

No. 667,387.

Patented Feb. 5, 1901.

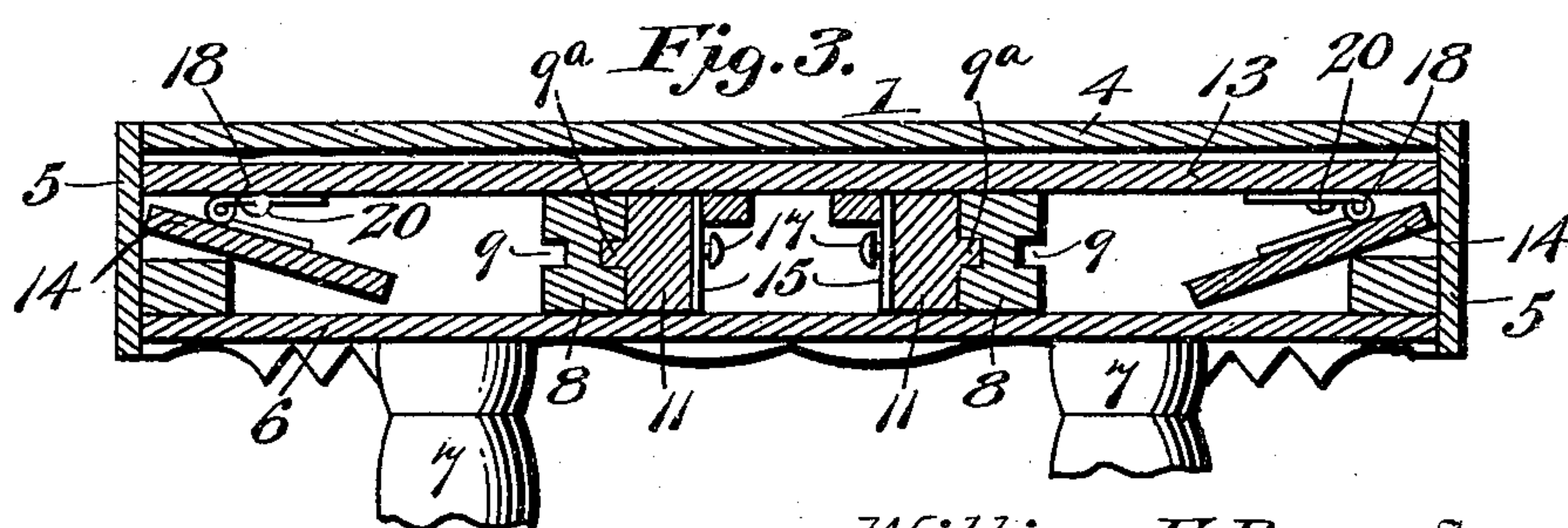
