March 31, 1936. L. F. NORMAND 2,035,565

EXTENSION TABLE

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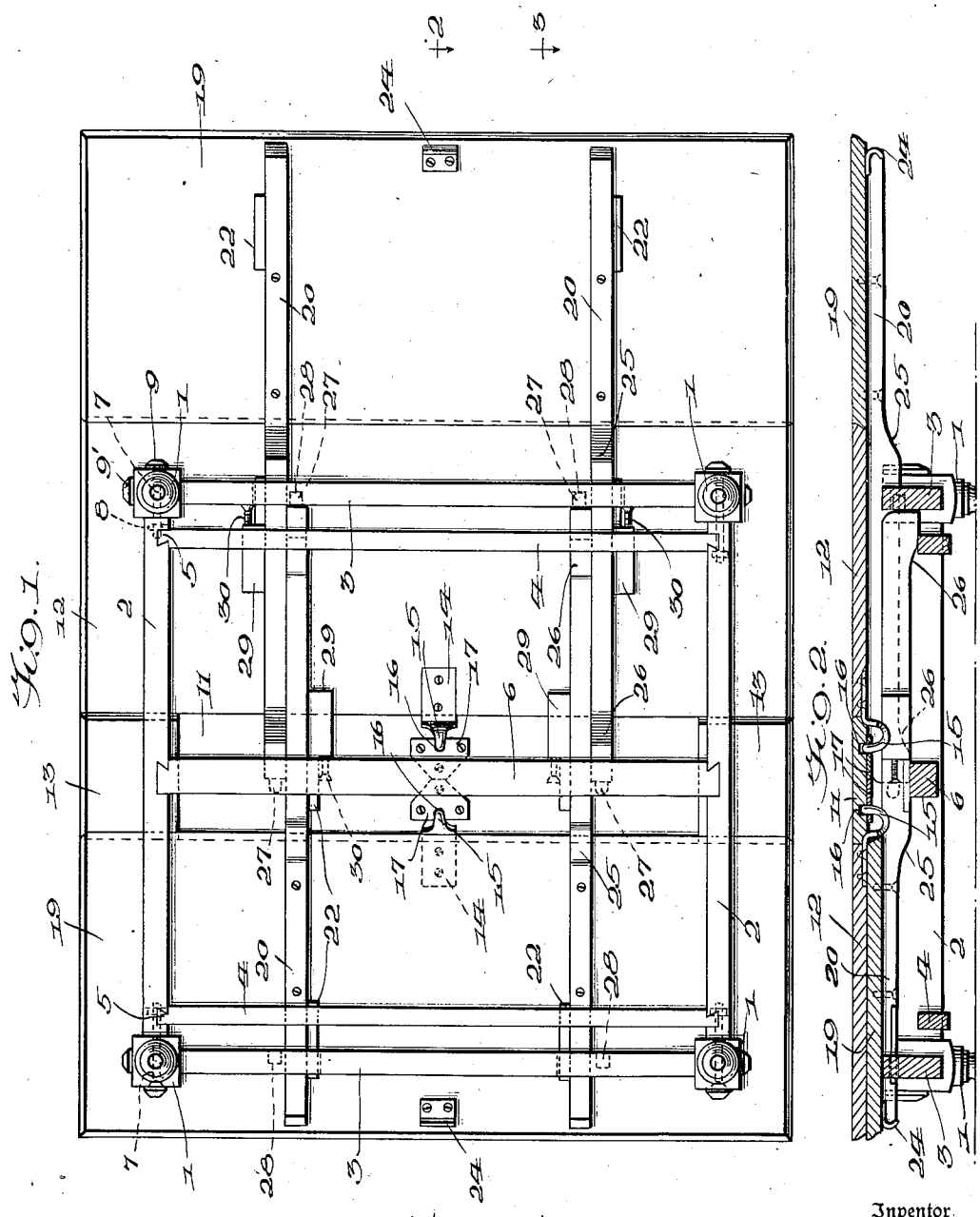


Fig. 1.

Fig. 2.

