Aug. 21, 1956 W. J. BARGEN 2,759,781

TABLE LEG UNIT STRUCTURE

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Fig. 1.

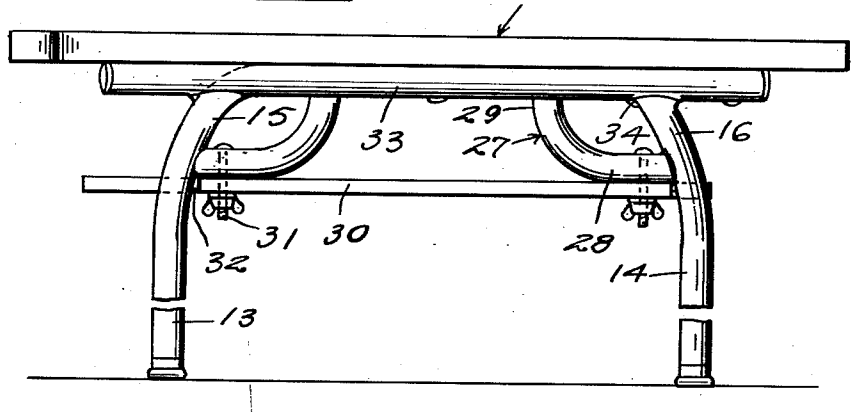


Fig. 2.

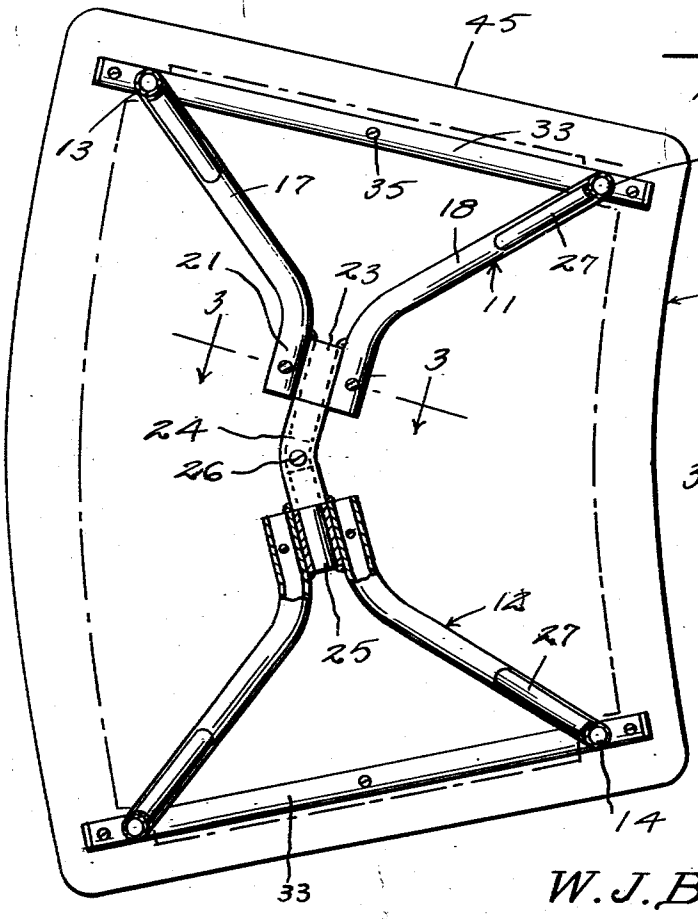
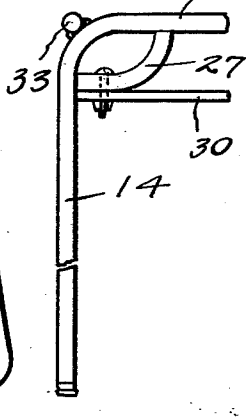


Fig. 3.



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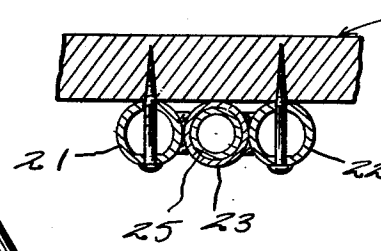


