March 6, 1934. O. LANDAW 1,949,800

EXTENSION LEAF TABLE

Filed April 1, 1932 2 Sheets-Sheet 1

Fig. 1.

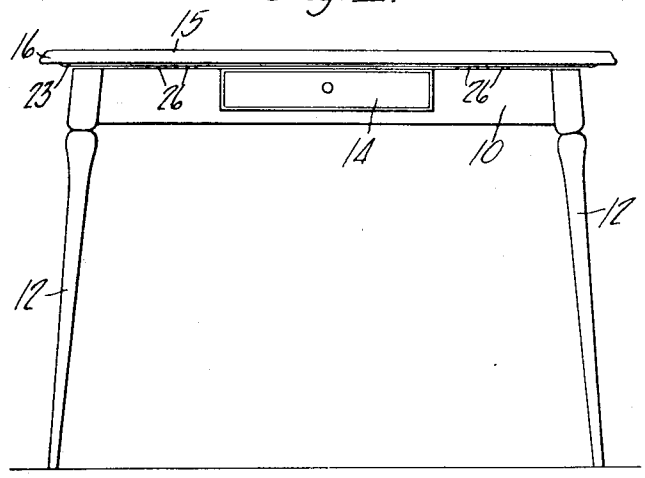
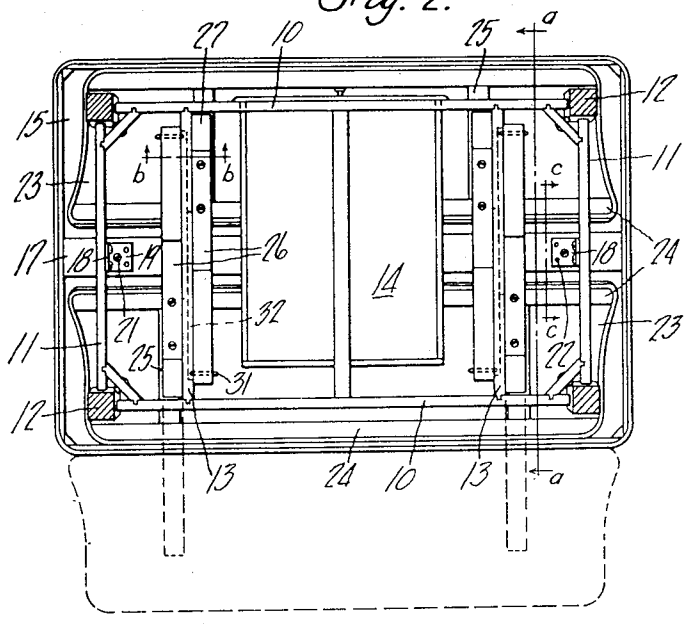


Fig. 2.



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Fig. 3.

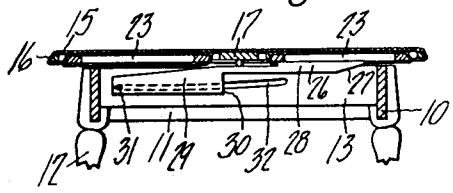


Fig. 4.

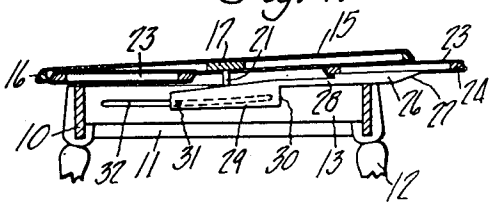


Fig. 5.

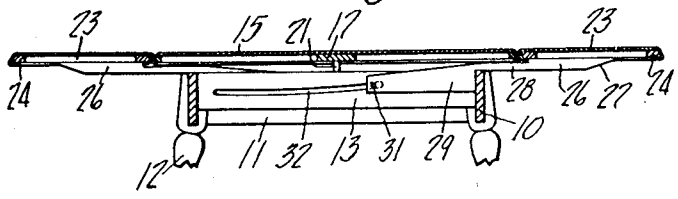


Fig. 7.

