

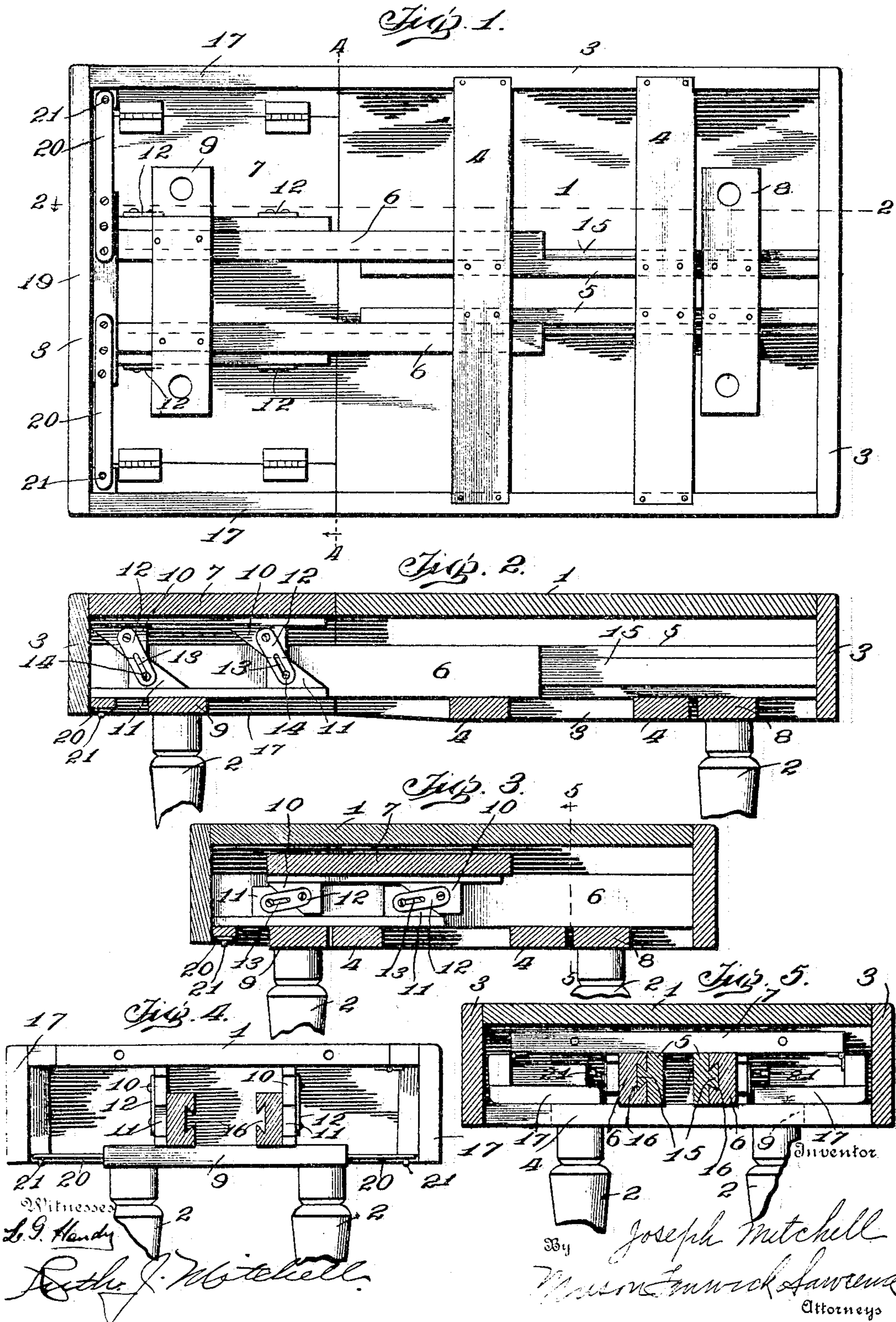
No. 775,377.

PATENTED NOV. 22, 1904.

J. MITCHELL.
EXTENSION TABLE.

APPLICATION FILED JUNE 21, 1902.

NO MODEL.



UNITED STATES PATENT OFFICE.

JOSEPH MITCHELL, OF BELLEVUE, OHIO.

EXTENSION-TABLE.

SPECIFICATION forming part of Letters Patent No. 775,377, dated November 22, 1904.

Application filed June 21, 1902. Serial No. 112,670. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH MITCHELL, a citizen of the United States, residing at Bellevue, in the county of Huron and State of Ohio, have invented certain new and useful Improvements in Extension-Tables; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in extension-tables, and relates to that class of extension-tables in which the movable leaves are capable of depression below the surface of the table, so that they may be pushed beneath the same when the table is in a contracted condition.

It consists in an extension-table provided with movable leaves, slide-bars carrying the same, cam or wedge surfaces upon the slide-bars, and cam or wedge surfaces formed upon the movable leaves, so that the said leaves may be raised and supported in position at the same level as the remainder of the table when the table is to be enlarged.

It also consists in certain other novel constructions, combinations, and arrangements of parts, as will be hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a bottom plan view of an extension-table embodying the present invention. Fig. 2 is a vertical longitudinal section through the same, showing the wedge-blocks or cam-surfaces for supporting the movable section, the table being in its extended position, taken on line 2 2 of Fig. 1. Fig. 3 is a similar view with the table in its contracted or closed condition. Fig. 4 is a detail cross-section through the table, taken along the edge of the movable leaf on line 4 4 of Fig. 1. Fig. 5 is a vertical cross-section through said table in its folded condition, taken upon the line 5 5 of Fig. 3.