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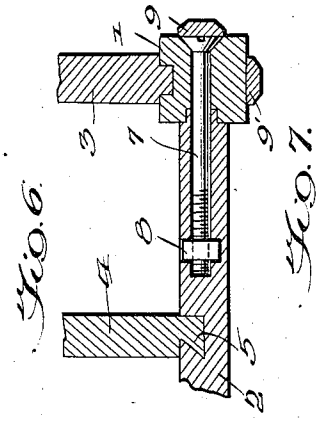
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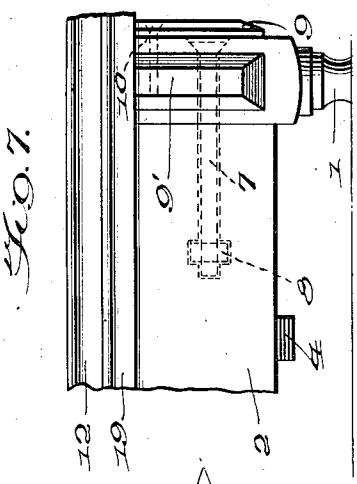
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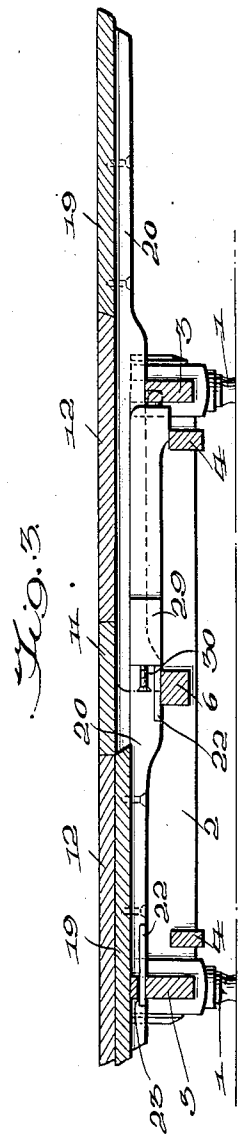
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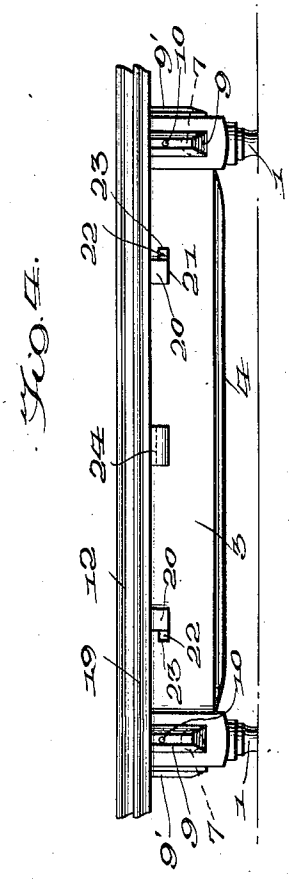
EXTENSION TABLE

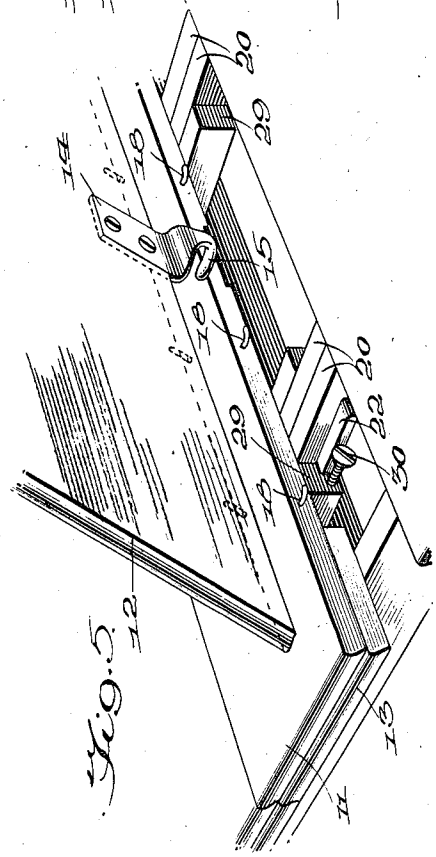
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EXTENSION TABLE

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Application September 2, 1933, Serial No. 688,037

14 Claims. (Cl. 311—56)

This invention relates to an improvement in extension tables having additional leaves to be extended and form a continuation of the normal table top.

The object of the invention is to improve the manner of extending the leaves or returning them to nested positions after use, without chafing or injuring the leaves, and also permitting one of the leaves to be extended independently of the other. Hinge means is provided for the normal table top sections which hold said sections flush and yet adjustable for wear or shrinkage.

Another feature of the invention involves demountable legs attached together in pairs by the end rails for shipping or storage. The side rails are connected together by dove-tailed cross-bars to rigidly brace the structure and to hold the parts solidly together after removal of the end rails and legs. The legs are detachably bolted to the side rails and have movable cover pieces for covering the bolts and giving the appearance of through tenons.

In the accompanying drawings,

Fig. 1 is a bottom view of my extension table having one side thereof extended;

Fig. 2 is a longitudinal vertical section therethrough on the line 2—2, of Fig. 1;

Fig. 3 is a similar view on the line 3—3, of Fig. 1;

Fig. 4 is an end elevation of the table;

Fig. 5 is a detail perspective view of adjacent edges of the table top sections;

Fig. 6 is a horizontal sectional view through one of the legs, showing the connections with the side and end rails; and

Fig. 7 is a side elevation thereof.