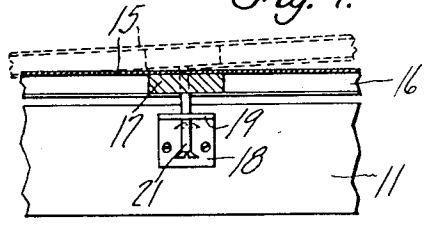
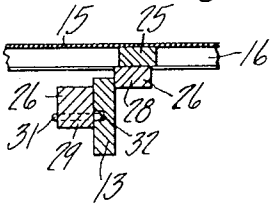


Fig. 6.



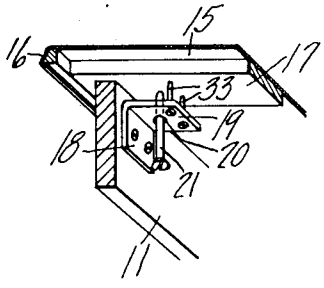


Fig. 8.

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EXTENSION LEAF TABLE

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Application April 1, 1933, Serial No. 663,896

9 Claims. (Cl. 45—113)

The invention relates to extension leaf tables of the type in which the extension leaves are normally disposed beneath the table top and are slidable outwardly into alignment with the table top; and has for its principal object to provide a table of this character in which the extension leaves are mounted on guide bars which are hidden when the leaves are in retracted position and in which the rails of the table frame are uninterrupted.

Previous table constructions of this character have been provided with routed frame rails through which the leaf guide bars extended at all times, which routed frame rails and projecting guide bars were visible and detracted from the appearance of the table.

A further object is to provide a table of this character with improved means for guiding and limiting vertical movement of the table top.

A further object is to provide a table of this character with means for locking the table top stationary to the frame while being shipped and handled.

A further object is to provide a table of this character with improved leaf mounting and guiding means.

With the above and other objects in view, the invention resides in the combination and arrangement of parts as hereinafter set forth, shown in the drawings, described and claimed, it being understood that changes in the precise embodiment of the invention may be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawings:

Figure 1 is a view of the table in side elevation.

Figure 2 is a bottom plan view of the table with the legs shown in section.

Figure 3 is a vertical transverse sectional view taken on line *a—a* of Figure 2 and illustrating the leaves in retracted position.

Figure 4 is a vertical transverse sectional view of the table taken on line *a—a* of Figure 2 and illustrating one leaf retracted and the other partially extended.

Figure 5 is a vertical transverse sectional view taken on line *a—a* of Figure 2 and illustrating the leaves in extended position.

Figure 6 is a fragmentary vertical sectional view taken on line *b—b* of Figure 2 and illustrating the leaf guide bars and cooperating frame member.

Figure 7 is a fragmentary vertical sectional view taken on line *c—c* of Figure 2 and illustrating the top mounting bracket.

Figure 8 is a fragmentary perspective view of the table illustrating the bracket connection of the table top and table frame.

Referring to the drawings, which illustrate one embodiment of the invention, the numeral 10 designates the side rails and 11 the end rails of a table frame mounted upon legs 12. Extending between the side rails 10 and spaced from the end rails 11 are a pair of spaced intermediate frame members 13. A drawer 14 is mounted in the table frame between said intermediate frame members 13.

A table top 15, preferably formed of sheet metal and provided with marginal depending flanges 16, is positioned above the table frame and carries a centrally longitudinally extending cleat 17 at its under side. An angle iron bracket 18 is fixedly secured to the inner face of each end rail 11 adjacent the upper edge thereof and below cleat 17, whereby a flange 19 thereof extends inwardly of said end rail in a plane slightly below the plane of the upper edge of said end rails. A central aperture 20 is formed in the flange 19 of each bracket 18 through which a headed pin 21 fixedly secured to and depending from the cleat 17 of the table top may loosely extend. A pair of apertures 22 are also formed in the flange 19 of each bracket 18, for purposes to be hereinafter set forth.