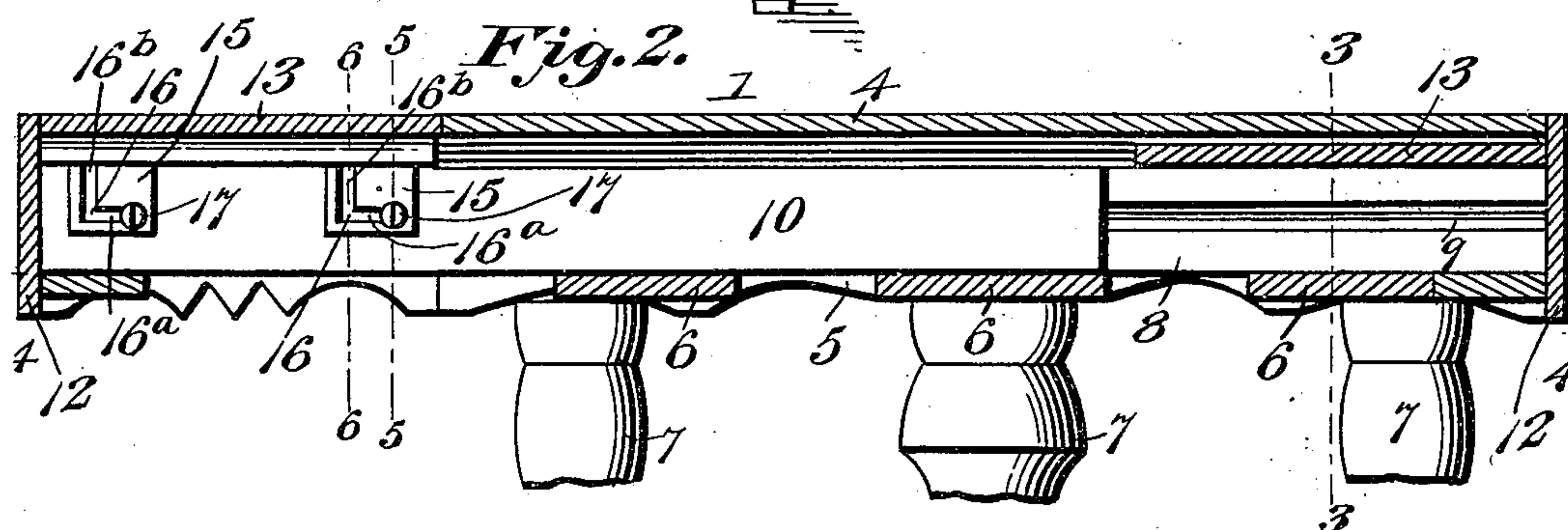
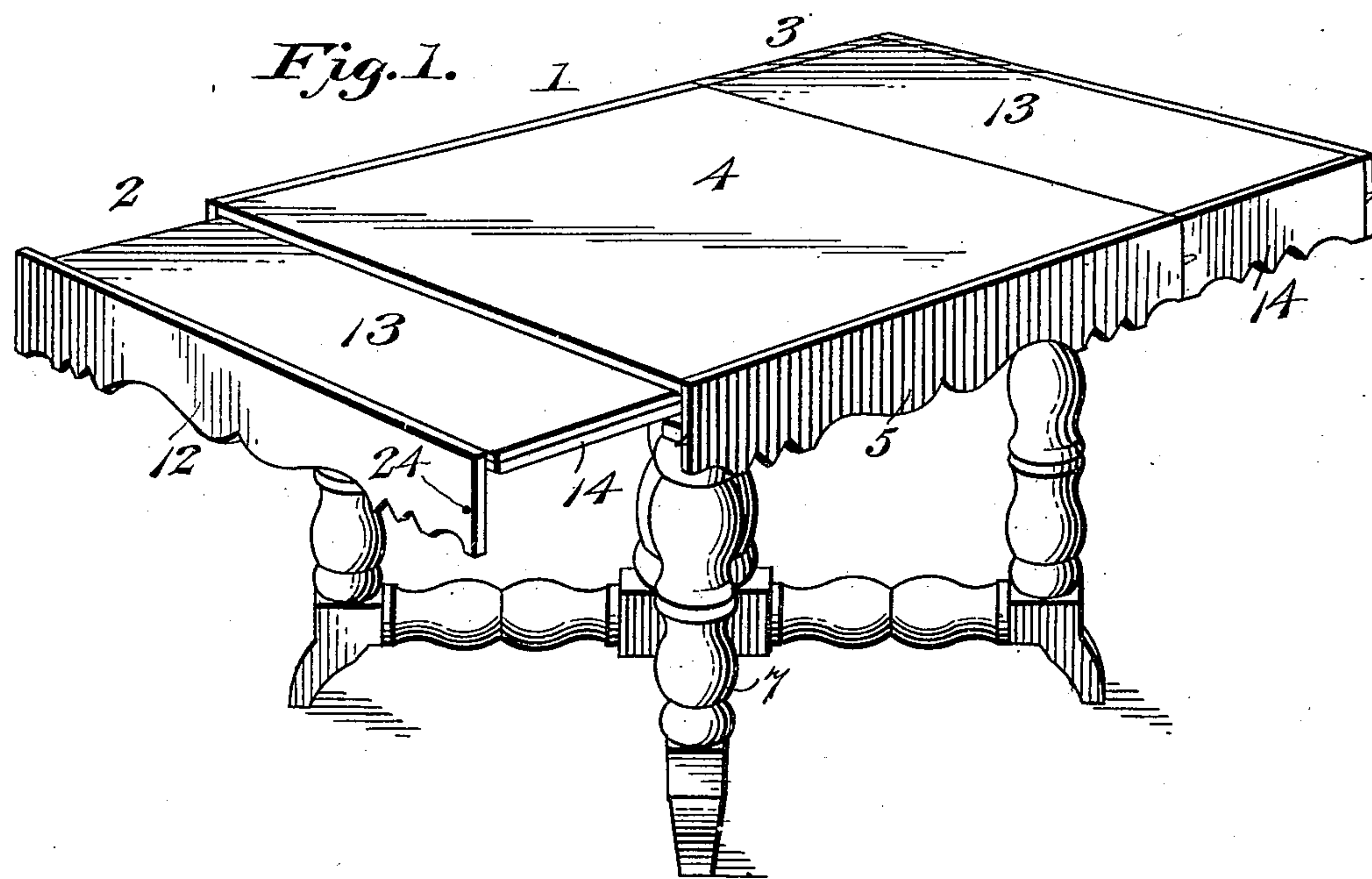
W. E. DEPP.

