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H. N. ANDERSON
FOLDING TABLE LEG LOCK
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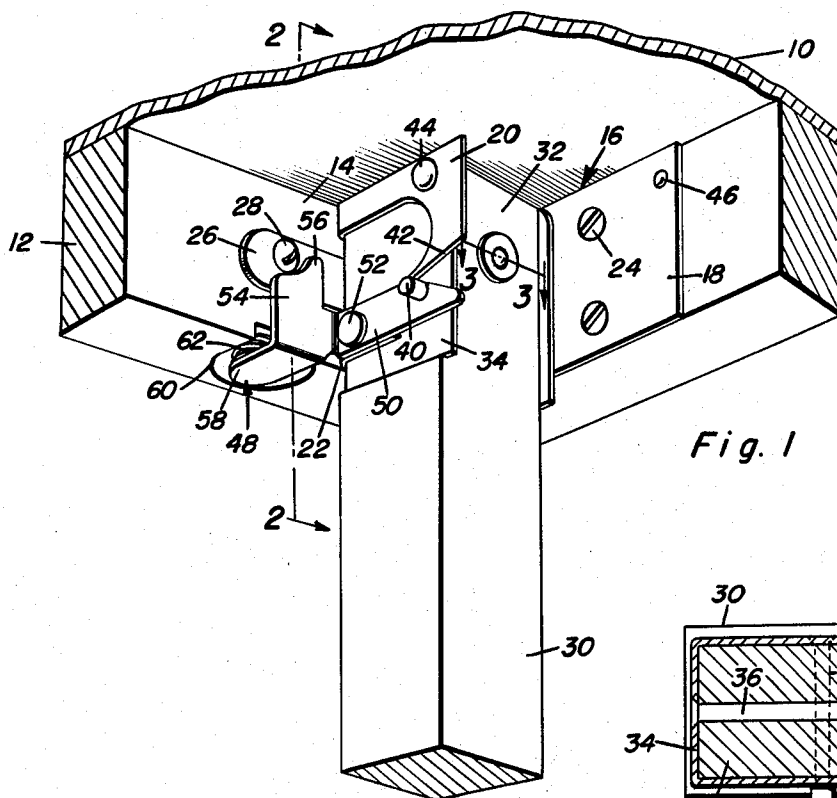


Fig. 1

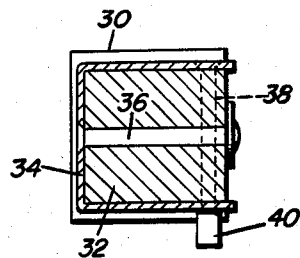


Fig. 3

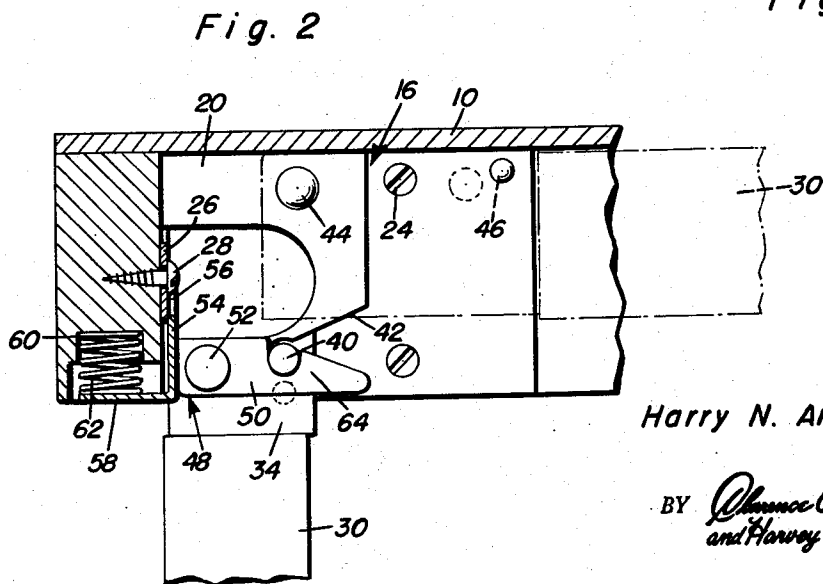


Fig. 2

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FOLDING TABLE LEG LOCK

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3 Claims. (Cl. 311—99)

1

This invention relates to new and useful improvements in leg folding devices and the primary object of the present invention is to provide a folding table leg lock, whereby the supporting legs of a table may be held extended and perpendicular to the top or wherein the legs may be folded against the top.

Another important object of the present invention is to provide a folding table leg lock involving a corner base member that is pivotally attached to a supporting leg and which base member swingably supports a novel and improved locking dog that will lockably engage a pin attached to the supporting leg.

A further object of the present invention is to provide a novel and improved folding table leg lock involving a finger actuated latch means that is readily depressed to permit folding of the leg against a table top and which locking means will lockably engage the leg as the latter is swung to a position perpendicular to the top.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, references being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a fragmentary perspective view of a table structure and showing the present invention operatively connecting the leg to the table top;

Figure 2 is a vertical sectional view taken substantially on the plane of section line 2—2 of Figure 1 and with dotted lines showing the leg raised to an inoperative position against the table top; and,

Figure 3 is a transverse horizontal sectional view taken substantially on the plane of section line 3—3 of Figure 1.

