

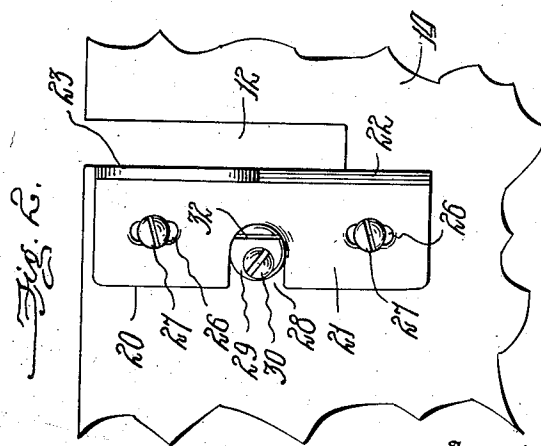
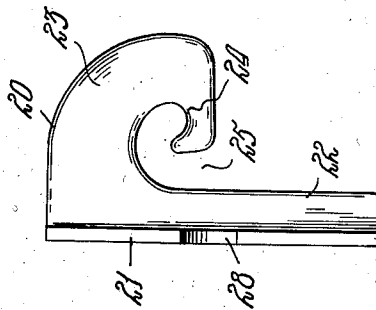
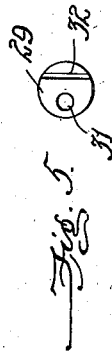
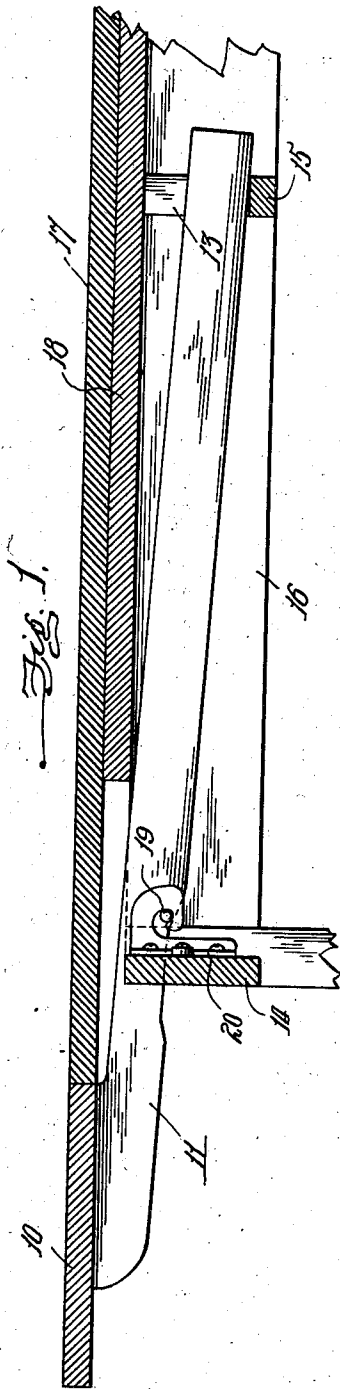
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SUPPORTING HOOK FOR SLIDING LEAF EXTENSION TABLES

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## UNITED STATES PATENT OFFICE

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SUPPORTING HOOK FOR SLIDING LEAF  
EXTENSION TABLESMartin Fox, Chicago, Ill., assignor to The Seng  
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Application September 23, 1933, Serial No. 690,736

6 Claims. (Cl. 311—56)

My invention relates to extension tables of that special type in which the extra leaves are carried at the outer ends of runners or bars slidable in the frame of the table for housing said leaves under the ends of the top, and in which means are provided for supporting the movable parts with the leaves in extended position coplanar with the top, in the present instance embodying certain modifications or improvements in respect to the metal fixture or hook of the leaf supporting means described and claimed in my prior patent, No. 1,875,295, dated August 30, 1932.

Although it is obvious that vertical adjustment of the leaf supporting hook shown in the patent referred to may be effected by the use of slots instead of screw holes this ordinary or well-known expedient is not entirely satisfactory and consequently I have devised improved means for adjustably attaching the hook to the table frame whereby to facilitate alignment of the extension leaves with the top in the assembly of the parts of the extension table or while it is in use, and this is one of the novel features of my present invention.

