Jan. 2, 1945. D. DE TOSTI 2,366,499

EXTENSION-LEAF TABLE

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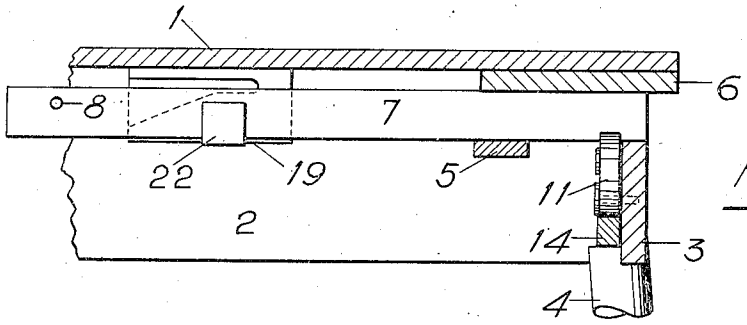


Fig. 1.

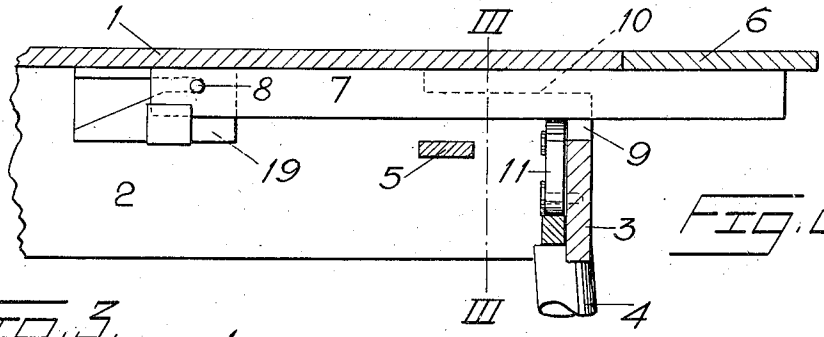
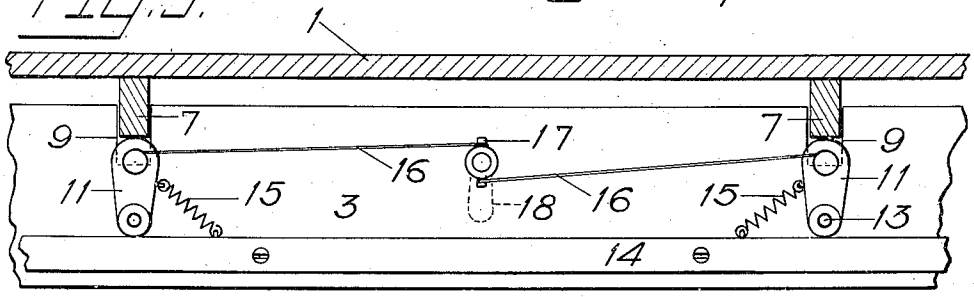


Fig. 2.

Fig. 3.



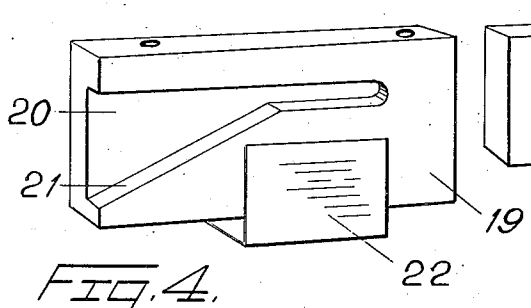


Fig. 4.

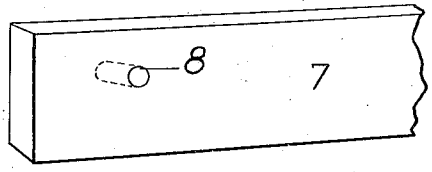


Fig. 5.

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EXTENSION-LEAF TABLE

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Application August 13, 1943, Serial No. 498,466

3 Claims. (Cl. 311—56)

This invention relates to extension-leaf tables.

Such tables of this character as have heretofore been provided lack rigidity and stability and satisfactory means for locking the leaves in extended position.

One object of the present invention is to provide an extension-leaf table of simple and sturdy construction, the leaves of which when locked in position for use are substantially as rigid and firm as the table top itself.

Another object is to provide automatic means which, merely upon pulling the extension leaves out, act to positively and securely lock the same, and to provide simply constructed means for unlocking the leaves.

With these and other objects in view, the invention consists in the novel construction and arrangement of parts hereinafter described, illustrated in the accompanying drawing, and particularly pointed out in the appended claims, it being understood that various changes in the form and constructional details may be made without departing from the spirit of the invention or sacrificing any of the advantages thereof.