FIG. 3

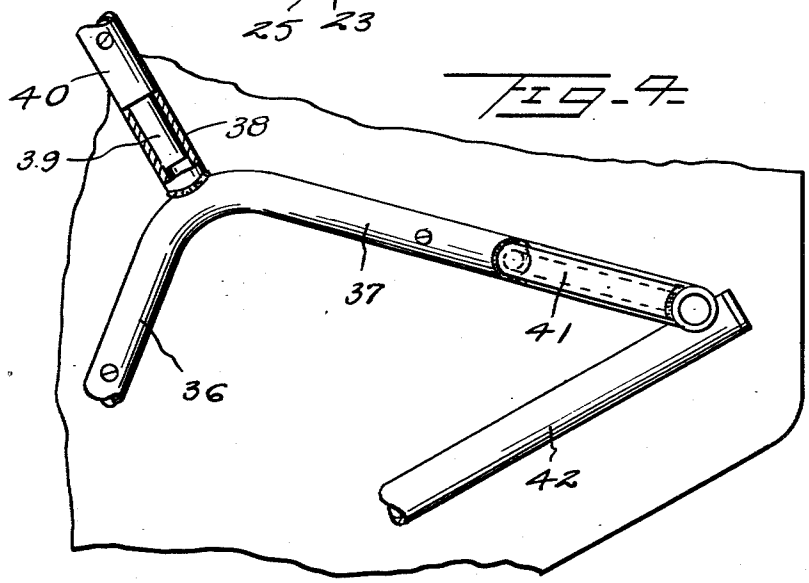


FIG. 4

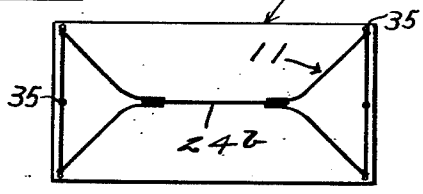


FIG. 6

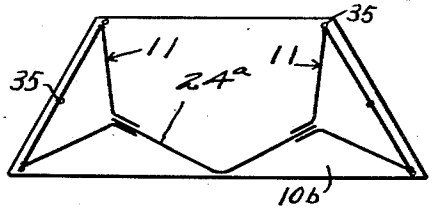


FIG. 5

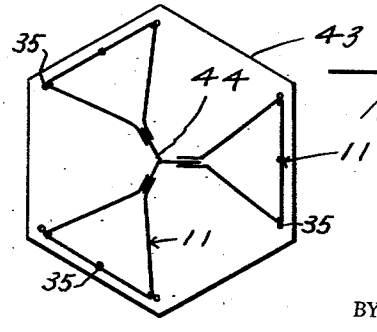


FIG. 7

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TABLE LEG UNIT STRUCTURE

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Application December 23, 1953, Serial No. 399,956

2 Claims. (Cl. 311—109)

This invention relates to a desk or table supporting structure, and more particularly to a leg unit structure for a table.

An object of this invention is to provide a support for a desk or table which will form a firm support for a desk or table top.

Another object of this invention is to provide a supporting frame for a desk or table which is formed of one or more pairs of leg units with variable connectors between the units, so that various shapes and sizes of tops may be used.

A further object of this invention is to provide a leg unit formed of a pair of legs having horizontal inwardly convergent upper portions secured together at their convergent ends, with a curved brace at the upper end of each leg which not only braces the leg, but also forms a bracket or support for a shelf disposed below the top.

A further object of this invention is to provide a leg unit formed of a pair of legs having horizontal inwardly convergent upper portions fixed together at their convergent ends with a tie bar secured between the divergent ends of said upper portions.

A further object of this invention is to provide a leg unit structure which will permit packing and shipping a table or desk in knockdown form.

With the above and other objects in view, my invention consists in the arrangement, combination and details of construction disclosed in the drawings and specification, and then more particularly pointed out in the appended claims.

In the drawings:

Figure 1 is a detailed end elevation, partly broken away, of a desk or table frame structure constructed according to an embodiment of this invention.

Figure 2 is a bottom plan, partly in section, of the frame structure.

Figure 3 is a fragmentary sectional view taken on the line 3—3 of Figure 2.

Figure 4 is a fragmentary bottom plan, partly in section, of a modified form of this invention.

Figure 5 is a bottom plan diagrammatic view showing the base leg unit structure secured to a trapezoidal table top.

Figure 6 is a bottom plan diagrammatic view showing the base leg structure secured to a rectangular table top.

Figure 7 is a bottom plan diagrammatic view showing the series of leg units secured to a hexagonal table top.

Figure 8 is a fragmentary front elevation of one of the leg units.

Referring to the drawings, and first to Figures 1, 2, and 3, the numeral **10** designates generally a table top which in the present instance is formed of sector shape.

The top **10** has secured to the lower side thereof a supporting frame structure which is formed of a pair of connected together leg units, generally indicated at **11** and **12**.

