Sept. 6, 1932. W. M. BOENNING 1,876,446

FOLDING FURNITURE LEG

Filed Nov. 18, 1931

Fig. 1.

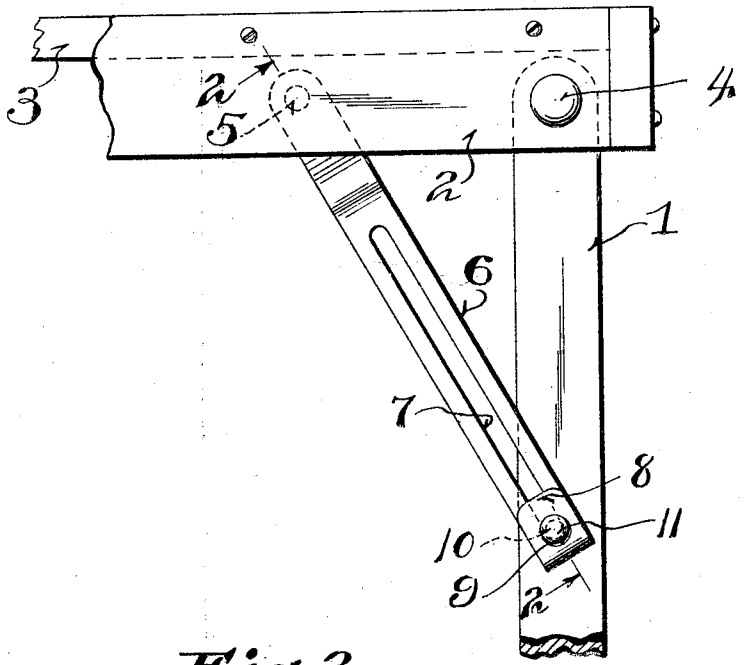


Fig. 2.

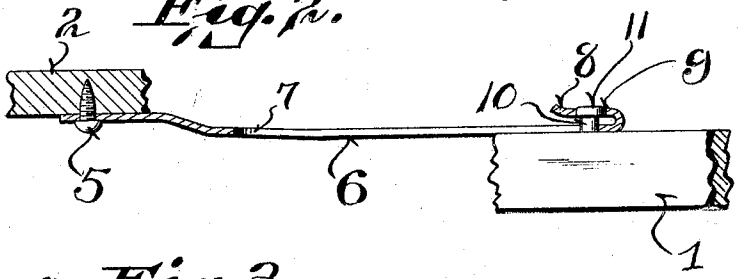
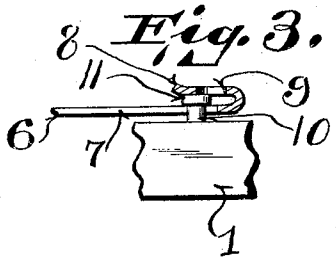


Fig. 3.



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Patented Sept. 6, 1932 1,876,446

UNITED STATES PATENT OFFICE

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FOLDING FURNITURE LEG

Application filed November 18, 1931. Serial No. 575,772.

This invention appertains to furniture, and specifically to folding furniture legs of the type particularly adapted for use in connection with folding card tables, and the like.

One of the primary objects of this invention is the provision of novel means for connecting the leg in position so that the leg can be readily and easily swung by an operator, either to its folded or set position, and at the same time firmly held against accidental movement, either in its folded or operative position.

A specific object of my invention is to provide a pivoted and slotted brace strap for the leg having an integral fold at its free end for engagement with a pin, whereby the latter is locked and unlocked by springing said brace strap. Briefly, the brace and lock constitute a one-piece strap and a pin.

With these and other objects in view, the invention consists in the novel construction, arrangement and formation of parts, as will be hereinafter more specifically described, claimed and illustrated in the accompanying drawing.

In the drawing:

Figure 1 represents the side elevation of the fragment of a table and leg embodying a brace and locking means in accordance with my invention.

Figure 2 is a detailed sectional elevation of the same, the section being indicated by line 2—2 of Figure 1, and

Figure 3 is a fragmentary sectional elevation of the lock and release mechanism associated with the free end of the brace strap.

Referring by characters to the drawing, 1 represents a leg pivotally secured to a rail member 2 constituting part of the table top 3, the pivot being indicated at 4. Also secured to the rail 2 by pivot 5 is a brace-strap 6 which, as best shown in Figure 2, is slightly offset from the pivot point for clearance when the leg is folded, the said strap being preferably stamped from spring metal. The strap is provided with a longitudinal slot 7, and its outer or free end is folded over to form a tongue 8, which tongue is spaced from the opposite face of the strap and is provided with a locking aperture 9. A pin 10, extending from the leg, engages the strap slot 7, and when the strap is in locking position with reference to the leg, the upper end or head 11 of the pin projects through the locking aperture 9.

When it is desired to release the brace-strap from its locked position with reference to the foldable leg, the strap 7 is manually pressed away from the face of the leg, as best shown in Figure 3, in which position the head 11 of the pin is disengaged from the tongue aperture 9, whereby the leg can thus be swung on its pivot to a closed position and the pin will travel downwardly in the strap slot, whereby the strap and leg are folded flat against the bottom 3 of the table.

When the table leg is swung to its functioning position, as shown in Figure 1, there is sufficient spring in the brace-strap to cause the head of the pin to automatically engage the locking aperture 9, and it will also be observed that the lip of the tongue is slightly flared upwardly, whereby the head of the pin will readily enter the space between the bottom surface of the tongue and the opposed surface of the brace, and when the pin is alined with the locking aperture 9, it will snap into its locking position with reference to said aperture.

From the foregoing it will be seen that a simple, economical and effective brace and locking mechanism, namely a strap and a pin, is provided, and attention is also called to the fact that these two parts will function accurately under all conditions, and, due to their simplicity, there is slight liability of the structure failing in its function.

While I have shown and described the invention minutely as to detail with reference to the drawing, it is understood that I may vary the structural features as come within the scope of the claims.

I claim:—

1. The combination of a table including side rails and a top, and a foldable leg in pivotal union therewith, a brace-strap for the leg in pivotal union with the table having a slot therein, the outer end of the strap being folded over to form an apertured tongue spaced from the opposite face of the strap,

and a pin projecting from the leg engaging the slot and for locking engagement with the tongue aperture when the leg is in its functioning position.

2. In a table having side rails and top, a foldable leg pivoted to the side rails, a headed pin extending from the leg at a predetermined distance from its pivot point, a spring metal strap in pivotal union with the table rail having a longitudinal slot therein, the free end of the strap being folded over to form a tongue having an aperture therein for locking engagement with the pin head, the under surface of the tongue being spaced from the opposite surface of the strap to permit clearance for the pin head when said strap is forced away from the table leg to free said pin head from the tongue aperture whereby the leg and strap are folded.

In testimony that I claim the foregoing I have hereunto set my hand at Manitowoc, in the county of Manitowoc and State of Wisconsin.

WILLIAM M. BOENNING.