The principal portion of the extension-table may be constructed in any usual and well-known manner, being formed with a top portion 1, mounted upon suitable supporting-legs 2. The table is preferably formed with downwardly-extending side portions, as 3, which inclose working parts beneath the top

of the table. Upon the under side of the table are cross bars or pieces 4, which are secured at their ends to the sides 3. Between these pieces 4 and the top 1 of the table are secured guide pieces or bars 5, which are firmly held in position by the said pieces 4 and the top 1. Engaging these guide-bars 4 are slide-bars 6, which carry the movable piece 7 of the table-top. Supporting cleats or bars 8 and 9 are secured to the guide-bars 5 and the slide-bars 6, respectively, and to these supporting-pieces 8 and 9 are secured the legs 2 of the table.

The movable top section 7 of the table is not rigidly secured to the slide-bars 6, but is provided upon its under side with blocks or cams 10, having beveled faces which ride upon the beveled faces of corresponding cams or blocks 11, which are rigidly secured to the sides of the said slide-bars 6. Links or pivoted bars 12 connect the blocks 10 and 11, so that the movable section 7 cannot be disconnected from the slide 6. The said links, however, accommodate themselves to the movements of the said movable section in folding or extending the table and are provided with linked slots 13 for this purpose. The linked slots engage pins 14 on one set of blocks—say upon the blocks 11—as shown in Fig. 2 of the drawings. Of course it will be apparent that the arrangement of the links 12 may be reversed, the slotted ends thereof being secured to the blocks 10 thereof, all within the spirit of the present invention.

The blocks 10 are formed with horizontal surfaces at their lower ends which coincide and rest upon corresponding horizontal surfaces upon the upper ends of the lower blocks 11, so that when the table is in its extended position and the movable leaf or top section 7 has been raised to the level of the table it will be positively supported upon the said blocks 11. When the table is to be collapsed or folded, the end of the table carrying the slide-bars 6 is pulled out slightly, when the movable section 7 can be pushed inwardly and the inclined faces of the blocks 10 will slide down the inclined faces of the blocks 11, thus dropping the removable leaf low enough to be slid underneath the main part of the table, as

seen in Fig. 3. The slots 13 in the said links 12 are made of a proper length to permit of the different adjusted positions which may be assumed by the movable leaf, limiting the movement in both directions. The slide-bars 6 are preferably connected with the guide-bars 5 by a dovetail connection, a rib 15 being formed upon each of the guide-bars 5 and engaging correspondingly-shaped grooves 16 on the slide-bars 6.

In order to completely fill the space in the table between the extension end and the main body portion thereof, the movable leaf or top section 7 is provided with hinged sections 17, the said hinged sections being so hinged that they may be opened and fitted against the ends of the table side 3, so as to continue the sides of the said table and permit of no break therein. The hinged sections 17 are held in their open or raised position by means of springs 20, fastened to the movable end 19 of the table, each of said springs being perforated at its outer end, so as to slip over and engage a pin 21, carried by the said hinged sections 17. These springs 20 will automatically engage the pins 21 when the side sections 17 are unfolded. When the table is to be folded or collapsed, the springs 20 are disengaged from the pins 21, when the said side sections 17 may be folded inwardly beneath the movable section 7 of the table, and the said section 7 can be pushed down the inclines of the blocks 11, and the extensible end of the table may be also forced inwardly, as shown in Figs. 3 and 5.

Since the supporting-bars 8 and 9 are attached, respectively, to the guide-bars 5 and the slide-bars 6, the table-legs will always be maintained at the same distance from the ends and corners of the table, no matter what the adjusted position of the parts.

The table may be provided with more than one folding section, since a second set of blocks 11 may be carried by the slide-bars 6, and a second leaf can be movably connected there-

with, as above described with respect to the leaf 7, all within the spirit and intention of the present invention. Such removable section or sections may also be employed at each or both ends of the table, the structure being merely duplicated at each end of the table and operating as above described.

It will be evident that the details of construction may be slightly varied without departing from the invention.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In an extension-table a central top section an extension-frame adapted to slide beneath said top section and to extend beyond the same, blocks rigidly attached to said extension-frame, the upper faces of each of said blocks comprising an inclined surface which leads to a horizontal surface, an extension-leaf, blocks rigidly attached to said leaf and adapted to engage said first-named blocks to support said leaf in a raised and a lowered position, the lower faces of each of said blocks comprising an inclined surface which leads to a horizontal surface, the inclined surfaces of said blocks being in reverse direction to the inclined surfaces of the first-named blocks, whereby the inclined surfaces of the blocks will be in contact when the leaf is in the lowered position and the horizontal surfaces will be in contact when the leaf is in the raised position, a link pivoted to one of each pair of engaging blocks, and having a longitudinal closed slot therein, a pin rigidly fixed to the other block slidingly and pivotally engaging said slot, whereby the movement of the blocks with respect to each other is limited.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

JOSEPH MITCHELL.

Witnesses:

J. P. VICKERY,
E. G. SMITH.