

J. F. WINCHELL.
Removable Table Legs.

No. 231,880.

Patented Aug. 31, 1880.

Fig. 1.

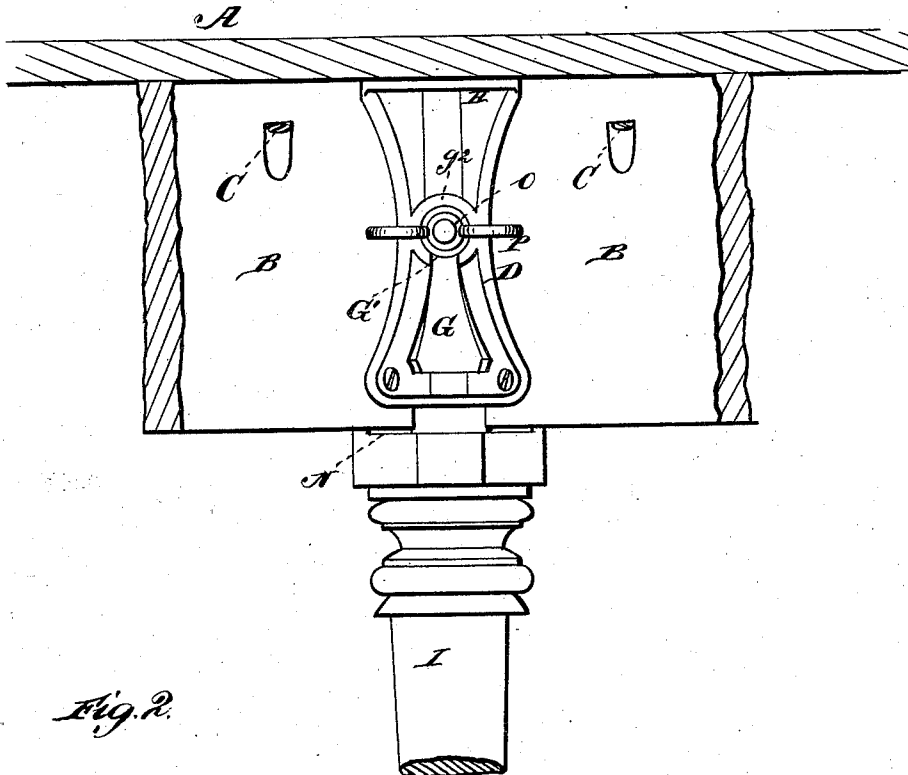
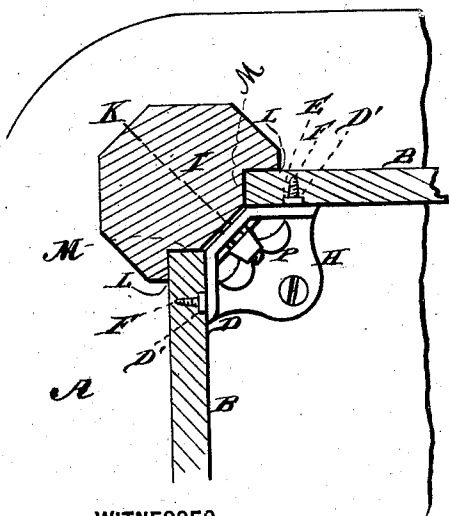


Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

JAMES F. WINCHELL, OF SPRINGFIELD, OHIO, ASSIGNOR OF ONE-HALF OF
HIS RIGHT TO JAMES W. HALL, OF SAME PLACE.

REMOVABLE TABLE-LEG.

SPECIFICATION forming part of Letters Patent No. 231,880, dated August 31, 1880.

Application filed January 13, 1880.

To all whom it may concern:

Be it known that I, JAMES F. WINCHELL, of Springfield, in the county of Clarke and State of Ohio, have invented certain new and useful Improvements in Removable Table-Legs; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a section of a table, showing my removable leg applied. Fig. 2 is an inverted horizontal sectional view of the same.

