

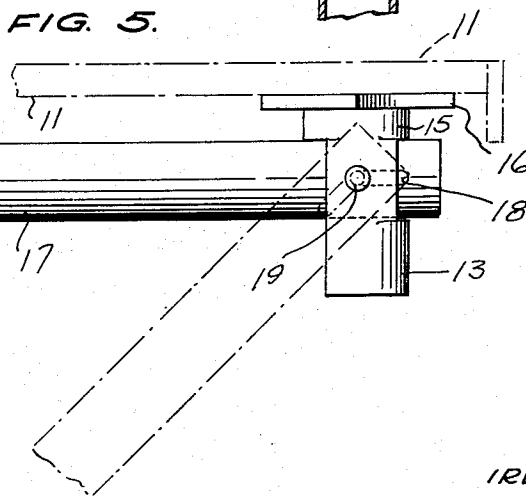
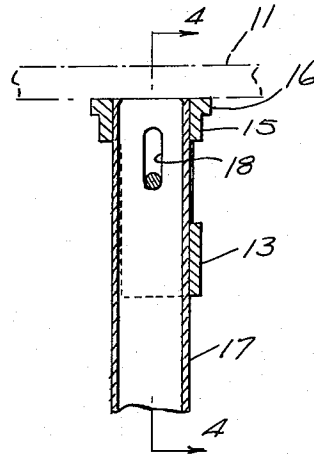
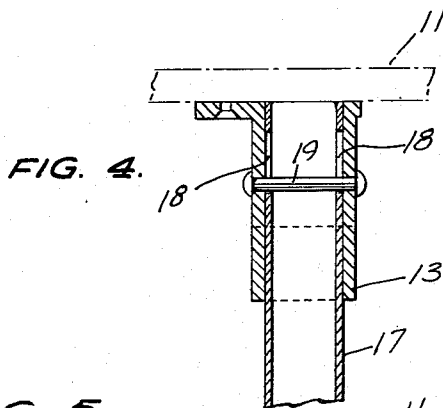
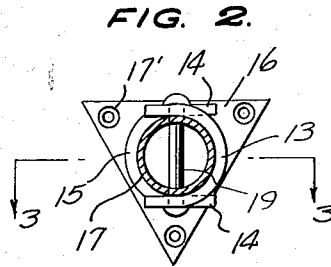
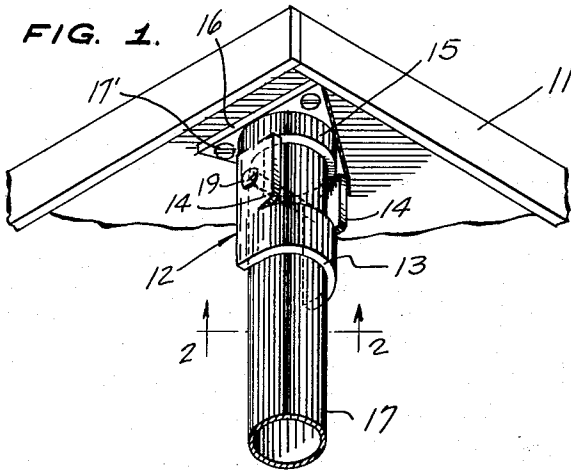
July 6, 1954

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2,683,069

FOLDING TABLE LEG CLAMPING DEVICE

Filed July 24, 1953



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2,683,069

FOLDING TABLE LEG CLAMPING DEVICE

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Application July 24, 1953, Serial No. 370,004

1 Claim. (Cl. 311-99)

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This invention relates to furniture, and more particularly to foldable leg structures for folding tables and the like.

The main object of the invention is to provide a novel and improved foldable leg assembly for use with a folding table or the like, said assembly involving simple components, being easy to manipulate, and providing secure means for locking a leg in either a folded or an extended position with respect to the table surface or other body which it is intended to support.

A further object of the invention is to provide an improved foldable leg structure for furniture, for example, for a folding table, said foldable leg structure involving inexpensive components, being rugged in construction, and being operable by simple manual manipulations to fold or unfold the leg structure, as desired.

Other objects and advantages of the invention will become apparent from the following description and claims, and from the accompanying drawing, wherein:

Figure 1 is a fragmentary perspective view taken beneath the corner portion of a folding table provided with foldable leg structures constructed in accordance with the present invention.

Figure 2 is a horizontal cross sectional view taken on the line 2-2 of Figure 1 and showing the foldable leg assembly in bottom view.