In the drawing,

Fig. 1 is a fragmentary cross-sectional view taken longitudinally through the table and showing one extension leaf in closed or retracted position;

Fig. 2 is a view similar to Fig. 1, but showing the extension leaf fully extended and locked in position for use;

Fig. 3 is a slightly enlarged cross-sectional view, taken on the line III—III of Fig. 2, and showing the inside of one end of the table;

Fig. 4 is an enlarged perspective view of a sliding-bar raising-and-stop block; and

Fig. 5 is a similar view of one end of a sliding-bar.

Referring to the drawing, 1 is the table top, having side and end frame members, 2, 3, respectively, and legs (only one shown) 4, 5 being a laterally disposed supporting bar extending between and fastened at its ends to opposite side members 2. At each end of the table, an extension leaf 6, fixed crosswise upon the ends of a pair of sliding-bars 7, is adapted for retraction and concealment, when closed, beneath the end of the table top (see Fig. 1). The sliding-bars 7 are held and adapted to slide in slots 9 cut in the end frame members 3, each bar having a projecting dowel stop 8 fixed in its opposite end. The frame members 3 and a portion of the frame members 2 are "cut away" as at 10, and therefore are spaced from the table top 1 at each end thereof, so as to accommodate the leaves 6 in their closed position. A pair of cams 11 are pivoted as at 13 (Fig. 3) on the inside of each end member 3, one directly under each sliding-bar 7, and a supporting rail 14 is fixed to each end member 3 below and in contact with said cams.

For the sake of clearness in the drawing, the means for controlling the cams are shown only in Fig. 3 and comprise: springs 15 which normally urge the cams toward and so as to raise the sliding-bars 7, so that when a leaf 6 is pulled out the sliding bars are consequently raised, the cams under the action of said springs becoming wedged between said bars and supporting rail 14; cords 16 attached one end to each cam and at their opposite ends to a pin 17 keyed to a knob 18 which latter, when turned, draws both cams 11 of the pair inwardly from under the sliding-bars 7 and permits the latter to fall in their slots 9 so that leaf 6 may be pushed in under the top 1 to closed position.

For each sliding-bar 7 a corresponding block 19 is provided fastened to the underside of the table top 1 and having a groove 20 open at one end and formed with an inclined plane on its lower shoulder 21 which lies in the path of the projecting dowel stop 8 on sliding-bar 7 and serves to raise the end of said bar as the extension leaf 6 is pulled out for use, while the closed end of said groove acts to stop the dowel 8, and consequently the sliding-bar 7, from further outward movement at the point where the leaf is fully extended. A bracket 22 fixed to block 19 holds the sliding-bar 7 in cooperating position with said block.

Although the drawing and the above specification disclose the best mode in which I have contemplated embodying my invention, I desire to be in no way limited to the details of such disclosure, for, in the further practical application of my invention, many changes in form and in constructional details may be made as circumstances require or experience suggests without departing from the spirit of the invention within the scope of the appended claims.

I claim:

1. In an extension-leaf table of the character described, a leaf mounted upon one end of a pair of sliding-bars, a projecting dowel pin adjacent the other end of each sliding-bar, a block for each sliding-bar fixed to the underside of the table top and having one face thereof in contact with said bar, said face being formed with a groove having an inclined plane at one end thereof in the path of said dowel pin and being closed at its other end, cams mounted for pivotal

movement on the table frame under said sliding-bars, springs on the frame normally tending to hold said cams under said bars when said leaf is extended for use, a rotatable pin between said cams, a knob keyed to said pin, and a cord fixed to said pin and having its opposite ends fastened one to each cam for withdrawing the cams from said sliding-bars against the action of said springs.

2. In an extension-leaf table of the character described, a leaf mounted upon one end of a pair of sliding-bars, a projecting dowel pin adjacent the other end of each sliding-bar, a block for each sliding-bar fixed to the underside of the table top and having one face thereof in contact with said bar, said face being formed with a groove having an inclined plane at one end thereof in the path of said dowel pin and being closed at its other end, cams mounted for pivotal movement on the table frame under said sliding-bars, springs on the frame normally tending to hold the working faces of said cams under said bars when said leaf is extended for use, a rotatable pin between said cams, a knob keyed to said pin, a cord fixed to said pin and having its opposite ends fastened one to each cam for withdrawing the cams from said sliding-bars against the action of said springs, and a supporting rail fixed to said frame below and in contact with said cams.

3. In an extension-leaf table of the character described, a leaf mounted upon one end of a pair of sliding-bars, a projecting dowel pin adjacent the other end of each sliding-bar, a block for each sliding-bar fixed to the underside of the table top and having one face thereof in contact with said bar, said face being formed with a groove having an inclined plane at one end thereof in the path of said dowel pin and being closed at its other end, a bracket fixed to said block and holding the sliding-bar in cooperating position therewith, cams mounted for pivotal movement on the table frame under said sliding-bars, springs on the frame normally tending to hold the working faces of said cams under said bars when said leaf is extended for use, a rotatable pin between said cams, a knob keyed to said pin, and a cord fixed to said pin and having its opposite ends fastened one to each cam for withdrawing the cams from said sliding-bars against the action of said springs.

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