July 29, 1952 J. J. NASH 2,605,158

KNOCKDOWN LEG FOR TABLES

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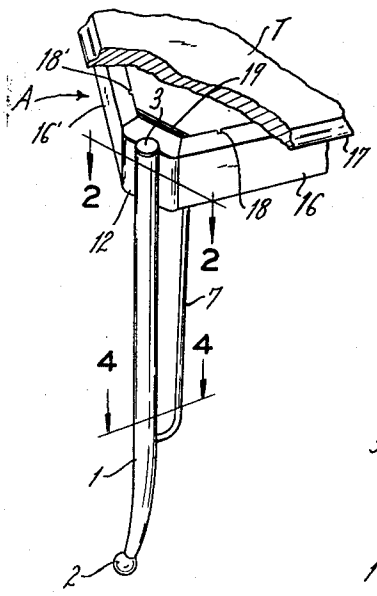


FIG. 1.

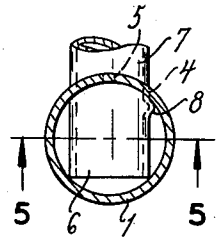


FIG. 4.

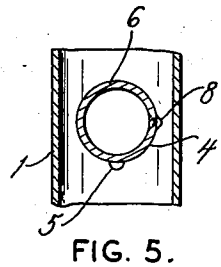


FIG. 5.

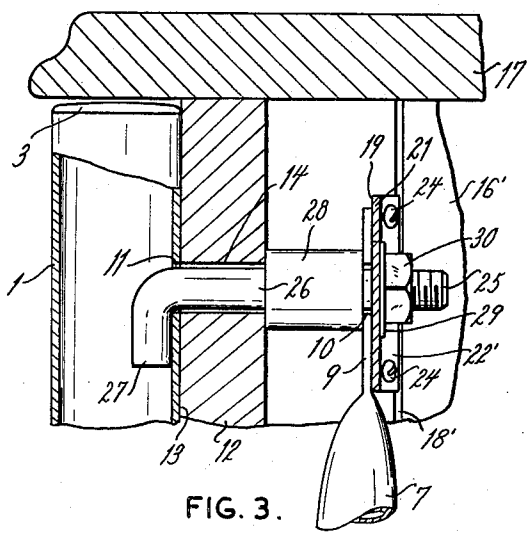


FIG. 3.

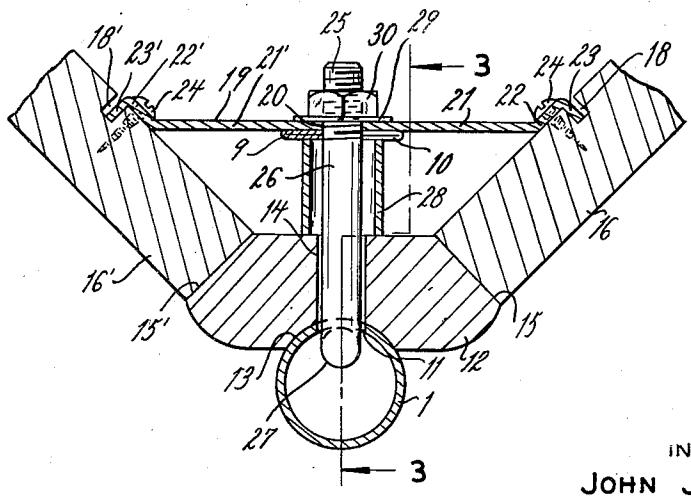


FIG. 2.

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KNOCKDOWN LEG FOR TABLES

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3 Claims. (Cl. 311—110)

1

This invention relates in general to certain new and useful improvements in a knock-down leg for a table.

It is a primary object of the present invention to provide a leg assembly for a table having a relatively small number of parts and which may be readily assembled to form a sturdy rigid structure.

It is another object of the present invention to provide a table having a leg construction which may be readily and quickly disassembled and reassembled to facilitate shipment in a so-called "knock-down" package.

It is a further object of the present invention to provide a leg assembly for tables which is adapted to co-operate with the aprons of the table to contribute to the overall rigidity of the table construction.

With the above and other objects in view, my invention resides in the novel features of form, construction, arrangement, and combination of parts presently described and pointed out in the claims.

In the accompanying drawing:

Figure 1 is a perspective view of a table corner-assembly constructed in accordance with and embodying the present invention;

Figure 2 is a transverse sectional view taken along line 2—2 of Figure 1;

Figure 3 is a transverse sectional view taken along line 3—3 of Figure 2;

Figure 4 is a transverse sectional view taken along line 4—4 of Figure 1; and

Figure 5 is a transverse sectional view taken along line 5—5 of Figure 4.

Referring now in more detail and by reference characters to the drawing which illustrates a preferred embodiment of my invention, A designates a table comprising a top assembly T and tubular legs 1, each fabricated preferably of chromium plated tubing and being outwardly turned and tapered at its lower end, the extremity of which is provided with a ball foot 2. Suitably secured, closurewise on the upper end of the leg 1 is an end cap 3. Provided on the inwardly presented surface of the leg 1, adjacent its lower end, is a circular aperture 4 having a small peripheral recess or keyhole slot 5 preferably in its lower portion. Projecting through the aperture 4 into the interior of the leg 1 is the lower forwardly bent end 6 of a tubular brace 7 also fabricated preferably of chromium plated tubing and of substantially the same diameter as the aperture 4 so that the end 6 will fit snugly therein. Provided on a laterally presented surface of said end 6 is a projection or teat member 8, sized for moving through the slot 5 when the end 5 is inserted in the aperture 4, and which, upon rotation of the brace 7 into vertical position, lockingly engages the interior wall of the leg 1 to prevent unauthorized displacement of the rod 7. At its upper end the brace 7 is compressed into a flattened head portion 9 having a transverse recess 10 extending inwardly from one side margin thereof. The leg 1 is provided adjacent its upper end with a circular aperture 11 axially aligned with said recess 10 and aligned, lengthwise of the leg 1, with the aperture 4.