Referring now to the drawings in detail, wherein for the purpose of illustration, there is disclosed a preferred embodiment of the present invention, the numeral 10 represents a table top having a depending peripheral skirt portion 12 that is provided with corners 14. A channel shaped base member 16 is disposed at each corner 14 and comprises spaced parallel flanges 18 and 20 that are connected by web 22.

Flanges 18 are secured against the skirt portion 12 by fasteners 24 and the webs 22 abut surfaces of the skirt portion 12 that are perpendicular to the surfaces to the skirt portion to which the flanges 18 are secured. Tongues 26 are struck outwardly from the flanges 20 and are coplanar with their associated webs 22 to rest

2

against the skirt portion 12. A headed fastener 28 extends through each of the tongues and into these skirt portion to coact with fasteners 24 in retaining the base members secured to the corner defining walls of the skirt portion. The base members 16 will also reinforce and strengthen the adjacent relatively perpendicular parts of the skirt portion 12.

Legs 30 are disposed at the corners of the table top 10 and their upper notched ends 32 are embraced by metallic channels 34 that are secured to the ends 32 by rivets or the like 36. The spaced flanges of the channels 34 are connected together by additional rivets 38 that extend through the ends 32. The rivets 38 are formed with outwardly projecting pins 40 that extend past the flanges 20 and which will clear the notched corners 42 of the flanges 20, when the channels 34 are swung to a vertical position or a position perpendicular to the top 10 upon pivots 44 that extend through the upper corners of the flanges 18, 20 and the upper corners of the channels 34.

Flanges 18 are provided with detents 46 that will be engaged by a flange of each channel 34 as the latter are raised to a position parallel to the table top 10, and thereby retain the legs 30 raised or under the table top. The detents or lugs 46 may be pressed from the flanges 18 or suitably fixedly attached thereto to form cams against which the adjacent flanges of the channels 34 will ride to frictionally retain the legs toward the table top 10.

L-shaped dogs or latches 48 are provided with flat limbs 50 that are pivotly secured to the outer faces of the flanges 20 by pivots 52. The other limbs 54 of the dogs 48 are provided with notched outer free ends 56 that accommodate the heads of fasteners 28 and which will rest against the tongues 26. Perpendicular extensions 58 on the limbs 54 extend from the opposite sides of the limbs 54 from the limbs 50 and underlie recesses 60 in the lower edge of skirt portion 12. Coil springs 62 in the recesses 60 engage the combined abutments and finger grips 58 to urge the limbs 54 against the tongues 26 and the notched ends 64 of limbs 50 across the notched corners 42 of flanges 20.

In practical use of the present invention, as the legs 20 are swung away from the table top 10, the pins 40 will ride or cam against the free ends of the limbs 50 until the pins will snap in the notches in ends 64. In this manner, the legs 30 will be locked perpendicular to the table top 10. As the finger grips 48 are pressed upwardly,

3

the limbs 50 will release the pins and the legs may be swung against the under-surface of the table top.

Having described the invention, what is claimed as new is:

1. A table leg mount comprising a substantially channel shaped base member having spaced flanges and a web connecting said flanges, a mounting tongue struck from one of said flanges, said one of said flanges having a notched corner adapted to receive a pin fixed to a leg that is pivotally secured between said flanges, and a locking dog pivotally attached to the outer pair of said one of said flanges and having a notch in registry with the notched corner to receive a pin entering said notched corner, said dog being substantially L-shaped with the notch in one limb, a finger grip and abutment on the other limb of said dog adapted to underlie a coil spring recessed in the peripheral skirt of a table top, said other limb of said dog having a notched free end portion disposed in juxtaposition with said tongue, and a headed fastener extending through said tongue, the notch in said notched free end portion accommodating the head of said fastener.

2. In a table structure including a top having a depending peripheral skirt portion with corners, a channel shaped base member at each corner of said skirt portion, each of said base members having first and second flanges and a web joining said flanges, the webs and first flanges of said base members contacting relatively perpendicular walls of said skirt portion at the corners thereof, a leg reinforcing channel received within each base member and pivotally secured between the flanges of the base members, a pin fixed to each channel, the second flanges of said base members having notched corners for accommodating the pins to permit the webs of the channels to abut the webs of the base members, an L-shaped locking dog pivoted to the second flanges of the base members and each having a limb engageable with the pins, a combined finger grip and abutment on the other limb of each dog underlying the skirt portion,

4

and coil springs engaging the skirt portion and said combined finger grips and abutments and urging the dogs into locking engagement with the pins.

3. In a table structure including a top having a depending peripheral skirt portion with corners, a channel shaped base member at each corner of said skirt portion, each of said base members having first and second flanges and a web joining said flanges, the webs and first flanges of said base members contacting relatively perpendicular walls of said skirt portion at the corners thereof, a leg reinforcing channel received within each base member and pivotally secured between the flanges of the base members, a pin fixed to each channel, the second flanges of said base members having notched corners for accommodating the pins to permit the webs of the channels to abut the webs of the base members, an L-shaped locking dog pivoted to the second flanges of the base members and each having a limb engageable with the pins, a combined finger grip and abutment on the other limb of each dog underlying the skirt portion, and coil springs engaging the skirt portion and said combined finger grips and abutments and urging the dogs into locking engagement with the pins, a tongue struck from each of the second flanges, a headed fastener securing each tongue to the skirt portion, said other limbs of said dogs having notched ends accommodating the heads of the fasteners and urged toward said tongues by said springs.

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