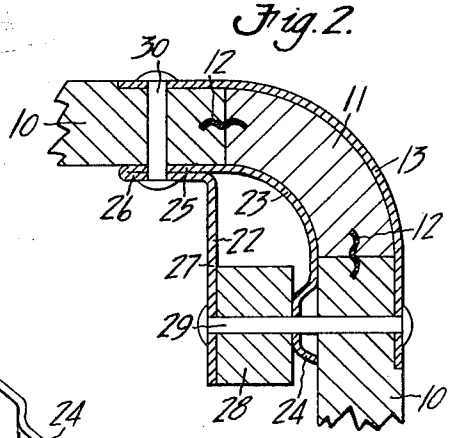


Fig. 3.

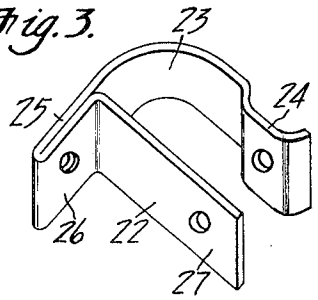


Fig. 5.

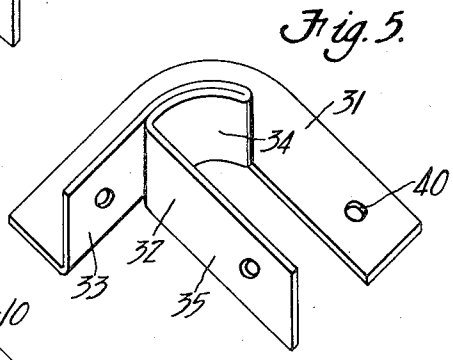
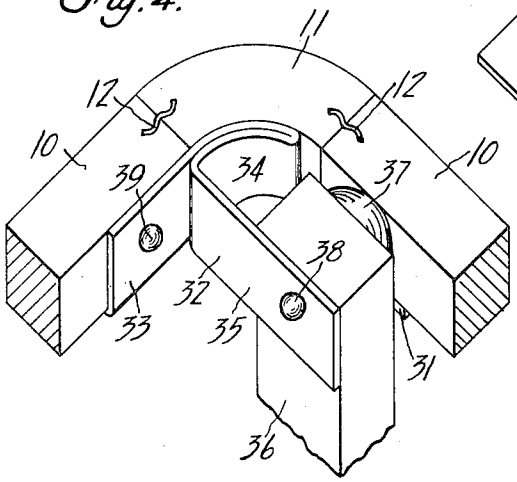


Fig. 4.



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TABLE FRAME

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Application November 13, 1931, Serial No. 574,838

2 Claims. (Cl. 45—48)

The invention relates to table frames, and particularly to table frames for folding card tables and the like of the type illustrated in my copending application, Ser. No. 300,281, filed August 17, 1928, now Patent No. 1,832,673 of Nov. 17, 1931, in which the frame is formed of side rails and separate corner pieces. The object of the invention is to provide a corner brace for a frame of this character which adequately and securely braces the corner of a frame of this construction, and particularly a brace construction which braces the frame corner on two sides thereof and firmly supports the corner piece in operative relation to the side rails against all stresses applied thereto. Other objects of the invention will be apparent from the description and appended claims, it being understood that changes in the precise embodiment of the invention may be made within the scope of what is claimed.

In the drawing:

Figure 1 is a fragmentary horizontal transverse sectional view of the frame illustrating one embodiment of the invention.

Figure 2 is a fragmentary horizontal transverse sectional view of the frame illustrating a modified construction of brace.

Figure 3 is a perspective view of one of the brace members employed in the construction illustrated in Figure 2.

Figure 4 is a fragmentary perspective view of the frame illustrating another modified construction of brace.

Figure 5 is a perspective view of the brace member employed in the construction illustrated in Figure 4.

Referring to Figure 1 of the drawing, which illustrates the preferred embodiment of the invention, the numeral 10 designates the side rails, and the numeral 11 the arcuate corner piece of a round cornered table frame. The ends of the rails and corner piece are secured together in registering contacting relation by corrugated edged securing members 12 adapted to be driven therein.

A brace member 13, curved intermediate its ends in conformity with the curvature of the outer side of the corner piece, is secured to the outer side of the corner of the frame by means of rivets 14 and 15 secured at the ends thereof to the adjacent ends of the rails 10. A screw 16 may be employed to secure the brace to the corner piece. An angle bracket 17 is secured to the inner side of one of the rails 10 by the rivet 14 which passes through and secures one arm 18 thereof to the rail. A cup washer 20 is mounted on the other rivet 15 in contacting relation with the inner side of the other rail 10, and between said washer and the other arm 19 of the bracket 17 is disposed the upper end of a table leg 21 which is pivotally secured to the table frame by the rivet 15 which passes therethrough and is secured at its outer end to the arm 19 of bracket 17.