EXTENSION TABLE.

(Application filed Sept. 22, 1900.)

(No Model.)

2 Sheets—Sheet 1.



William E. Depp Inventor.

By

E. J. S. J. S.

Attorney

Witnesses
Edmund W. McKee
Louis E. J. J.

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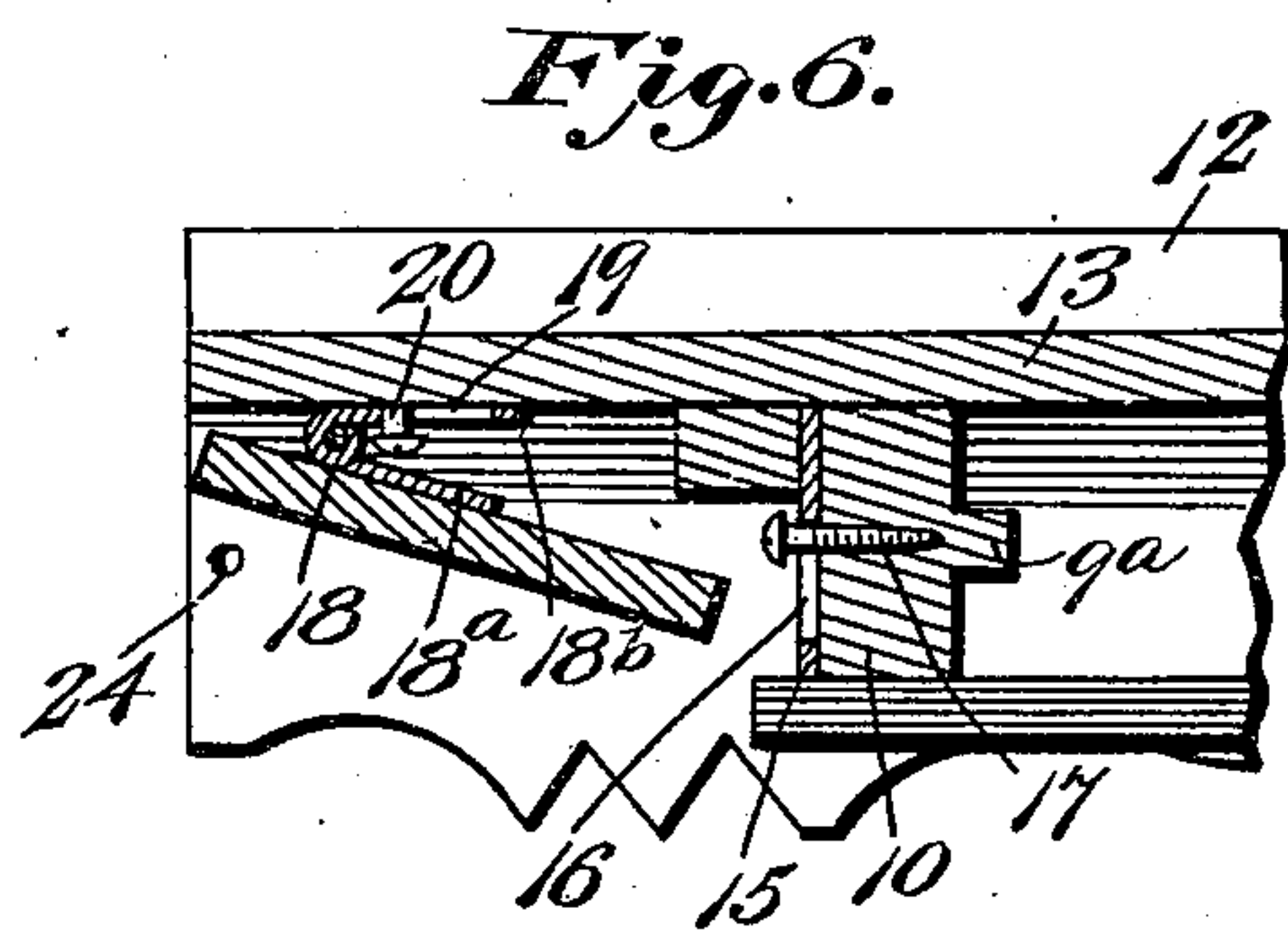