This invention has relation to removable table-legs; and it consists in the improvements in the construction of the same, hereinafter fully described, and particularly pointed out in the claim.

In the drawings, A designates a section of a table-top, and B B sections of the rails, which are secured to the under side of the top by screws or bolts C, set into recesses formed in the inner sides of the rails at points adjacent to their line of juncture with the top.

The rails are further held and braced in position by an angle-plate, D, the sides of which are fitted to the rails at each corner of the table. This angle-plate is provided with bosses D', which fit into corresponding sockets E, formed in the rails. The screws F F, which pass through the angle-plate and its bosses, are screwed into holes which are centered at the bottom of each recess or socket E.

An important feature of this construction and arrangement of parts is the facility and cheapness with which they can be joined together, and the strength of the structure, since the socket and hole will be made at one operation by a bit adapted for such purpose, and the bosses fitting thus in the rails give a rigidity to the connection, which will be found to be an important auxiliary to the hold which the screws take upon the material of the rails.

The angle-plate or casting is formed with a slot, G, which is somewhat broadened at its lower extremity, and which at its upper terminus runs into a circular opening, G', around which is a flat bearing-surface, G², the uses of

which peculiar conformation will be presently set forth.

The angle-plate is further provided with a head or plate, H, which fits against the table, and through which a screw is passed and screwed firmly in place.

I designate one of the table-legs, the distinguishing features of which and the manner of holding it against the angle-plate and rails are as follows: The leg is recessed for a portion of its length, so as to form practically one whole and two half sides of an octagon, the whole side being designated by the letter K, and the half sides by the letters L L. As herein illustrated, the conformation of this recessed or cut-away portion of the leg also gives the two sides M M, which will be at right angles to the sides L, above described. Such angles might be somewhat varied if the ends of the rails, which fit into the grooves formed by the sides L M, were beveled; but it will, as a matter of practice, be preferable to form square ends of the rails, and hence right-angled grooves, as above stated.

At the lower terminus of the cut-away part of the leg a shoulder, N, will be formed, which will fit up against the lower edges of the rails when the leg is placed in position.

O designates a stud-bolt which is secured in the side K of the table-leg.

In fitting the leg in place the thumb-nut P is turned upon the stud-bolt so as to bring its longest diameter in line with the axis of the leg, and it is then inserted through the largest portion of the slot in the angle-plate. The leg is then brought into place against the rails and the table-top, in which position the stud-bolt will project through the partly-circular opening at the upper terminus of the slot, the side K of the recessed portion of the leg will fit loosely against that portion of the angle-plate which is between the adjacent corners of the rails, the two smaller sides M of said recessed part of the leg will fit against the ends of the rails, the shoulder N will fit against the lower edges of the rails, near their corners, while the sides L L of the cut-away part of the leg, which, as before described, are at proper angles to the narrow sides M, will fit against the faces of the rails, so as to

subserve the double purpose of bracing them against lateral strain and of concealing their edges. This total concealment of the corners or edges of the rails at their ends obviates the necessity of such careful finish and consequent expenditure of time and labor as would otherwise have to be incurred, and in the manufacture of cheap tables forms a great desideratum.

10 In tightening up the thumb-screw the flat bearing-surface around the circular opening admits of its being freely turned to the utmost limit, so as to draw the leg up tightly against the parts before mentioned.

15 The bosses upon the angle-plate serve as valuable auxiliaries to the screws in bracing the rails against any strain which may occur either endwise or in a vertical line, and at the

same time their sockets and the central screw-holes may be made quickly and cheaply by the bit hereinbefore mentioned. 20

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

The table-top and rails, in combination with the slotted angle-plate D, recessed table-leg with sides K, L L, and M M, and the stud-bolt with a thumb-screw or nut, all constructed substantially as herein shown and set forth. 25

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses. 30

JAMES F. WINCHELL.

Witnesses:

THEO. MUNGEN,
JAMES J. SHEEHY.