As a further improvement I have modified the seat or that part of the supporting hook with which the pin on the slide bar engages when the leaf is extended to effect an interlocking engagement which will prevent vertical movement or tilting of the leaves when pressure is exerted thereon.

With these main objects in view my invention contemplates the vertical adjustment of the leaf supporting hook by means of a cam working in a recess therefor in the attaching plate of the hook to cooperate with the attaching screws passing through slots in the attaching plate, and the interlocking engagement of the pin on the slide bar is accomplished by forming a slot in the hook to receive said pin, all as hereinafter fully described and more specifically set forth in the appended claims.

In the drawing forming a part of this specification:—

Figure 1 is a longitudinal sectional view of one end of a sliding leaf extension table showing the application of the improved form of leaf supporting hook.

Fig. 2 is a detail front elevation of the hook attached to the end rail of the table frame.

Fig. 3 is a detail of the hook in side elevation.

Fig. 4 is a detail front elevation.

Fig. 5 is a detail view of the cam for adjusting the hook on the table frame, and

Fig. 6 is a view in elevation showing a modifica-

tion of the hook for locking engagement of the pin on the slide bar.

The leaf supporting hook of my invention is applied to that type of sliding leaf extension tables in which the leaf 10 is secured on the outer end of one or more bars 11 slidable in slots 12 and 13 in the end and center rails 14 and 15 of the supporting frame, the side rails 16 of which latter are cut away as usual below the opposite ends of the top 17 to receive the extension leaves in housed position and the top reinforced by a crosspiece 18 secured between the aforesaid side pieces of the frame. In this general type of extension table the leaves carried by the bars are slid outwardly from housed position below the top and when raised on a line with said top are supported by a member on the slide bars engaging a companion member on the supporting frame of the table, as for instance pin 19 on the slide bar and metal fixture or hook 20, the latter being attached to the end rail of the table at one side of the slot 12 therein.

As shown in my prior patent and in Figs. 1 and 3 of the accompanying drawing the metal leaf-supporting fixture with which the pin on the slide bar engages consists generally of an attaching plate 21 from one side of which projects a hook-like supporting member having a vertical rib or flange 22 and a curved portion 23 at the upper end of said flange, the curved portion extending inwardly towards the flange at its lower end to form a pin receiving seat 24 with an entrance slot 25 between the bill of the hook and outer edge of the vertical flange. This metal fixture or supporting hook when attached to the end rail of the table frame at one side of the slot 12 receives the pin 19 on the slide bar 11 supporting the leaf 10 to align the leaf with the top 17, as shown in Fig. 1, and it will be understood that in housing said leaf below the outer end of the top upon the upper edges of the side and end rails it is necessary only to slightly lift the leaf and move it outwardly and downwardly for disengagement of the pin from the hook after which the leaf and its supporting bar may be slid inwardly. It will be further understood that the location of the metal fixture or supporting hook on the end rail is such as to position the extension leaf on a line with the table top when the pin on the slide bar is in engagement with said hook, and consequently it may become necessary to adjust the supporting hook after the parts of the table have been assembled or while the table is in use. Though this adjustment may be accomplished by merely providing the attaching

plate of the hook with slots through which the attaching screws pass I have devised an improved means of adjustment, forming one of the novel features of the present application.

5 In the present instance the attaching plate of the hook in addition to the slots 26 receiving the screws 27 is provided centrally with a slot or elongated recess 28 extending inwardly from the outer edge thereof, and within this slot or recess 10 is placed a cam 29 secured to the side rail by screw 30, whereby turning of said cam after the screws 27, 27 are loosened will raise or lower the fixture as desired. Any form of cam may be employed, the one shown being a disk closely fitting within 15 the recess 28 and having the screw hole 31 forming the fulcrum of the cam at one side of the center thereof, and for conveniently turning said cam by means of a screwdriver it is provided with a transverse slot or rectangular groove 32. The 20 operation of the cam is obvious, for in the aligning of the extension leaf either in assembling the table or should said leaf get out of alignment during the use of the table it may be readily adjusted by manipulation of the cam and tightening 25 the holding screws.

