

UNITED STATES PATENT OFFICE.

ALEXANDER J. INNES, OF SUTHERLAND, IOWA.

TABLE-LEG FASTENER.

No. 892,839.

Specification of Letters Patent.

Patented July 7, 1908.

Application filed October 7, 1907. Serial No. 396,291.

To all whom it may concern:

Be it known that I, ALEXANDER J. INNES, a citizen of the United States, residing at Sutherland, in the county of O'Brien and State of Iowa, have invented a new and useful Table-Leg Fastener, of which the following is a specification.

In the construction of tables with removable legs, difficulty is sometimes experienced, because of the fact that the side strains upon the legs due to the floor friction when the table is moved, often pulls the bolts from the legs or loosens the blocks from the table top.

The principal object of the present invention is to provide novel, simple and effective means for securing the leg to the top so that the former is thoroughly braced and side strain instead of a direct pull is applied to the fastening means.

The preferred embodiment of the invention is illustrated in the accompanying drawings, wherein:—

Figure 1 is a vertical sectional view through one corner of a table, showing the leg secured by the improved means. Fig. 2 is a bottom plan view of the corner. Fig. 3 is a sectional view showing the fastening means in elevation. Fig. 4 is a plan view of the socket member. Fig. 5 is a detail sectional view showing a slightly modified form of construction.

Similar reference numerals designate corresponding parts in all the figures of the drawings.

In the embodiment illustrated, the top of the table is designated 5, and is provided with angularly disposed side rails 6. In the angle formed by these rails is located a bridge piece 7 substantially triangular in form and secured to the lower margins of the rail by any suitable fastening means. The outer corner of the bridge piece is preferably rounded so that it may be applied not only to rails, with which a sharp corner is formed, but can be applied to tables in which the corners are rounded. The bridge piece, as shown in Figs. 1 and 3 is spaced from the under side of the table top, and secured to said under side by screws 8 or other suitable fasteners is a socket member 9 that is located above the bridge piece and is also spaced from said bridge piece. The bridge piece is preferably though not necessarily braced by an arm 10 secured at 11 to the under side of the table top, said arm being located upon

the upper side of the bridge piece, and fastened thereto by screws 12. The table leg 13, which may be of any suitable configuration or design, is provided at its upper end with a tapered shank 14 that is threaded and is screwed through a tapered opening 15 formed in the bridge piece. The upper end of this shank is provided with a reduced terminal stem 16 that may be integral or may be a screw bolt secured in the shank, as shown in Fig. 5, and this stem is threaded into the socket of the member 8. The upper end of the leg around the lower end of the shank 14 is concaved as shown at 17, providing a peripheral flange 18 that bears against the under side of the bridge piece.

It will be evident that this mechanism can be applied to a table top with little trouble, and it constitutes an effective leg fastener, in that the strain imparted to the bridge piece and socket member is transverse of the same and there is secured a leverage which materially reduces the danger of the parts becoming separated. The use of a tapered shank as shown secures a snug fit in the socket piece and by having the concaved portion of the leg around the socket piece, a broad bearing for the upper end of the leg is secured.

From the foregoing, it is thought that the construction, operation and many advantages of the herein described invention will be apparent to those skilled in the art, without further description, and it will be understood that various changes in the size, shape, proportion and minor details of construction, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention. For instance in Fig. 5, a slightly modified form of construction is shown, wherein the top of the table 5^a has beneath it a bridge piece 7^a provided with a tapered opening 7^b. A socket member 9^a is secured to the under side of the table top and the table leg 13^a is provided with a tapered shank 14^a that fits snugly into the opening 7^b and carries a terminal stem 13^b. In order to illustrate that the stem may be a separate piece, it is, in this embodiment, so shown, and is threaded into the socket piece 9^a. The upper end of the leg around the lower end of the shank 14^a is concaved, as shown at 17^a providing a peripheral flange 18^a that bears against the under side of the bridge piece. It is also to be understood that the bridge pieces may be made of different

lengths so that the legs of the table may be placed as far underneath the table top and away from the edge of the table as is desired.

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

1. In mechanism of the character set forth, the combination with a table top having
10 depending side rails, of a bridge piece secured to the side rails in spaced relation to the top and having an upwardly tapered opening therethrough, a member secured against
15 movement to the under side of the top in spaced relation to the bridge piece and side rails, said member having a threaded socket alined with the opening, and a leg having an upwardly tapered shank passing through and snugly fitting in the opening in the bridge-
20 piece, said shank having its upper end threaded into the socket of said member and being spaced from the side rails of the top, the upper end portion of the leg around the shank being concaved to provide a flange
25 that bears against the under side of the bridge piece.

2. In mechanism of the character set forth, the combination with a table top having
30 depending rails, of a bridge piece connecting the rails and secured thereto, said bridge piece having an opening therethrough, a brace connecting the bridge piece and the

under side of the top and having an opening therethrough that is alined with the opening
in said bridge piece, a socket member located 35 above the bridge piece, and a leg fitting in the openings in the bridge piece and brace and being threaded into the socket of the member.

3. In mechanism of the character set forth, the combination with a table top having
40 angularly disposed meeting rails, of a bridge piece located in the angle formed in the rails and secured to said rails, said bridge piece having an opening therethrough, a brace
45 secured to the under side of the top and being located on the upper side of the bridge piece, said brace having an opening there-
through that is alined with the opening in
50 said bridge piece, a socket member located above the bridge piece and secured against movement to the top, and a leg having a
portion fitting in the openings in the bridge
piece and brace and being threaded into the
socket of the member, said leg having a por-
55 tion bearing against the under side of the bridge piece.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

ALEXANDER J. INNES.

Witnesses:

E. B. MICHAEL,
E. J. CLAUSSEN.