Jan. 30, 1968 M. G. RUDOW ETAL 3,366,357

FURNITURE LEG MOUNTING

Filed Nov. 22, 1966

Fig. 1

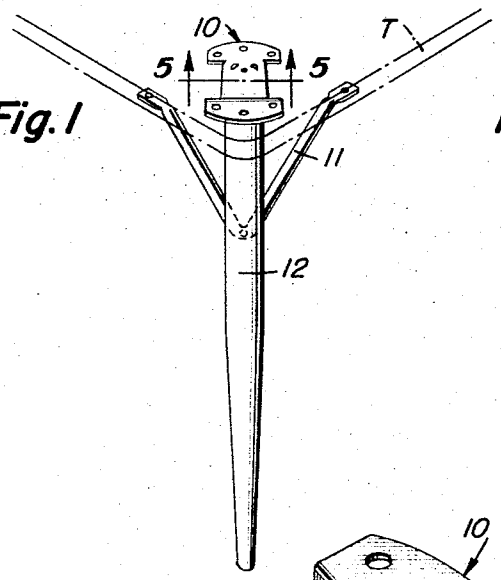


Fig. 2

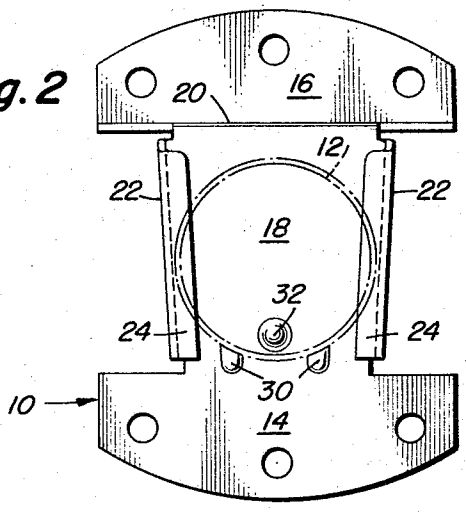


Fig. 4

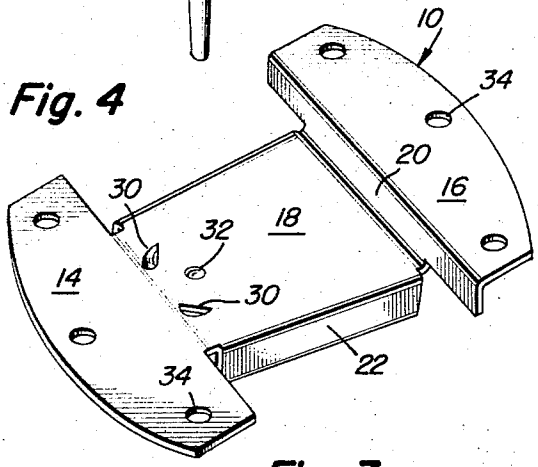


Fig. 5

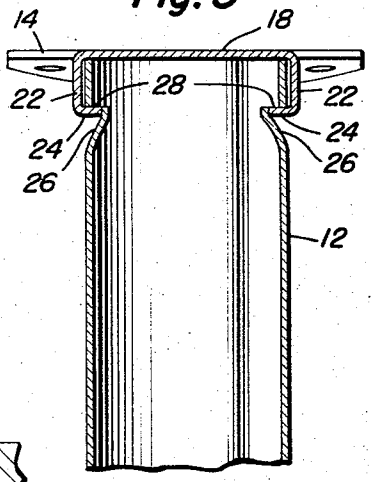
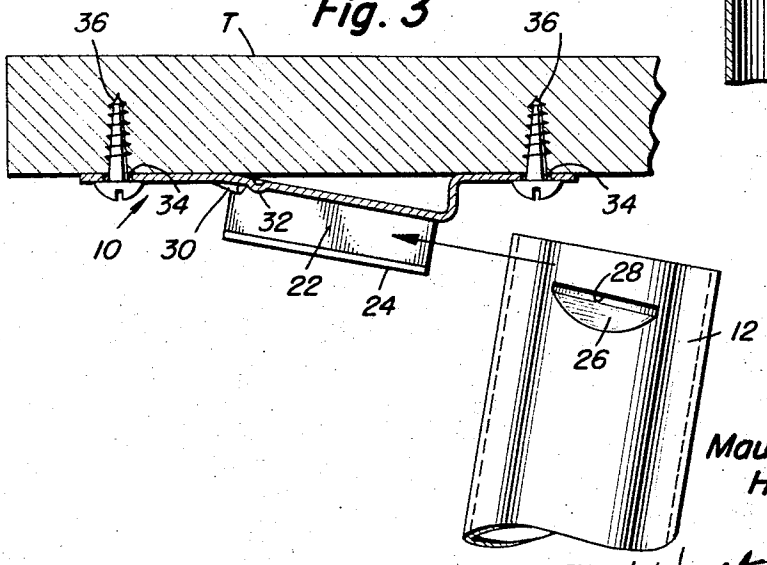


Fig. 3



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FURNITURE LEG MOUNTING

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5 Claims. (Cl. 248—188)

This invention relates generally to furniture legs, and more particularly it pertains to receptacles for detachable table legs.