The legs are designated by the numeral 1; the side rails, 2; and the end rails, 3. The side rails 2 have corresponding end portions thereof connected together by cross-bars 4, having dove-tailed connections 5 with the side rails 2. A central cross-bar 6 is likewise connected between intermediate portions of the side rails 2.

The legs 1 at corresponding ends of the table are rigidly fixed to the end rails 3 therebetween and are removable as a unit from the side rails 2 for shipment or storage, the structure being rigidly held by the cross-bars 4 after removal of the legs and end rails. Bolts 7 extend through the legs 1 and into the side rails 2, as shown in Fig. 6, having nuts 8 imbedded in the side rails 2, and said nuts have the bolts threaded thereinto for rigidly but removably securing the legs to the side rails 2. Cover pieces 9 are pivoted at 10 to the sides of the legs through which the bolts 7 extend, in position to swing over the bolt-heads and cover the same. Similar cover pieces 9' are attached to the adjacent sides of the legs 1 for ornamental effect. The cover pieces 9 and 9' are so shaped and arranged, as shown particularly in Figs. 4, 6, and 7, as to give the appearance of through tenons.

The normal table top has a central section 11 and side sections 12. The central section 11 is supported on the side rails 2 by spacer blocks 13 which correspond in thickness with the table top. The side sections 12 are hingedly connected with the central section 11. Each of the side sections 12 carries a plate 14, see Fig. 5, fixed to the under surface thereof and terminating in a forwardly and upturned prong 15, in position to enter an opening 16 in a plate 17 fixed to the under surface of the central section 11, as shown in Figs. 1 and 2. The construction of this hinge between the sections 11 and 12 holds said sections flush and yet is adjustable for wear or shrinkage. It also permits swinging or removal of the side sections 12, as required. Interfitting dowels 18 are arranged between the adjacent edges of the sections 11 and 12, but said dowels are slightly curved upwardly or inclined to facilitate swinging of the side sections 12.

The extension leaves are designated 19, and are supported on slide bars 20, riding on the upper surfaces of the central and end cross-bars 6 and 4 as shown in Figs. 2 and 3, and also in notches 21 in the end rails 3. The bars 20 have side ribs 22 at longitudinally spaced points thereon to engage in offset portions 23 of the notches 21 to lock said slide bars against accidentally raising the extension leaves 19 in either extreme position thereof. Handles 24 are attached to the under surfaces of the leaves 19 to facilitate the withdrawal or replacement thereof.

The under edges of the slide bars 20 have curved cam portions 25 and 26 in position to engage respectively the lower edges of the notches 21 and the upper edge of the central cross-bar 6 as the leaves 19 are pulled outwardly in order to raise the leaves flush with the normal table top sections 11 and 12, the sections 12 swinging up on their hinges sufficiently to permit the rise in the leaves 19. In either extreme position of the leaves 19, the slide bars 20 are locked against accidental vertical movement by engagement of the ribs 22 in the offset portions 23 of the notches 21.

The extreme inner ends of the slide bars 20 may have pins 27 to enter openings 28 in the end rails 3 to hold the inner ends of the bars in place in the

nested position of the table, as shown in dotted lines in Fig. 1. A block 29 attached to one side of each slide bar 20 carries an adjustable stop 30 which may be in the form of a screw, the head of which is in position to abut against the inner side of the end rail 3 to limit the outward movement of the leaf carried thereby.

Upon opening the table from a nested position, it is only necessary to pull outwardly on either handle 24 which draws the leaf 19 outward from under the side section 12, the latter tilting up slightly on its hinge as the cam portions 25 of the slide bars 20 ride up in the notches 21, and then the section 12 drops back into place flush with the raised leaf 19 and the central section 11, being supported on the raised slide bars 20. Either or both extension leaves may be pulled out, as desired.

In returning the leaves to retracted positions, it is only necessary to raise the outer edges of the side sections 12, and push inward on the leaves, which slide under the side sections and drop below them because of the cam portions 25 and 26, in position to support the side sections flush with the central section 11.

I claim:

1. An extension table comprising a frame, legs therefor, a normal table top having a central section and side sections movable relative thereto, the central section being supported by the frame, extension leaves normally nested beneath the side sections, and slide bars slidably mounted in the frame and carrying the extension leaves fixed relative thereto for sliding one or both of said leaves outwardly from under the side section or sections and in abutting relation against the edges of the side sections, said slide bars having means for raising the extended leaf or leaves flush with the normal table top, and said slide bars having approximately the entire upper edge portions thereof extending parallel with the under surfaces of the side sections and disposed in positions to engage and support said section or sections approximately throughout the width thereof upon extension of one or both leaves.

