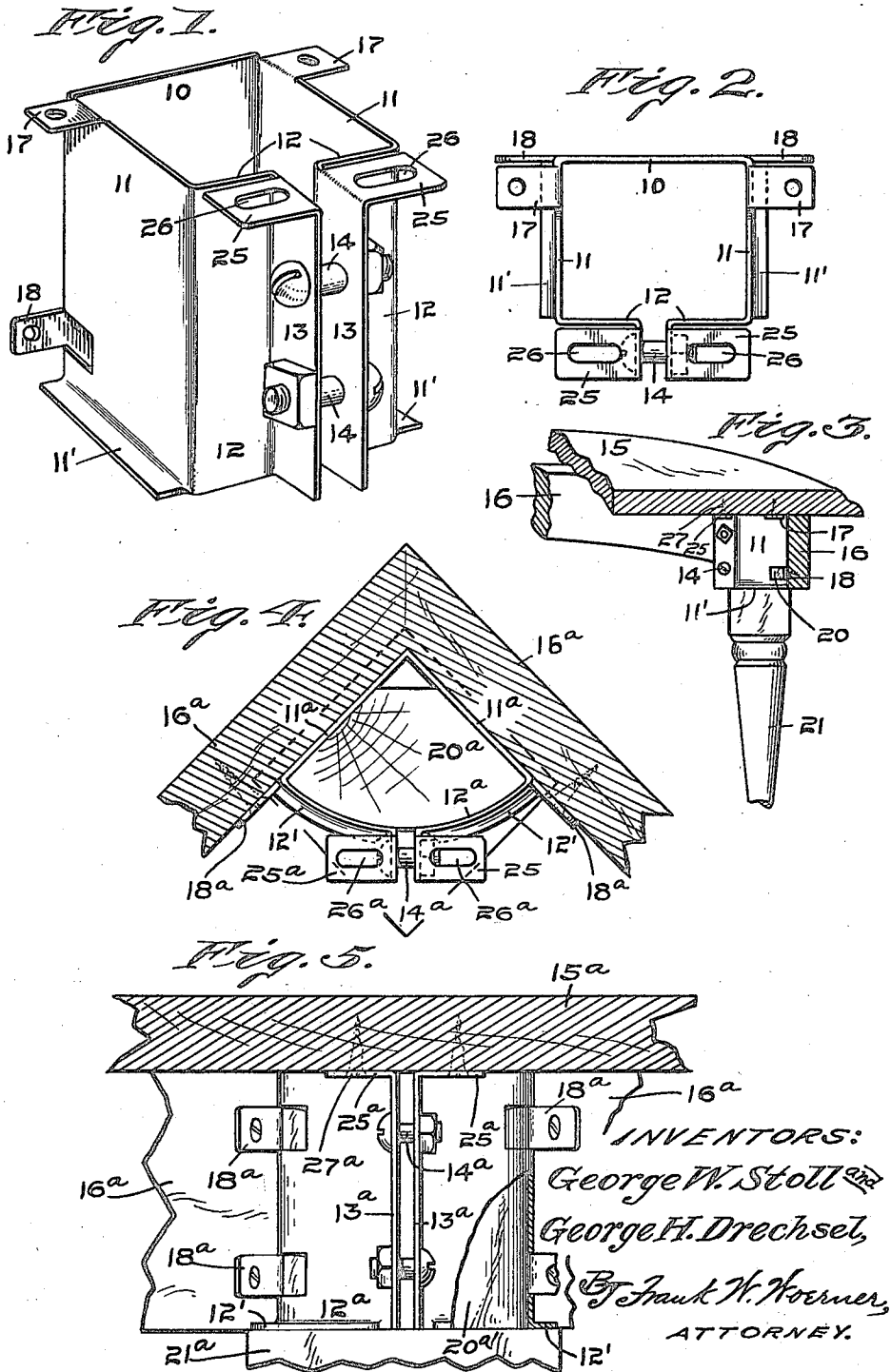


G. W. STOLL AND G. H. DRECHSEL.
 DEVICE FOR ATTACHING TABLE LEGS.
 APPLICATION FILED DEC. 6, 1920.

1,386,739.

Patented Aug. 9, 1921.



UNITED STATES PATENT OFFICE.

GEORGE W. STOLL AND GEORGE H. DRECHSEL, OF INDIANAPOLIS, INDIANA.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that we, GEORGE W. STOLL and GEORGE H. DRECHSEL, citizens of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Devices for Attaching Table-Legs, of which the following is a specification.

This invention relates to a device for detachably securing table legs to tables; and one of the objects of the invention consists in the provision of a device of the above character wherein a tenon of a table leg is so driven and wedged during the action of clamping it that the table leg is practically unmovably secured in operative position.

A further object of the invention consists in the provision of a device for securing table legs to tables which is composed of a single piece of material stamped from a metal sheet, possessing resilient and yieldable properties, and having ears, which are formed integral by cutting and bending them from the body of the device or either cutting them from the stock from which the device is cut or stamped, for securing the device to the table top.

We accomplish the above objects of the invention, and such others as may appear from a perusal of the following description and claim, by means of the construction illustrated in the accompanying drawings, forming a part thereof, in which—

Figure 1 is a perspective view of our improved device for attaching table legs to tables. Fig. 2 is a top or plan view of the construction shown in Fig. 1. Fig. 3 is a view showing a table leg attached to a table top, by means of our invention. Fig. 4 is a top or plan view of a modified form of our table leg attaching device. Fig. 5 is a front elevation of the construction shown in Fig. 4.