By this construction, the corner of the frame is directly supported by the brace 13 at the outer side thereof. The interconnection of the rivets 14 and 15, bracket 16, washer 20 and leg 21 firmly secures and supports the inner side of the frame at the corner. In this way, both the outer and inner sides of the corner of the frame are firmly supported, and this double support solidly braces the corner of the frame on two sides in a manner to adequately and firmly brace the frame against all stresses which may be applied thereto.

In the construction illustrated in Figures 2 and 3, the rails 10 and corner piece 11 are interconnected by the securing members 12 and supported at its outer side by a brace member 13, in the same manner as in the construction illustrated in Figure 1. A bracket member 22 is secured to the inner side of the frame and comprises a centrally curved portion 23 conforming to the curvature of the inner side of the corner piece 11 and positioned thereagainst, an end portion 24 comprising an off-set forming a spacer positioned at the inner side of the end of one of the rails 10, a portion 25 engaging the inner side of the end of the other rail, a return bent portion 26, and an arm 27 extending perpendicularly inwardly from portions 25 and 26 in spaced parallel relation to the off-set 24. The upper end of a table leg 28 is positioned between the off-set 24 and portion 27 of the bracket, and is pivotally secured therebetween by a rivet 29 secured at one end to the portion 27 of the bracket, passing through the leg 28, off-set 24 and the end of one of the rails 10, and is secured at its other end to the bracket 13. A second rivet 30 extends between the bracket 13, through the end of the other rail and the portion 25 of the bracket, and is secured to the return bent portion 26 of the bracket.

It will thus be seen that with this modified construction the outer side of the table frame is directly supported by the brace member 13, and the inner side of the table frame is directly supported by the brace member 22 which is secured thereto in engagement therewith. The same double support and reinforcement for the frame as obtained in the preferred construction is thus provided in this modified construction, and is more positive by reason of the direct contact

of the supporting members with the frame at its inner and outer sides.

The construction illustrated in Figures 4 and 5 is another modified form by which the two sided or double support for the table frame may be obtained for the type of frame comprising side rails and interposed corner pieces. A metal plate 31 conforming to the shape of the corner of the frame is adapted to be secured to the upper or lower side thereof, preferably the lower side as illustrated, to underlie the corner piece 11 and the adjacent ends of the rails 10. A bracket 32, which may be separate from the plate 31, or integral therewith as illustrated, is positioned in engagement with the inner side of the frame and comprises a portion 33 engaging the end of one rail and the corner piece, a return bent portion 34, and a flange 35 extending perpendicularly from portions 33 and 34 and in spaced parallel relation to the other rail. The upper end of a table leg 36 is positioned between the flange 35 and a cup washer or spacer 37 positioned in engagement with the other rail, and a rivet 38 pivotally mounts said leg and is secured between the flange 35 and the rail. A rivet 39 secures the portion 33 of the bracket to the end of the rail it engages. Suitably positioned holes 40 are formed in the plate 31 for the reception of screws by which the plate may be secured to the rails and the corner piece.

By this construction either the upper or lower side of the frame, the lower as illustrated, is firmly supported by the plate 31 secured thereto in engagement therewith. The inner side of the frame is supported by the portions 33 and 34 of bracket 32 which engage the inner side of the end of one of the rails and the corner piece. The inner side of the end of the other rail is supported by the flange 25 of the bracket, between which and the other rail, the leg 36 and spacer 37 are mounted. Thus, in this construction, two adjacent sides of the frame are reinforced at the corner thereof, which reinforcement is as effective to reinforce the frame against all stresses applied thereto as the other constructions illustrated in which the opposite sides of the frame are reinforced.

It will thus be seen that the constructions illustrated are adapted to reinforce the corner of a table frame, comprising side rails and interposed corner pieces, at two sides thereof, and thus to reinforce the frame against all stresses in a more effective manner than is accomplished in the construction illustrated in my copending application above referred to in which only one side of the frame is supported at the corner.

The invention having been set forth, what is claimed as new and useful is:

1. The combination with a table frame comprising side rails and corner pieces, of a brace conforming to the shape of and secured to the under side of the corner of said frame, a bracket member integrally formed with said brace and positioned in engagement with the inner side of said frame corner, a table leg, and means pivotally mounting said table leg to said frame, said brace and bracket providing a pivotal support reinforcing said frame corner at the bottom and inner side thereof.

2. The combination with a table frame comprising side rails and corner pieces, of a brace conforming to the shape of and secured to the under side of the corner of said frame, a bracket member conforming to the shape of and secured to the inner side of said frame at the corner thereof, a table leg, and means pivotally mounting said table leg between said bracket and said frame, said brace and bracket being interconnected to reinforce said frame corner at the bottom and inner side thereof.

WALTER C. ULINE.