2

The table top assembly T is constructed at its corners, as shown in Figures 1 and 2, and each such corner comprises a corner block 12 provided centrally of its outwardly presented face with a vertically extending arcuate recess 13 having a centrally located aperture 14 extending through the corner block 12 and opening upon the rear face thereof. Along its outwardly presented vertical margins the corner block 12 is provided with inclined, laterally presented surfaces 15, 15', for suitable securement as by gluing and doweling to the correspondingly mitered end faces of apron-boards 16, 16', respectively, and conventionally provided around its top margins with a top board 17 formed of plastic covered plywood, porcelain enameled sheet steel, or wood, as may be desired. The apron-boards 16, 16', are transversely kerfed in the provision of slots 18, 18', respectively located equidistantly on opposite sides of the corner block 12.

Provided for securement in rearwardly spaced parallel relation to the corner block 12 is a brace plate 19 stamped of heavy gauge sheet metal having a central aperture 20 and being formed along its two lateral margins with ribs 21, 21', respectively, having webs 22, 22', bent backwardly at an angle of 45° to the plane of the brace plate 19 and, in turn, marginally bent forward at right angles in the provision of flanges 23, 23', respectively, for disposition within the slots 18, 18', being secured therein by screws 24 extending through suitable apertures into the angularly presented webs 22, 22', and secured tightly in the apron-boards 16, 16'.

Provided for co-operation with the leg 1 is a hook bolt 25 having a straight shank 26 and a forward bent-over end 27 which is adapted to extend through the aperture 11. Also provided for encircling disposition around the hook bolt 25 is a spacer-sleeve 28, a lock washer 29, and a nut 30.

In assembling the table top T and leg 1 to make a completed table each leg is mounted in place by inserting the bent over end 27 of the hook bolt 25 in the aperture 11. The shank 26 of the hook bolt 25 is then inserted through the aperture 14 of the corner block 12 and aperture 20 of the brace plate 19 so that the upper end of the leg 1 lies snugly in the recess 13. The spacer sleeve 28 is slipped over the shank 26 of the hook bolt 25 and the brace 7 swung around so that the hook-like recess 10 embraces the shank 26 of the hook bolt 25 and lies between the end of the sleeve 28 and the inwardly presented face of the brace plate 19. The lock washer 29 is then slipped over the inwardly projecting threaded end of the hook bolt 25 and the nut 30 threaded thereon to draw the leg 1 tightly into the recess 13 of the corner block 12 and draw the brace place 19 toward the corner block 12 thereby pulling the entire corner assembly of the table A snugly and securely as a rigid unit.

It will thus be seen that the leg 1 can be assembled with and disassembled from the table top assembly T simply, quickly, and conveniently so that the entire table A can be packed for shipment in a compact package and can be reassembled as a completed table, with the simplest type of tools and without requiring a high degree of mechanical skill. When assembled and in use the table A is not only attractive in appearance but is extremely rugged and durable and the corner assembly will withstand extreme abuse without loosening or otherwise becoming weak.

It should be understood that changes and modifications in the form, construction, arrangement, and combination of the several parts of the table may be made and substituted for those herein shown and described without departing from the nature and principle of my invention.

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

1. For use with a table having a plurality of depending aprons arranged in endwise adjacent relation, a leg assembly comprising a leg, a brace rod secured at one end to said leg with its other end in spaced relationship to the upper end of the leg, a corner block secured between two adjacent aprons to form a corner therewith and having a vertical arcuate recess in its outer face, the upper end of the leg disposed against the outer face of said recess, a spacer member disposed between and abutting against the inner face of the corner block and the upper end of the brace rod, a bracket plate disposed angularly across each corner and against the other face of the upper end of the brace rod associated with such corner, said plate being rigidly attached at its ends to the adjacent aprons, and a hook bolt, said bolt projecting through the bracket plate, the upper end of the brace rod, spacer member, the corner block, and the leg for securing same compactly together.

2. A knock-down leg for a table, said leg comprising a tubular member provided upwardly from its lower end with an aperture having a radially outwardly extending entrant slot, an elongated brace member provided at its lower extremity with an angularly bent end portion extending outwardly approximately at right angles thereto, said end portion being sized for snug-fitting rotative engagement within the aperture, and being provided with a radial projection sized to slide through the entrant slot and being so located in reference to the brace member and the position of the entrant slot that the projection will bind against the inner face of the tubular leg member and lock the brace member and leg member together when the brace member is disposed in vertical alignment with the leg member.

3. For use with a table having a plurality of depending aprons arranged in endwise adjacent relation, a leg assembly comprising a leg, a brace rod secured at one end to said leg with its other end in spaced relationship to the upper end of the leg, a corner block secured between two adjacent aprons to form a corner therewith and having an outwardly presented face, the upper end of the leg disposed against the outwardly presented face of the corner block, a spacer member disposed between and abutting against the inner face of the corner block and the upper end of the brace rod, a bracket plate disposed angularly across each corner and against the other face of the upper end of the brace rod associated with such corner, said plate being rigidly attached at its ends to the adjacent aprons, and a hook bolt, said bolt projecting through the bracket plate, the upper end of the brace rod, spacer member, the corner block, and the leg for securing same compactly together.

JOHN J. NASH.

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