To overcome tendency of the leaf to tilt when extended on a line with the top I provide the supporting hook with a retaining slot 34 extending from the seat 33, as shown in the modification 30 Fig. 6, otherwise the hook is identical to what has been already described; that is to say, the attaching plate is provided with the recess 28 to receive the adjusting cam and with slots 26 to receive the holding screws 27, and in this instance 35 also the fixture or hook is provided with rib or flange 22 against which the pin on the slide bar strikes and is guided thereby into the entrance slot when the leaf is moved from housed to extended position. By providing the retaining slot as a 40 part of the seat for the pin on the slide bar the said slot will act as a lock to hold the movable parts of the table against vertical movement when the leaf is in extended position, and of course in this form of hook the pin 19 is properly 45 located on the slide bar to permit positioning said pin in the slot when the leaf is against the table top. It will be noted that in this modified form of metal leaf-supporting hook to receive the pin on the slide bar for supporting the leaf 50 against vertical movement, said hook is shaped to form the curved entrance slot terminating in a seat for the pin and the slot extended horizontally outward, so that when the pin is moved into this horizontal slot it will be confined and held 55 against vertical movement in either direction. According to the original form of my hook, shown in Fig. 3, the curved entrance slot merely supported the extension leaf in place against downward and outward movement but did not prevent upward tilting of the leaf in extended position 60 as now provided for by the extension of the curved entrance slot to lock the pin and its leaf supporting bar; it being understood that the slot extension in which the pin is locked is only a little wider than the diameter of said pin.

65 I claim:

1. A metal fixture or hook for slide leaf extension tables comprising an attaching plate having a supporting member projecting outwardly there-

from to cooperate with a member on the table leaf slide, slots in the attaching plate to receive holding screws, and a slot or elongated recess in said attaching plate; together with a cam fitting within the recess and engaging the diametrically 5 opposite walls thereof to provide for vertically adjusting the fixture on the frame of the table preliminary to tightening the holding screws.

2. A metal fixture or hook for slide leaf extension tables comprising an attaching plate 10 having a supporting member projecting outwardly therefrom to cooperate with a member on the table leaf slide; slots in the attaching plate to receive holding screws, and a recess in said attaching plate; together with a cam in the form 15 of a plain disk fitting within the recess and engaging the walls thereof to provide for adjusting the fixture on the frame of the table preliminary to tightening the holding screws, and means associated with the cam for turning the same. 20

3. A metal fixture or hook for slide leaf extension tables comprising an attaching plate 25 having a supporting member projecting outwardly therefrom to cooperate with a member on the table leaf slide, slots in the attaching plate to receive holding screws, and a recess in said attaching plate; together with a cam fitting 30 within the recess and engaging the walls thereof to provide for adjusting the fixture on the frame of the table, said cam being in the form of a disk with a screw hole at one side of the center thereof and having a transverse groove to receive a screwdriver for turning the same. 35

4. A metal fixture or hook for slide leaf extension tables comprising an attaching plate, and a 40 supporting member projecting outwardly from the attaching plate and shaped to provide a curved entrance slot extended horizontally to receive a cooperating member on the table leaf 45 slide, the outwardly extended portion of the slot being of slightly greater width than the diameter of the member on the table leaf slide to lock it against vertical movement in either direction. 50

5. A metal fixture or hook for slide leaf extension tables comprising an attaching plate, a 55 supporting member projecting outwardly from the attaching plate and shaped to provide a curved entrance slot extended horizontally outward to receive a cooperating member on the table leaf 60 slide, the outwardly extended portion of the slot being of slightly greater width than the diameter of the member on the table leaf slide to lock it against vertical movement in either direction, and means in association with the attaching plate 65 for adjusting the fixture on the frame of the table.

6. A metal fixture or hook for slide leaf extension tables comprising an attaching plate, a 60 supporting member projecting outwardly from the attaching plate and shaped to provide a curved entrance slot extended horizontally outward to receive a co-operating member on the table leaf 65 slide and lock it against vertical movement in either direction, and means for adjusting the fixture on the frame of the table, said means consisting of a cam fitting within a recess in the attaching plate of the fixture, and slots in said attaching plates to receive holding screws.

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