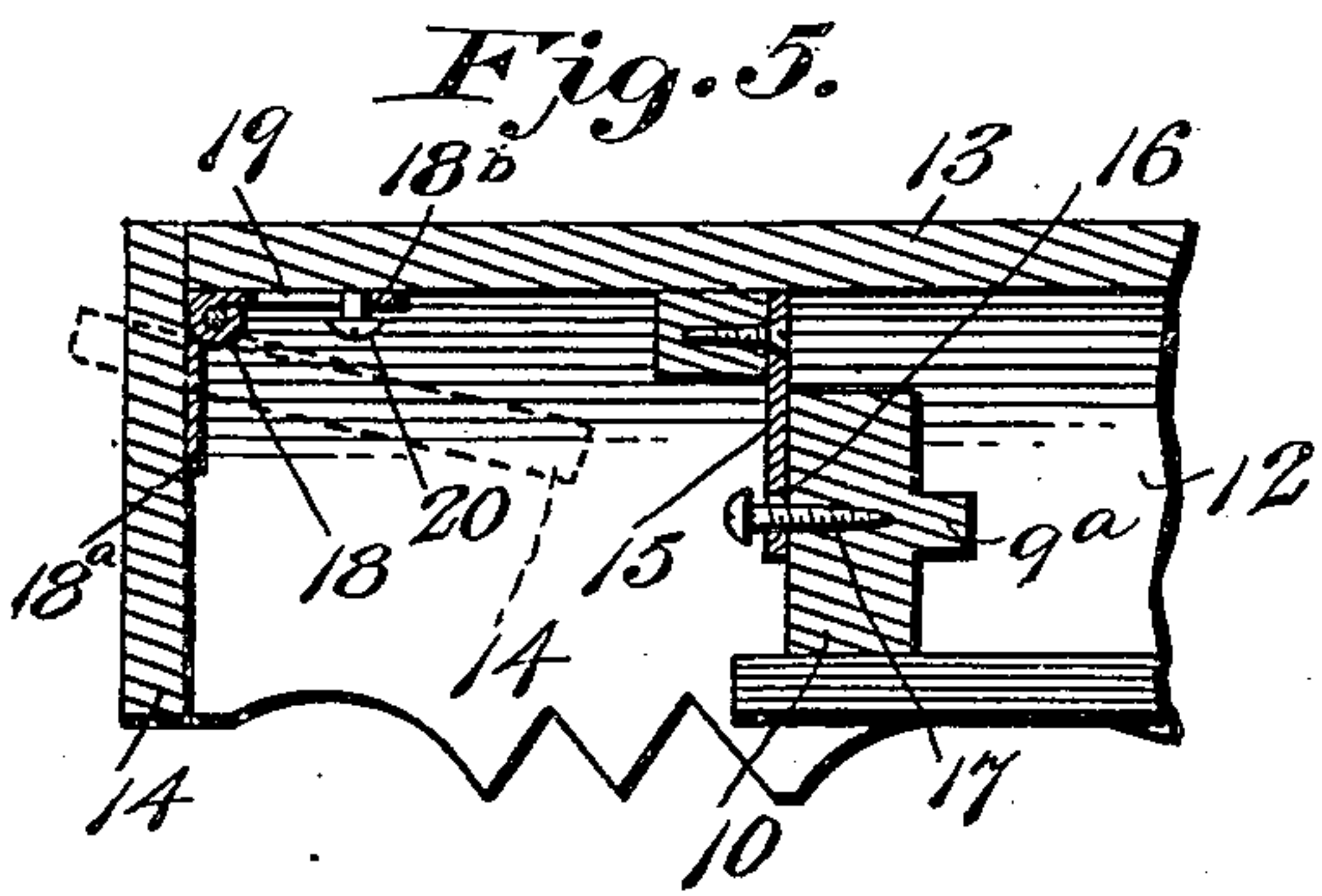
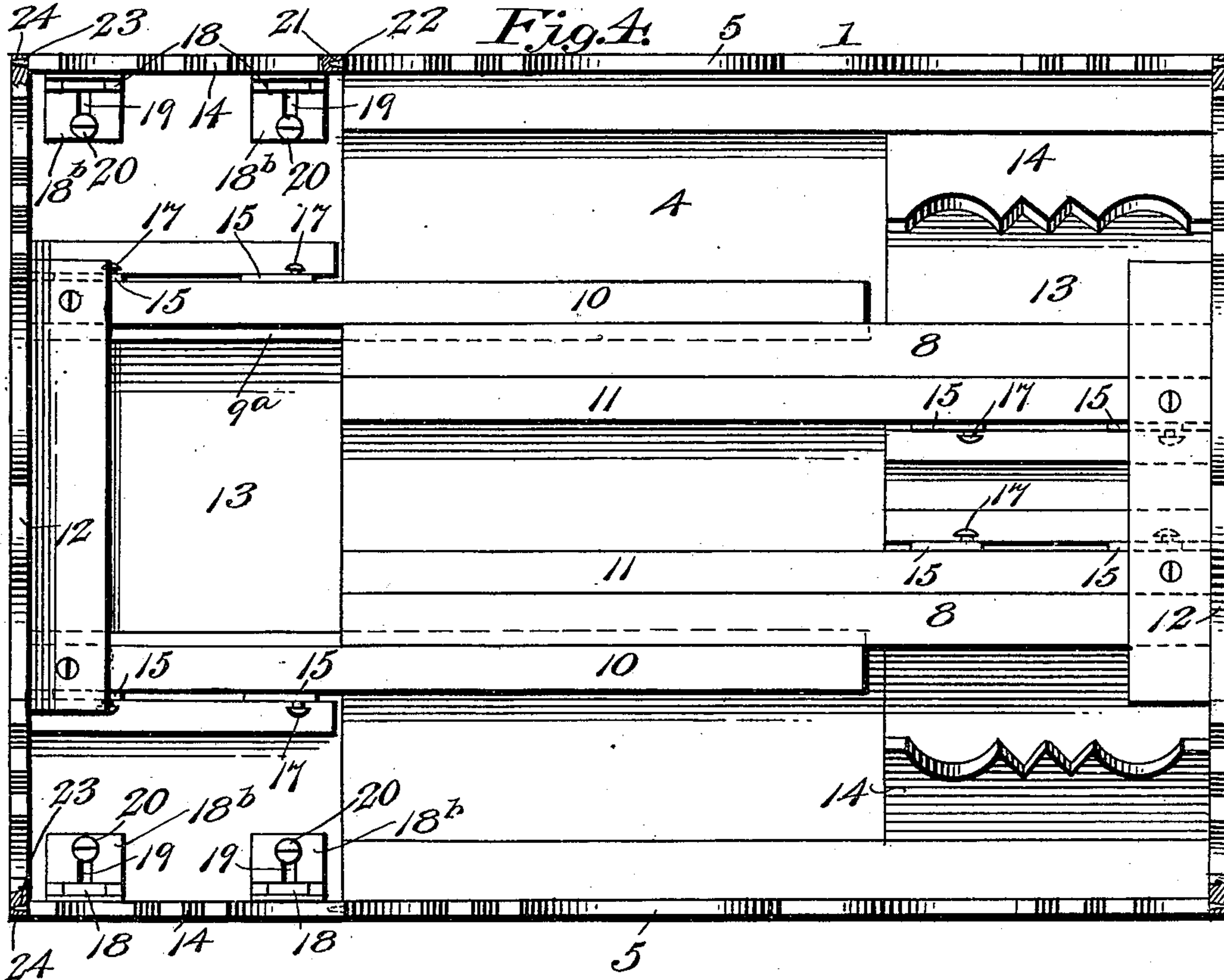
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W. E. DEPP.
EXTENSION TABLE.