A pair of extension leaves 23, preferably formed of sheet metal, and provided with a reinforcing frame comprising marginal frame members 24 and transverse intermediate frame members 25 are each normally housed beneath said table top 15 on opposite sides of cleat 17. Each extension leaf 23 is provided with a pair of guide bars 26, each of which is secured to one of the intermediate frame members 25 of the extension leaf. The guide bars 26 are each shaped to provide an inclined under face 27 at their outer ends. The guide bars 26 are provided with outer portions 28 of comparatively narrow dimension and terminate in inner portions 29 of increased thickness, the forward edge of portion 29 forming a vertical shoulder 30. The upper face of the inner portions 29 of the guide bars is preferably rearwardly downwardly inclined. The guide bars 26 of each extension leaf are disposed in sliding face engagement with the intermediate frame members 13 of the table frame, and each carries a pin 31 projecting laterally thereof adjacent the inner end of portion 29 thereof and shiftable in a slot 32 formed in the adjacent face of the adjacent intermediate frame member 13 of the table frame. The slot 32 extends longitudinally of said member 13 and is of a length slightly greater than the width of the extension leaf 23. The slot 32 is preferably slightly upwardly curved from its rear to its forward end, and the difference in the height of the forward end of the slot as compared to the rear end thereof is equal to the thickness of the outer portions 28 of the guide bars 26.

The extension leaves are supported on the table frame, and are normally positioned in retracted

relation beneath the table top and in nested relation thereto, as illustrated in Figure 3. In this position the ends of the guide bars 26 are disposed inwardly of the frame guide rails, whereby they are concealed, and the table appears to be of conventional construction. From this position the leaves may be extended by first raising the table top, as by tilting the same at one end as illustrated in Figure 4, said tilting being limited by engagement of the head of pin 21 with flange 19 of bracket 18. The leaf is thus released for outward movement toward extended position. In the outward movement of the extension leaf, the inclined faces 27 of the guide bars 26 engage and ride up over the upper edge of the side rail 10 of the table frame to raise the extension leaf a distance equal to the thickness of outer portion 28 of the guide bars. Further outward movement of the extension leaf is guided by the movement of the narrow portion of the guide bar on the edge of the side rail of the table frame and by the movement of the pins 31 carried by the guide bars in the curved slots 32 of the intermediate frame members 13 of the table frame, which raise the inner edge of the leaf to horizontally position the same when extended. The outward movement of the extension leaf is limited by the engagement of the shoulder 30 thereof with the inner face of the side bar 10 of the table frame. The shoulder 30 is so positioned that it permits the extension leaf to assume a position just clear of the edge of the table top, which may then be lowered to the position illustrated in Figure 5 in the plane of the extended extension leaf in which it is supported by the upper faces of the guide bars. It will be seen that to retract the leaf, the table top is again raised to permit inward movement of the leaf to its original position, whereupon the table top may again be lowered to assume its original position above the extension leaf.

When it is desired to lock the table top to the frame to prevent accidental shifting of the leaves, as for shipping purposes, screws 33, illustrated in Figure 8, may be inserted through apertures 22 in the flanges 19 of the angle brackets 18 and secured to the cleat 17 of the table top. By this means the table top is securely held in fixed relation to the table frame.

While the invention is illustrated for use with a concealed extension leaf table, it is obvious that the same construction may be employed with the exposed leaf or "refectory" type of table. In such constructions the table top is raised to permit free movement of the extension leaf to extended position, though this movement is not required for the release of the extension leaves from nested concealed position, as in the type of table illustrated. In all other respects the construction of the "refectory" type tables are the same as in the type of table here illustrated.

The invention having been set forth, what is claimed as new and useful is:—

1. An extension table comprising a frame, a table top having marginal depending flanges and vertically shiftable relative to said frame, an extension leaf normally nested within the marginal flange of said top, a guide bar carried by said leaf and supported by said frame, said guide bar being normally disposed entirely within said frame to be normally hidden by said frame and being provided with an inclined outer end and a shoulder spaced from the outer end thereof, means disposed entirely within said frame for guiding said guide bar including a pin and slot connection with said guide bar vertical shifting of said top releasing said leaf for movement relative to said frame to raised extended position outwardly of said top under the control of said guide bar and guide means, said shoulder limiting the outward movement of said guide bar, said table top being supported by said guide bar in the plane of said leaf when said leaf is extended.

