

UNITED STATES PATENT OFFICE.

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EXTENSION-TABLE.

1,004,220.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EMIL TYDEN, a citizen of the United States, residing at Hastings, in the county of Barry and State of Michigan, have invented new and useful Improvements in Extension-Tables, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof.

The purpose of this invention is to provide an improved construction of extension table, comprising a device for locking the table top members either in closed position or at extended position at which one or more fillers may be introduced.

It consists of the elements and features of construction and their combinations shown and described as indicated in the claims.

In the drawings:—Figure 1 is a vertical longitudinal section of the central upper portion of an extension table equipped with this invention. Fig. 2 is a plan view of such table partly extended with the top partly broken away to disclose the interior elements.

This invention may be embodied in tables having the top members extensible relatively to the pedestal or other supporting member, and also to tables having divided pedestal for extension by separation of the members of such pedestal. In the drawings, it is shown as applied to a table having a divided pedestal, but it will be understood from the following description that the extension and locking of the top members may be effected by devices shown while the pedestal remains closed and locked, and therefore said devices may be so used if the pedestal is not divided or otherwise constructed for extension. The two pedestal members, A and B, when the pedestal is thus divided may be provided with any familiar means for locking the members together, such as the familiar one illustrated, which will not be further described. The table top members, C and D, are mounted for extension relatively to the pedestal, said top members and pedestal members being connected for the extensions mentioned by the customary slides comprising in each group a middle or floating slide, E, (which may carry a center leg, of which a rudiment is shown at E¹) slides, F, F, on opposite sides of the slide, E, connected to the opposite pedestal members respectively, and slides, G, G, outside of the

slides, F, F, connected to the opposite top members respectively. The two floating slides, E, E, are connected by the customary bridge, J. On this bridge there is mounted a longitudinally extending bar, H, and overhanging the bar, connected as hereinafter described to the top members, C and D, respectively, are dogs, M and N. The dog, M, is preferably pivoted to the top member, D, and adapted to engage by gravity apertures, notches or abutments, *h*, in or on the bar, H, one of such notches, apertures or abutments being at position for such engagement of the dog when the top member is at closed position without intervening fillers, and the other notches, apertures or abutments being situated outwardly from the first one toward the end of the table at intervals equal to a half filler width. The dog, N, is pivoted to a longitudinal slide bar, N¹, mounted in a slide bearing, N², upon the under side of the top member, C, provided with a spring, L, which operates to thrust it inward,—that is, toward the vertical meeting plane of the top members,—a spring, L¹, being provided operating on the dog for swinging it upward out of position for engagement with the bar, H, which is provided with notches, apertures or abutments, *h*¹, corresponding to those provided for the engagement of the dog, M. The slide bearing, N², of the bar, N¹, has at the inner end a spring finger, *n*², overhanging the pivoted dog, N, with which the upper edge of the dog collides when it is drawn outward by the bar, N¹, with the effect of yieldingly forcing the dog downward into position for engagement with the notches, *h*¹.

The bar, N¹, is connected by an operating rod, N³, with a lever, N⁴, pivotally mounted under the outer end of the table for drawing the bar, N¹, outwardly against the resistance of the spring, L, to locked position when the pivotal connection of the rod to the lever swings up past the pivot of the lever. When thus operated, the first effect is to cause the dog, N, to be forced downward onto the bar, H, along which it may slide until it reaches one of the notches or apertures, *h*¹, with which it becomes engaged under the reaction of the spring, *n*², and the further retraction of the bar, N¹, then causes the top member, C, to be crowded slightly inward toward the meeting plane of the two top members for taking up any slack or looseness between said members or between the

same and any fillers which may have been interposed. When the lever, N^4 , is swung down inward for unlocking the device, the spring, L , thrusting the rod, N^1 , inward causes the dog, N , to be carried past the spring finger, n^2 , and to be retracted by its spring, L^1 , out of the notch in which it may have been engaged, thus unlocking the top member to permit its extension for removing or admitting fillers. The first opening movement of the table when previously closed without fillers gives access to the dog, M , which is manually released from the bar, H , permitting the top member, D , to be moved outwardly one or more half filler widths for engagement of the dog with the proper notch or aperture of the bar, H , to hold the member, D , at the extended position corresponding to the number of fillers to be introduced. The member, C , will then be moved out until the dog, N , is in position for engaging with the corresponding aperture, h^1 ; that is, so that the two top members are each removed from central position the same number of half filler widths, so that when the fillers are introduced and the table is locked it will be equally extended in both directions and as well balanced over the pedestal as when fully closed.