(Application filed Sept. 22, 1900.)

(No Model.)

2 Sheets—Sheet 2.



William E. Depp Inventor

By

E. G. Siggers

Attorney

Witnesses
Edwin M. Kee
Louis C. Gulik

UNITED STATES PATENT OFFICE.

WILLIAM E. DEPP, OF BROOKVILLE, PENNSYLVANIA.

EXTENSION-TABLE.

SPECIFICATION forming part of Letters Patent No. 667,387, dated February 5, 1901.

Application filed September 22, 1900. Serial No. 30,833. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM E. DEPP, a citizen of the United States, residing at Brookville, in the county of Jefferson and State of Pennsylvania, have invented a new and useful Extension-Table, of which the following is a specification.

My present invention relates to improvements in extension-tables of that class which comprehend the table proper and collapsible extensions designed to be collapsed and slid into the table-body or withdrawn therefrom and reorganized for the purpose of constituting extensions the upper and side surfaces of which are flush with the upper and side surfaces of the table.

The object of the invention is to provide a simple and durable construction for rendering the extensions readily collapsible or expandable to facilitate their storage within the table-body or their accurate positioning when it is desired to extend the table.

To the accomplishment of this object and others subordinate thereto, as will hereinafter more fully appear, the invention is comprehended in the preferred form thereof illustrated in the accompanying drawings and succinctly defined in the appended claims.

In said drawings, Figure 1 is a perspective of my table, showing one of the extensions positioned with its surfaces flush with the table-surfaces, the other extension being collapsed and ready for further withdrawal from or inclosure within the table. Fig. 2 is a central longitudinal section through the table, showing one of the extensions inclosed therein and the other drawn out as in use. Fig. 3 is a transverse section on the line 3 3 of Fig. 2. Fig. 4 is a bottom plan view of the table with the parts in the positions shown in Fig. 2. Fig. 5 is a fragmentary sectional view on the line 5 5 of Fig. 2, and Fig. 6 is a similar view on the line 6 6 of Fig. 2.

Referring to the numerals of reference employed to designate corresponding parts in the several views, 1 indicates a table, and 2 and 3 the table extensions or extensible sections designed, in a manner to be described, to be slid into the table or to be withdrawn therefrom when it is desired to extend the supporting-surface of the table by the addition of one or both of the extensions. The

table 1 comprises a body portion composed of a horizontal top 4, permanent side rails 5, depending from the opposite edges of the top, a series of base-bars 6, extending transversely between the lower edges of the side rails 5, and a suitable support—as, for instance, a leg-frame 7—comprising a number of connected legs, upon the upper ends of which the base-bars 6 are retained in any suitable manner. The table as thus constructed comprehends a suitably-supported open-ended box-like receptacle within which the extensions 2 and 3 are designed to be stored when not in use. For the purpose of properly guiding the movements of the extensions or extensible sections 2 and 3 the table is provided with a pair of parallel slide-rails 8, having longitudinal grooves 9 in their side faces for the reception of correspondingly-formed tongues 9^a, formed upon the faces of the slides 10 and 11, extending in opposite directions from the extensions.