It is the object of the present invention to provide a bracket device for tables or other similar furniture by which a tubular metallic leg may be detachably mounted to a table top.

Another object of this invention is to provide a wedging and retaining connection between a mounting bracket and a tubular furniture leg obviating the use of intermediate fastener elements.

Yet another object of this invention is to provide wide-spaced shoulder retention means in a bracket whereby a cylindrical tubular leg is securely held and positioned with its wall embraced between spaced stops and a detent element.

Still another object of the invention is to provide a sheet metal bracket for mounting table legs which is economically manufactured as a one-piece stamping and requires but a simple lancing operation on the cooperative table leg.

Other objects and attendant advantages of this invention will become more readily apparent and understood from the accompanying specification and single sheet of drawings in which:

FIG. 1 is a perspective drawing of a table leg assembly with table top shown in phantom lines;

FIG. 2 is a plan view from below of the bracket of the leg assembly of FIG. 1 incorporating features of this invention, with the leg being shown in phantom;

FIG. 3 is a longitudinal section of the bracket mounted on a table top showing how the leg is inserted;

FIG. 4 is a perspective view of the bracket from above; and

FIG. 5 is a tranverse section taken on line 5—5 of FIG. 1.

In the drawings, reference numeral **10** indicates generally a stamped sheet metal bracket incorporating features of this invention. The bracket **10** is intended for mounting a cylindrical tubular table leg **12** to a table top T as shown in FIG. 1, with the table leg **12** and top T being reinforced by a suitable V-shape structural member **11** attached to the leg **12** and top T after assembly of the leg **12** to the bracket **10** as will be discussed more in detail hereinafter.

As best shown in FIGS. 2 and 3, the bracket **10** is provided with a pair of spaced mounting ears **14** and **16** in a common plane and joined by a web **18**. The rear ear **16** is formed with a downwardly extending flange **20** to depress the adjacent portion of the web **18** out of the common plane of the ears **14** and **16** and give it a tilt suitable for a desired outward attitude of table leg **12**.

A pair of side flanges **22** are formed downward on the sides of web **18** and diverge outwardly rearward in the direction of the flange **20**. The lower edges of side flanges **22** are further formed with inwardly extending bottom flanges **24**.

The side flanges **22** receive between them the upper end of the table leg **12** as shown best in FIGS. 3 and 5. Opposite sides of the leg **12** are provided with an inward lancing **26** equally distant with the upper end of leg **12** to form a pair of transverse shoulder edges **28** which are inclined slightly to the upper end of leg **12** and are captured by the bottom flanges **24**.

A pair of spaced stops **30** are formed by a lancing

operation in the narrow end of web **18** with their downwardly extending cut edges in a tangent attitude toward the periphery of the leg **12**. These stops **30** locate the legs of the table accurately despite any flattening or inaccuracy in the tubing diameter, or in the lancing **26** thereof.

A dimple **32** is embossed downwardly from the web **18** between the stops **30** and slightly inward therefrom to capture detent-like the wall of a leg **12** when it is pushed thereover as best shown in FIG. 2.

Holes **34** in the ears **14** and **16** are used to secure the bracket **10** to the underside of table T with fasteners **36** as shown in FIG. 3.

Obviously many modifications and variations of the present invention are possible in light of the above teachings. It is, therefore, to be understood that within the scope of the appended claims the invention may be practiced otherwise than as specifically described.

What is claimed is:

1. In combination, a tubular furniture leg, and a sheet metal bracket adapted to be affixed to the under side of a piece of furniture for connecting the tubular leg thereto, said bracket comprising a portion for fastening the bracket to said piece of furniture and a leg receiving portion, said leg receiving portion having a web with a web surface for receiving the end of the tubular leg in close abutting relationship thereto, opposed flanges extending from said web at opposite sides thereof in a diverging spaced relationship, bottom flanges on said opposed flanges turned inwardly toward each other, lanced shoulders formed on opposite sides of said tubular leg at an angle with the upper terminal end thereto, whereby upon assembly of said tubular leg to said bracket, said bottom flanges engage said lanced shoulders of said tubular leg to hold the end of said tubular leg in close abutting relationship to said web surface of said bracket.

2. The combination as recited in claim **1**, said web having a dimple provided in its web surface and at least one stop in said web spaced from said dimple, with said stop engaging the peripheral exterior of the end of said leg and said dimple engaging the interior of the end of said leg to lock said tubular leg to said bracket after assembly thereto.

3. The combination as recited in claim **1**, said web having a dimple provided in its web surface and a pair of stops spaced from each other and from said dimple, with said pair of spaced stops engaging the peripheral exterior of the end of said leg and said dimple engaging the interior of the end of said leg to lock said tubular leg to said bracket after assembly thereto.

4. In the combination as recited in claim **1**, wherein said portion for fastening said bracket to said piece of furniture consists of a pair of spaced mounting members positioned in a common plane with said web surface being located between said pair of mounting members and joined thereto.

5. In the combination as recited in claim **4**, wherein one of said pair of mounting members is formed with a downwardly extending flange to depress the adjacent portion of said web and its web surface out of the common plane of said pair of spaced mounting members and give it a tilt suitable for a desired outward attitude of said tubular furniture leg.

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