It will be obvious that it is immaterial whether the extension of the top members is made by moving them on their respective pedestal members or by moving them with such members,—that is, so far as the locking and releasing is concerned,—because the middle or floating slide, E , does not move with either pedestal member but may retain its medial position when they are extended. One advantage, however, of the device is obtained only when the top members are extended without extension of the pedestal; viz., that the top when thus extended is held at a fixed position over the pedestal,—that is, so that it cannot be moved bodily longitudinally to unbalance the table.

I claim:—

1. In an extension table, in combination with the supporting member and table top members mounted thereon for extension; slides connecting the top members for such extension comprising a slide which is free to move longitudinally with respect to both top members; a longitudinal bar carried by such slide; dogs carried by the top members respectively for engaging the longitudinal bar, the latter being provided with means for such engagement at closed position and at intervals of a half filler width outward therefrom; connections for operating one of the dogs extending therefrom toward the margin of the table top and there accessible for manual operation to release the dog.

2. In an extension table, in combination with the table top members, two sets of slides by which they are connected, each

comprising a middle slide which is free to move with respect to the entire top; a bridge connecting said middle slides; a bar mounted on the bridge extending longitudinally of the table top; dogs carried by the top members respectively for engaging the bar, said bar being provided with means for such engagement at closed position of the top members and at intervals of one-half filler width outward therefrom.

3. In an extension table, in combination with the top members movable for extension to admit fillers; slides by which the top members are connected for such extension, comprising a slide which is free to move with respect to both the top members; a longitudinal bar carried by such slide; dogs carried by the top members respectively for engaging the bar, the latter being provided with means for such engagement at intervals in the length corresponding to closed position and positions for admitting one or more fillers, one of the dogs being mounted for movement longitudinally of the top member on which it is carried, and connections from the dog extending toward the margin of the table for so moving it.

4. In an extension table, in combination with the top members movable for extension to admit fillers; slides by which the top members are connected for such extension, comprising a slide which is free to move with respect to both the top members; a longitudinal bar carried by such slide; dogs carried by the top members respectively for engaging the bar, the latter being provided with means for such engagement at intervals in the length corresponding to closed position and positions for admitting one or more fillers, one of the dogs being mounted for movement longitudinally of the top member on which it is carried; connections from the dog extending toward the margin of the table for so moving it, and means for locking the same at the limit of the outward movement.

5. In an extension table, the combination with the table top members, two sets of slides to which they are connected, each set comprising a slide with respect to which the entire top is free to move longitudinally thereof; a bridge connecting said last mentioned slides of the two sets; a bar mounted on the bridge extending longitudinally of the table top; and dogs carried by the top members respectively for engaging the bar, said bar being provided with means for such engagement at intervals of one half filler width outward from closed position of said top members.

6. In an extension table, in combination with a supporting member and table top members mounted thereon for extension, slides which connect the top members for such extension, comprising a slide with re-

5 spect to which the entire top is free to move longitudinally; a longitudinal bar carried by such slide; dogs carried by the top members respectively for engaging the bar, the latter being provided with means for such engagement at intervals of half filler width outward at the closed position, and connections for operating one of the dogs extending therefrom toward the margin of the

table top and accessible for manual operation to release the dog. 10

In testimony whereof, I have hereunto set my hand at Chicago, Illinois, this 17th day of May, 1909.

EMIL TYDEN.

Witnesses:

CHAS. S. BURTON,
J. S. ABBOTT.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."