As shown more clearly in Fig. 4 of the drawings, each of the extensions is provided with a pair of slides, the slides 10 comprising supports for the extensions 2 and engaging the outer faces of the guide-rails 8, and the guides 11 serving a like purpose for the extension 3 and engaging the inner faces of the rails. By this arrangement it will be seen that the slides are arranged out of coincidence to permit them to move independently in order that either one or both of the extensions may be employed, as desired, for the purpose of extending the supporting-surface of the table.

In addition to the slides each of the extensions comprehends an end rail 12, from which the slides extend, an extension leaf or top 13, and the folding side rails or side-rail extensions 14. The end and side rails of the extensions conform in design and transverse dimensions to those characteristics of the permanent side rails of the table, so that when the extensions are drawn out the leaves 13 will constitute extensions of the table-top, and the side and end rails 14 and 12 will constitute continuations of the side rails of the table to impart a finished appearance to the latter.

Obviously the supporting-surfaces of the table and the extensions and the outer surfaces of the side rails and their extensions

must lie flush, which necessitates the abutting of their contiguous ends, and it therefore follows that some special provision for effecting the partial collapse of the extensions must be made in order that they may be slid into the box-like body of the table when the extended form of the table is not desired. It is in this provision that the most important features of my invention are embodied.

By reference to Figs. 2, 3, 5, and 6 of the drawings it will be noted that the upper edges of the slides are located a considerable distance below the upper edges of the end rails 12, which latter are located in the horizontal plane of the supporting-surface of the table. The purpose of this is to permit the end rails to completely close the ends of the table when the extensions are moved in and to provide for dropping or depressing the leaves 13 to a horizontal plane below the plane of the table-top 4 to permit them to slide under the top, as shown in Figs. 1 and 2 of the drawings. It is essential, however, that these leaves be securely retained in their elevated positions when the extensions are used; but it is quite as essential that they may be readily depressed or dropped when necessary. To obtain these results, I provide each leaf 13 with a pair of depending leaf-supporting plates 15, opposed to the outer faces of each of the slides 10 or the inner faces of the slides 11, as the case may be. Each of these supporting-plates is provided with an angular slot 16, through which extends a projection, pin, or stud 17 upon the side wall of the adjacent slide. The horizontal branches 16^a of these slots are located adjacent to the lower ends of the plates, and their vertical branches 16^b are located adjacent to the outer edges of the plates, as shown more clearly in Fig. 2 of the drawings.

It will now be seen that if the pin or projection 17 is located in the horizontal branch 16^a of the slot the leaf will be supported in its elevated position with its upper surface flush with the supporting-surface of the table. If, however, the leaf is shifted to present the vertical branch 16^b of the slot above the pin, the leaf will drop upon the slides and will be located in a plane below the plane of the table-top 4 to permit the extension to slide into the table, as shown at the right of Figs. 2 and 4. Similar provision for the collapse or folding of the side rails 14 of the extensions must be made; but as the opposite ends of the leaves 13 abut against the inner faces of the permanent side rails 5 it will appear that the movable side rails cannot be shifted laterally out of the plane of the rails 5, but must be turned under the leaves 13 and slid inwardly to prevent their protrusion beyond the ends thereof. The peculiar form of mounting which I employ to accomplish this end is best shown in Figs. 4, 5, and 6 of the drawings, wherein it will be seen that each of the movable side rails 14 is connected to its leaf 13 by one or more leaf-hinges 18, each having a

leaf 18^a permanently connected to the inner face of the side rail and a leaf 18^b shiftably mounted upon the under face of the extension-leaf 13 by providing the hinge-leaf 18^b with an elongated opening or slot 19, engaged by a stud 20, extending from the extension-leaf 13.