2. An extension table comprising a frame, a table top carried by and shiftable vertically of said frame, an extension leaf normally disposed beneath said top, a guide bar carried by said leaf and supported by said frame, said guide bar being normally positioned within said frame and being provided with an inclined outer face and a shoulder spaced from the outer end thereof, means disposed entirely within said frame for controlling said guide bar and including a pin and slot connection with said guide bar, said guide bar being shiftable outwardly of said frame to raised extended position outwardly of said top under the control of said guide bar and guide means with said shoulder engaging said table frame, said table top being supported by said guide bar in the plane of said leaf when said leaf is extended.

3. An extension table comprising a frame including a guide cleat, a table top, means connecting said top to said frame for limited vertical movement of said top, an extension leaf normally disposed beneath said top, a guide bar carried by said leaf, said guide bar being provided with an inclined outer end portion normally spaced inwardly of the adjacent frame portion and having sliding face contacting engagement with said guide cleat, and a pin and slot connection between said guide cleat and the inner end of said guide bar, said guide bar being shiftable outwardly on said frame to raised extended position outwardly of said top under the control of said inclined guide bar, said guide cleat and said pin and slot said top being supported by said guide bar in the plane of said extension leaf when said leaf is extended.

4. An extension table comprising a table top, a table frame, means connecting said top to said frame for limited vertical movement relative thereto, an extension leaf normally disposed beneath said top, a guide bar carried by said frame and mounting said extension leaf, and means disposed entirely within said frame for guiding and lmiting the movement of said guide bar relative to said frame including a pin and slot connection between said frame and the inner end of said guide bar, said guide bar being normally positioned entirely within said frame to be hidden thereby and being shiftable relative to said frame under the control of said guide means to a raised position outwardly of said table top, said table top being supported by said guide bar in the plane of said leaf when said leaf is extended.

5. An extension table comprising a table top, a table frame comprising uninterrupted rails, means connecting said top to said frame for limited vertical movement relative thereto, an extension leaf normally disposed beneath said top, a bar normally disposed inwardly of said frame and mounting said extension leaf, and means normally disposed inwardly of and hidden by said frame rails for guiding shifting of said bar including a pin and slot connection with bar, said bar being shiftable relative to said frame guided by said guide means to a raised position outwardly of said top, said top being supported by said guide bar in the plane of said leaf when said leaf is extended.

6. An extension table comprising a frame hav-

ing uninterrupted rails, a table top, means connecting said top to said frame for limited vertical movement relative thereto, an extension leaf normally disposed beneath said top, a bar carried by said leaf and shiftable relative to said frame, and means guiding the movement of said bar relative to said frame whereby said leaf is extensible to a raised position outwardly of said top, said top being supported by said bar when said leaf is extended, said bar and guide means being disposed entirely within and hidden by said frame when said leaf is retracted.

7. The combination with a table frame comprising uninterrupted rails and spaced parallel cleats extending between opposed rails, a table top shiftable vertically of said frame, of a pair of extension leaves normally disposed beneath said top, guide bars carried by each leaf and each having sliding face contacting engagement with one of said cleats, the outer ends of said bars each being provided with an outwardly upwardly inclined face slidable over the adjacent frame rail when its leaf is extended, said guide bars being disposed within and hidden by said rails when said leaves are retracted and being guided solely by said cleats in moving to and from extended and retracted positions.

8. The combination with a table frame comprising uninterrupted rails and spaced parallel guide cleats extending between opposite rails, a table top, of a pair of extension leaves normally disposed beneath said top, guide bars carried by each leaf and each having sliding face contacting engagement with one of said cleats, to direct the horizontal component of the extension movement of said leaves, said guide bars being normally spaced inwardly of and being slidable over said frame rails to extended position outwardly of said top, and guide means between said cleats and said bars and positioned within said frame which direct the vertical component of the extension movement of said leaves.

9. The combination with a table frame comprising uninterrupted rails and spaced parallel guide cleats extending between opposite rails, a table top, of an extension leaf normally disposed beneath said top, guide bars carried by said leaf and disposed in face contacting engagement with said guide cleats, said guide bars normally being spaced inwardly of said frame, said extension leaf being slidable over said frame to a position outwardly of said top and guided by said guide bars and cleats.

OAK LANDAW.