2. An extension table comprising a frame, legs therefor, a normal table top having a central section and side sections hinged thereto, the central section being supported by the frame, extension leaves normally nested beneath and supporting the side sections on the top surfaces thereof, and slide bars slidably mounted in the frame and carrying the extension leaves fixed relative thereto for sliding said leaves outwardly from under the side sections and in abutting relation against the edges of the side sections, said slide bars having inclined portions on the under edges thereof for raising the extension leaves flush with the normal table top, and said slide bars having approximately the entire upper edges thereof that lie beneath the side sections in extended positions extending parallel with the under surfaces of the side sections and disposed in positions to engage and support said sections approximately throughout the width thereof upon extension of the leaves to the outer edges of the side sections.

3. An extension table comprising legs, a frame carried by the legs and having notches in end portions thereof, slide bars slidably mounted in the notches with horizontal upper edge portions and inclined lower edge portions, extension leaves carried by the slide bars and fixed relative thereto, and a normal table top including a central section and side sections hinged to the central section and supported on the horizontal upper edges of the slide bars when the leaves are extended to and in abutting relation with the outer edges of said side sections.

4. An extension table comprising legs, a frame carried by the legs and having notches in end portions thereof, slide bars slidably mounted in the notches with horizontal upper edge portions and inclined lower edge portions, extension leaves carried by the slide bars and fixed relative thereto, a normal table top including a central section and side sections hinged to the central section and supported on the horizontal upper edges of the slide bars when the leaves are extended to the outer edges of said side sections, the inclined lower edge portions of the slide bars raising the leaves flush with the normal table top on said outward sliding movement and in abutting relation with the outer edges of the side sections, the notches having undercut portions, and ribs carried by the sides of the bars in position to enter said undercut portions and hold the bars against accidentally raising the leaves.

5. An extension table comprising legs, a frame carried by the legs and having notches in end portions thereof, slide bars slidably mounted in the notches with horizontal upper edge portions and inclined lower edge portions, extension leaves carried by the slide bars, a normal table top including a central section and side sections hinged to the central section and supported on the horizontal upper edges of the slide bars when the leaves are extended to the outer edges of said side sections, blocks carried by the sides of the slide bars, and screws adjustably threaded into the blocks with the heads thereof in position to abut against the frame upon outward movement of the leaves to limit said movement.

6. An extension table comprising supporting legs, a frame carried thereby, a central top section carried by the frame and having an opening in the under surface thereof, side sections disposed on either side of said central section, and an upturned prong carried by one of the side sections in position to enter the opening forming a hinge joint between said side section and the central section.

7. An extension table comprising supporting legs, a frame carried thereby, a central top section carried by the frame and having openings in the under surface thereof, side sections disposed on either side of the central section, and a bracket carried by each side section having an outwardly extending upturned prong slidably received in an opening forming a hinge joint between the central section and each side section.

8. An extension table comprising supporting legs, a frame carried thereby, a central top section carried by the frame, plates carried by the under sides of the central section having openings therein, side sections disposed on either side of the central section, and brackets carried by the side sections with outwardly extending and upturned prongs slidably received in the openings in the plates forming hinged joints between the central and side sections.

9. An extension table comprising legs, a frame carried thereby, a central top section carried by the frame, a side section mounted beside the central section for upward swinging movement about the adjacent edge of the central section, and one or more inclined dowels arranged between the adjacent edges of the central and side sections.

10. An extension table comprising legs, a frame carried thereby, a central top section carried by

the frame, a side section hinged to an edge of the central section for upward swinging movement relative thereto, and one or more inclined dowels carried by the edge of the central section in position to enter one or more openings in the edge of the side section.

11. An extension table comprising legs, a frame carried thereby, a central top section carried by the frame, side sections hinged to the edges of the central section for upward swinging movement relative thereto and having openings in the edges thereof, and inclined dowels carried by the edges of the central section in position to enter the openings.

12. In an extension table having a frame, slide bars slidable relative to the frame, and an extension leaf carried by the slide bars, the combination of longitudinally adjustable screw stops carried by the slide bars in position to abut against the frame to limit movement of the leaf.

13. In an extension table having a frame, slide bars slidable relative to the frame, and an extension leaf carried by the slide bars, the combination of blocks carried by the sides of the slide bars, and longitudinally adjustable screw stops threaded into the blocks in position for the heads thereof to abut against the frame upon outward movement of the leaf to limit said movement.

14. An extension table comprising a frame, legs therefor, a normal table top having a central section supported by the frame, side sections movable relative to the central section, extension sections normally nested beneath and supporting the side sections, and slide bars slidably mounted in the frame and having the extension leaves fixed relative thereto on the outer end portions thereof for sliding said extension leaves outwardly from under the side sections, said slide bars having means for raising the extension leaves flush with the normal table top and in abutting relation against the edges of the side sections, and said slide bars having the upper edges thereof inwardly of the extension leaves carried thereby extending parallel with the under surfaces of the side sections in position to engage and support said side sections approximately throughout the width thereof upon extension of the leaves to the outer edges of the side sections.

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