The extension side rails 14 are not only employed to impart a finished appearance to the table, but are intended to constitute additional securing or supporting means for holding the leaves 13 in their elevated positions. I therefore provide each rail 14 with a recess or socket 21 in its inner end edge for the reception of a pin 22, projecting from the adjacent end of one of the permanent side rails 4, and at the opposite end of the rail 14 I provide a pin 23, designed to engage a recess or socket 24 in the face of the adjacent end rail 12, this particular relation of the pins and sockets being desirable, as it permits the pins 22, carried by the permanent side rails, to enter the sockets 24 of the end rails when the extensions are slid into the table.

The manipulation of the table constructed in accordance with my invention is as follows: Assuming the table to be organized as illustrated in Fig. 1 of the drawings, and that it is desired to discontinue the use of the extensions, the end rail 12 of the extension 3 is drawn back to effect the disengagement of the pins 22 from the sockets 21. The leaf 13 is then moved away from the end rail for the purpose of withdrawing the pins 23 from the sockets 24 and to cause the vertical branches 16^b of the slots 16 to be presented above the pins 17. The result of this reorganization will be to permit the leaf to drop upon the upper faces of the slides and in a plane below that of the top 4, as shown in Figs. 3 and 6 of the drawings. The end rails 14 of the extension are now swung under the leaf 13, as shown in dotted lines in Fig. 5, and their projecting edges are moved within the ends of the leaf by sliding the rails under the latter to the positions indicated in Fig. 6 of the drawings, after which the extension may be readily slid into the table, as shown at the right of Figs. 2 and 4. When it is desired to extend the table, it is simply necessary to draw out the slide and effect the reversal of the manipulation of parts just described.

From the foregoing it will appear that I have produced a simple, durable, and easily-manipulated extension-table embodying a construction adapted for the accomplishment of the several ends hereinbefore mentioned; but while the present embodiment of the invention is considered at this time to be preferable I wish to reserve the right to effect such changes, modifications, and variations as may be comprehended by the invention in its broadest aspect.

What I claim is—

1. The combination with a table comprising a top and permanent side rails, of an extension comprising a slide, an extension-leaf

supported by the slide and capable of assuming positions in different horizontal planes, leaf-hinges slidably mounted upon the under side of the leaf adjacent to its ends, and fold-
5 able side-rail extensions connected to the leaf by said hinges and designed to be swung to a position below the leaf and to be slid bodily thereunder.

2. The combination with a table comprising a top, pendent side rails permanently connected to the top, and slide-rails located below the top, of an extension comprising an end rail, slides extending therefrom and slidably engaging the slide-rail of the table, an
15 extension-leaf supported by the slide and provided with pendent plates having angular slots, pins extending from the slides through the slots of said plates to permit the leaf to be supported in the plane of the table-top or
20 in a plane therebelow, a pair of foldable side-rail extensions located at the opposite ends of the extension-leaf, hinges connecting said rail extensions to the leaf, each of said hinges being provided with a longitudinal slot, a pin
25 projecting from the under face of the leaf and engaging the slot, means for effecting an interlocking engagement between the rail extensions and the permanent side rails, and means for effecting a similar engagement be-
30 tween the rail extensions and the end rail.

3. The combination with a table comprising a top and side rails, of an extension comprising a slide, an extension-leaf supported

by the slide and capable of assuming positions in different horizontal planes, a pair of
35 foldable side-rail extensions located at the opposite ends of the extension-leaf, hinges connecting said rail extensions to the leaf, each of said hinges being provided with a longitudinal slot, and a pin projecting from the
40 leaf and engaging the slot, whereby the side-rail extensions may be swung to a position below the leaf and slid bodily thereunder.

4. The combination with a table comprising a top and side rails, of an extension comprising a slide, an end rail secured to the slide
45 and an extension-leaf capable of assuming positions in different horizontal planes, a pair of foldable side-rail extensions located at opposite sides of the extension-leaf, leaf-hinges
50 slidably mounted on said leaf and hingedly supporting the side-rail extensions to permit the latter to be swung below the leaf and slid thereunder, means for effecting an interlocking engagement between the rail extensions
55 and the rails, and means for effecting a similar engagement between the rail extensions and the end rail.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in
60 the presence of two witnesses.

WILLIAM E. DEPP.

Witnesses:

H. H. BROSIUS,
L. G. BROSIUS.