The leg units **11** and **12** are of like construction and each is formed of front and rear legs **13** and **14** having

arcuate upper end portions **15** and **16** respectively, merging into horizontal upper portions **17** and **18** which converge inwardly.

The horizontal upper portions **17** and **18** have secured between the inner parallel end portions **21** and **22** respectively, a tubular member **23**. Where the table top **10** is of sector shape with rearwardly convergent side edges **45**, the tubular connecting member **23** will be disposed in forwardly convergent relation, as shown in Figure 2.

An obtusely angled connecting member or bar **24** is disposed between the inner ends of the tubular member **23**, and the connecting member **24** has fixed interiorly thereof a pair of studs **25** which telescope into the tubular members **23**. A fastening member **26** engages through the central portion of the connecting member **23** and is secured to the lower side of the top **10**.

The legs **15** and **16** are firmly braced by means of a longitudinally arcuate or substantially L-shaped bracing bar **27** which has a substantially horizontal lower side **28** welded at its outer end to the upper end portion of an adjacent leg. The upper inner end of the vertical side **29** of bracing member **27** is welded to the adjacent horizontal portions **17** and **18** of an adjacent leg.

The bars **27** not only provide a bracing means for bracing the legs and the leg unit structure, but also provide a bracket or hanger means whereby a horizontal shelf **30** may be secured by fastening means **31** to the lower sides of the horizontal portions **28** of the bracing bars **27**.

The shelf **30** is substantially smaller as to length and width than the table top **10** and is notched out, as indicated at **32**, at each corner so that the marginal edges of the shelf **30** may project slightly beyond the legs **13** and **14**.

The frame structure or leg unit also includes a horizontally disposed tie bar **33** welded as at **34** to the convex outer sides of the arcuate upper portions **15** and **16** of the legs, and the tie bar **33** not only braces the legs **13** and **14** at their upper ends but also provides a support for the top **10** so that the top may be secured to the leg unit by fastening means **35** extending through the tie bar **33**.

Referring now to Figure 4, there is disclosed a modified form of leg unit structure wherein the horizontal upper portions of the leg unit are formed integral with each other by means of obtusely bent inwardly convergent horizontal portions **36** and **37**. A tubular member or sleeve **38** is welded, or otherwise fixed, at the junction between the convergent portions **36** and **37**, and a stud or telescoping member **39** carried by a connector bar **40** is adapted to telescope into the sleeve or coupling member **38**.

The leg unit structure, shown in Figure 4, also includes an obtusely bent bracing member **41**, similar to the bracing member **27**, and also includes a tie bar **42**, similar to tie bar **33**.

Referring now to Figure 5, there is diagrammatically shown a pair of leg unit members **11** which are secured beneath a table top **10***b* of truncated triangular configuration, and a connecting member **24***a* of slightly greater length than the connecting member **24**.

Referring now to Figure 6, the table top **10***a* is of rectangular configuration, and the leg units **11** are connected together by a straight connecting bar **24***b*.

In Figure 7, there is disclosed a table top **43** which is of hexagonal configuration. There are disposed beneath the top **43** three leg units **11**. It will be understood that there may be as many leg units **11** beneath the top **43** as may be desired. Where three of the leg units **11** are secured beneath the top **43**, the inner ends of the leg

units are connected together by means of angularly related connecting bars **44**.

The leg units **11** are secured to the underside of their respective table tops **10***b*, **10***a*, and **43** in Figures 5, 6, and 7, by fasteners **35**.

The table and frame structure hereinbefore described is formed out of tubular material and will provide a rigid frame structure embodying at least a pair of leg units which can be produced on the production basis and the arrangement of the leg units one with respect to the other, or others, will depend on the configuration of the table top.

It will be understood that the assembled frame structure may use the shelf, or, if desired, may be formed without the shelf **30**.

What is claimed is:

1. A tubular frame unit for a desk or table comprising a pair of legs, arcuate upper portions extending from the upper ends of said legs, inwardly convergent upper horizontal portions extending from said arcuate portions, a tie bar fixed between said arcuate portions and having the upper

side thereof substantially coplanar with the upper sides of said horizontal portions, and a tubular connector encompassing member fixed between the convergent ends of said horizontal portions.

2. A tubular frame unit for a desk or table as defined in claim 1, and an arcuate bracket for each of said legs, each of said brackets, respectively, having one of their ends fixedly secured to its said horizontal portion of its associated leg, and its other end connected with its associated leg, said connections being made on opposite sides of and adjacent to said arcuate upper portions of said leg.

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