Figure 3 is a cross sectional view taken on the line 3-3 of Figure 2.

Figure 4 is a cross sectional view taken on the line 4-4 of Figure 3.

Figure 5 is a fragmentary side elevational view showing the folding leg associated with the assembly of Figure 1 in folded position parallel to the table surface.

Referring to the drawing, 11 designates a conventional table top, for example, the top of a folding table, and 12 generally designates a foldable leg assembly according to the present invention secured beneath the corner portion of the table top. The foldable leg assembly comprises a channel member 13 having a generally U-shaped cross section said channel member being integrally formed with the parallel side wings 14, 14 and with the circular collar portion 15 at one end thereof. Integrally formed with the collar portion 15 is the generally triangular base flange 16, the flange 16 being secured to the undersurface of the table top 11 by respective screws 17 or similar fasteners extending through the respective corner portions of the triangular flange 16.

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As shown in Figure 1, the channel member 13 is thus secured to the bottom surface of the table top 11 in perpendicular relationship to said bottom surface. Designated at 17 is a tubular leg which is slidably received in the channel member 13, the tubular leg being formed with the diametrically opposed longitudinal slots 18, 18 at its top portion through which extends a transverse rivet 19, said rivet extending through the opposing wing portions 14, 14 of the channel member 13, thus slidably connecting the leg 17 to the channel member.

It will be noted from Figure 3 that the slots 18 are somewhat greater in length than the axial length of the collar member 15, whereby the leg 17 may be moved downwardly from the position thereof shown in Figures 1 and 3 to disengage the end of the leg from the collar 15, and to allow the leg to be rotated ninety degrees to the position thereof shown in Figure 5, namely to a position wherein the leg 17 is parallel to the table top 11, the end of the leg extending through the aperture defined above the bight portion of the channel member 13 between the straight side wings 14, 14. As shown in Figure 5, said aperture is slightly greater in height than the diameter of the leg, whereby the leg may be readily rotated to the position shown in Figure 5, and whereby the leg 17 may be then locked in this position by moving the leg to the right, as viewed in Figure 5, whereby the end of the leg projects laterally beyond the external surface of the bight portion of the channel member 13 and is lockingly engaged with the channel member through the aperture between the wings 14, 14 to support the leg against dropping downwardly from the position shown in Figure 5.

To move the leg to its extended upright position, it is necessary to slide the leg to the left, as viewed in Figure 5, until the transverse pin element 19 engaged the right ends of the slots 18, 18, whereupon the leg 17 may be swung counterclockwise, as viewed in Figure 5, to a position in axial alignment with the collar element 15 and in sliding engagement with the bight portion of the channel member 13. The leg 17 may then be moved upwardly to engage its end in the socket defined by the collar element 15, whereby the leg is locked in its perpendicular position with respect to the table top 11.

It will be understood that the table is provided with foldable leg assemblies, as above described, at each of its corners, whereby the table will be supported in the usual manner when the legs have been all extended to their perpendicular

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positions with respect to the table top. It will be further understood that the legs may be readily folded in the manner above described, when it is desired to fold the table.

While a specific embodiment of an improved foldable leg assembly for furniture has been disclosed in the foregoing description, it will be understood that various modifications within the spirit of the invention may occur to those skilled in the art. Thus it is intended that no limitations be placed on the invention except as defined by the scope of the appended claim.

What is claimed is:

A foldable leg assembly comprising a horizontal base flange adapted to be secured to a horizontal table surface; a cylindrical socket vertically depending from said flange; a pair of parallel side wings vertically depending from said socket member, said side wings having aligned apertures centrally thereof; a U-shaped channel vertically depending from said side wings; said flange, socket, side wings and channel slidably receiving therein a cylindrical leg, said leg being

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formed with a longitudinally extending slot near the top thereof; and a transverse pin element secured in the apertures in said side wings and extending through said slot, said slot being positioned on said leg so that said leg, when in extended vertical position extends into said socket in locking relation, and when in folded horizontal position said leg extends through said side wings in locking relation, said leg being shiftable out of locking relation by movement longitudinally of said leg.

References Cited in the file of this patent
UNITED STATES PATENTS

Number	Name	Date
1,039,368	Whitney -----	Oct. 1, 1912
1,245,811	Smock -----	Nov. 6, 1917
1,917,916	Bales et al. -----	July 11, 1933
2,144,049	Frocier -----	Jan. 17, 1939
2,606,802	Inpyin -----	Aug. 12, 1952
2,625,454	Brown -----	Jan. 13, 1953