Referring to the drawings, the device for attaching table legs to tables comprises a thin resilient metal unit member which is stamped at one operation from the metal stock. This unit member may be bent into a rectangular form as shown in Fig. 1, in order that it may be attached to the side wall of a depending tie-rail of a round table top (Fig. 3) or the sheet may be bent angularly, so as to fit a corner formed at a point of meeting of two tie-rails arranged at right angles to each other.

Examining Figs. 1 and 2, the sheet metal unit member is bent to provide a rear wall 10, side walls 11, and front walls 12, the latter being bent and terminating in outwardly disposed parallel flanges 13. These flanges are spaced a distance apart to provide a sufficient range of movement to enable side walls 11 to be impinged against the sides of a tenon of a table leg; this clamping action being secured by means of clamping bolts 14, which pass through suitable aligned apertures in the flanges 13. By means of the heretofore described construction the tenons of the legs are not only detachably secured in position, but considerable variation in the diametrical dimensions of the tenons can be overcome without changing the size of the leg attaching device, which is of considerable importance from a manufacturing standpoint.

The leg attaching device is secured to the table top 15 and the depending tie-rail, or tie-rails, 16 by means of suitable ears 17 and 18 which are provided with apertures for the passage of holding screws. The ears 17 are formed integrally with side walls 11, one of the ears being arranged along the upper edge of each wall and near rear wall 10 and each of said ears is provided with an aperture for a holding screw by which the device is secured to the underside of the table top 15. The ears 17 are cut from the stock at the time the leg attaching device is formed. The lower end of the device is secured to the depending tie-rail, or tie-rails, 16 by suitable ears 18 which are cut and bent out of the side walls 11, as clearly shown in Figs. 1 and 2. The ears 18 are each provided with an aperture through which a holding screw is passed. After the device is securely attached to the table top 15 and the depending tie rail 16, by means of the ears 17 and 18, and before the clamping bolts 14 are set up, the tenon 20 of the table leg 21 is inserted from the bottom into the hollow inclosure formed by the walls 10, 11 and 12 of the device, after which the clamping bolts 14 are set up to tightly impinge the side walls 11 against the sides of the tenon 20. After the table leg has been properly clamped in operative position the inner end of the device is securely attached to the underside of the table top 15 by means of suitable ears 25 which are formed integrally with flanges 13. The ears 25 are provided with elongated apertures 26 through which the screws 27 pass,

the formation of apertures 26 permitting further adjustment of the side walls 11 of the device in case of shrinkage of material composing the tenon 20 of the table leg, without necessitating the removal of the holding screws 27 from the ears 25.

To prevent the thin lower edges of the devices from cutting into the table legs under excessive weight, we increase the weight supporting surface area of the devices by bending the metal along their lower edges into the horizontal flanges 11' and 12', these flanges resting upon shoulders formed by reducing the diameter of the table legs in forming the tenons 20 and 20^a.

Figs. 4 and 5 illustrate a modified form of our table leg attaching device. In this construction the sheet metal unit is bent intermediate its length so as to provide an angle having two equal sides 11^a the surface planes of which are arranged at right angles to each other so as to fit into a corner of the table structure. In Figs. 4 and 5 the free end portions of the unit member are bent toward each other to form the walls 12^a which terminate in outwardly disposed spaced flanges 13^a. Suitable clamping bolts 14^a are passed through apertures in the flanges 13^a for impinging both the front walls 12^a and the side walls 11^a against the sides of the tenon of the table leg. The device shown in Figs. 4 and 5 is securely attached to the depending tie-rail 16^a of the table structure by means of the integrally formed ears 18^a which are cut and bent out of the side walls 11^a, and suitable holding screws are passed through said ears for securing them to the depending rails 16^a. The inner end of the device is secured to the underside of the table top 15^a by means of the ears 25^a which are formed integrally with the flanges 13^a. Ears 25^a are provided

with elongated slots 26^a, similarly to the slots 26 in the ears 25, so that further adjustment can be made when necessary without the complete removal of the holding screws 27^a from the table top 15^a.

The device shown in Figs. 4 and 5 embodies certain inherent advantages not found in the structure shown in Figs. 1 to 3 inclusive. These advantages arise from the wedge or V-shaped formation of the device. As the tenon 20^a of the table leg is shaped to correspond to the hollow center of the device, it will be observed that in addition to the clamping effect secured through the medium of the clamping bolts 14^a, additional wedging action is secured which consists in driving the V-shaped tenon 20^a into the correspondingly V-shaped part of the frame of the device, which action is an enforced movement induced by the arc-shaped faces of the walls 12^a against the tenon when the clamping bolts 14^a are set up.

Having thus fully described our said invention, what we desire to secure by Letters Patent, is—

A device for detachably securing table legs comprising a resilient plate bent to inclose the tenon of a table leg, means for wedging fast the tenon of the table leg in the device and for clamping and holding said tenon immovable at the conclusion of the wedging action, and flanges formed by bending the lower edges of the device laterally for increasing the weight supporting surface area of the device.

In witness whereof, we have hereunto set our hands and seals at Indianapolis, Indiana, this 29th day of November A. D., one thousand nine hundred and twenty.

GEORGE W. STOLL. [L. S.]
GEORGE H. DRECHSEL. [L. S.]