

No. 896,535.

PATENTED AUG. 18, 1908.

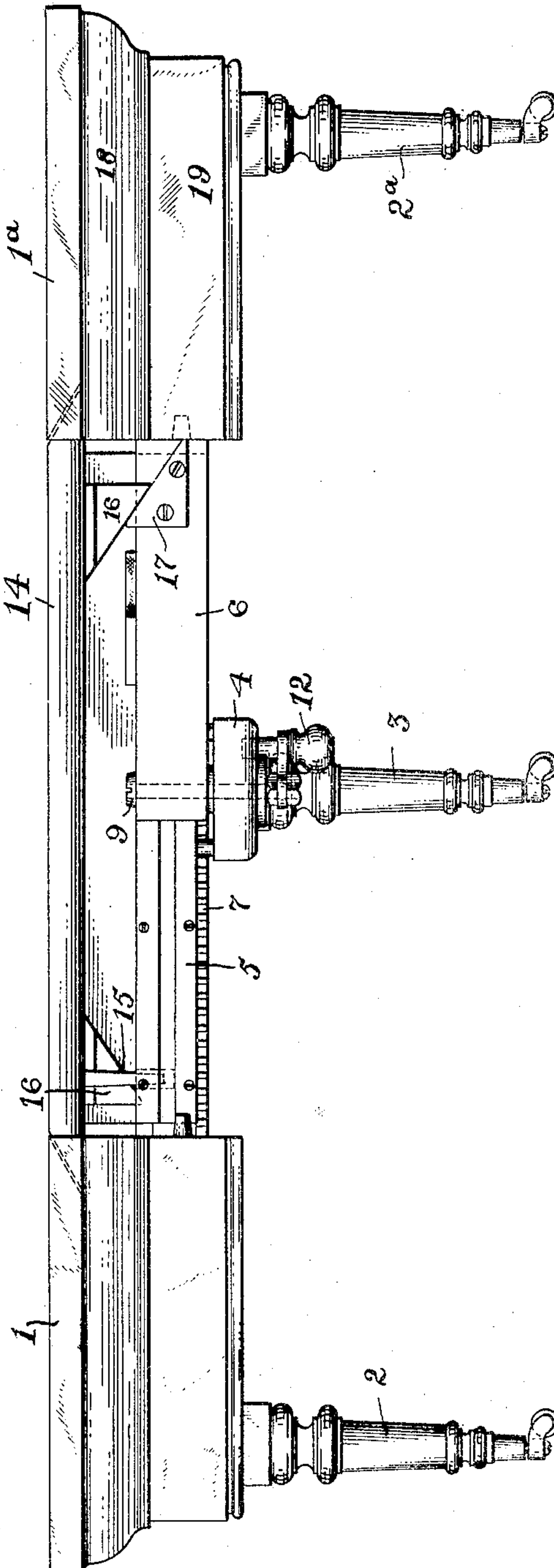
J. HAUT.

EXTENSION TABLE.

APPLICATION FILED SEPT. 30, 1907.

3 SHEETS—SHEET 1.

Fig. 1.



Attest:

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By

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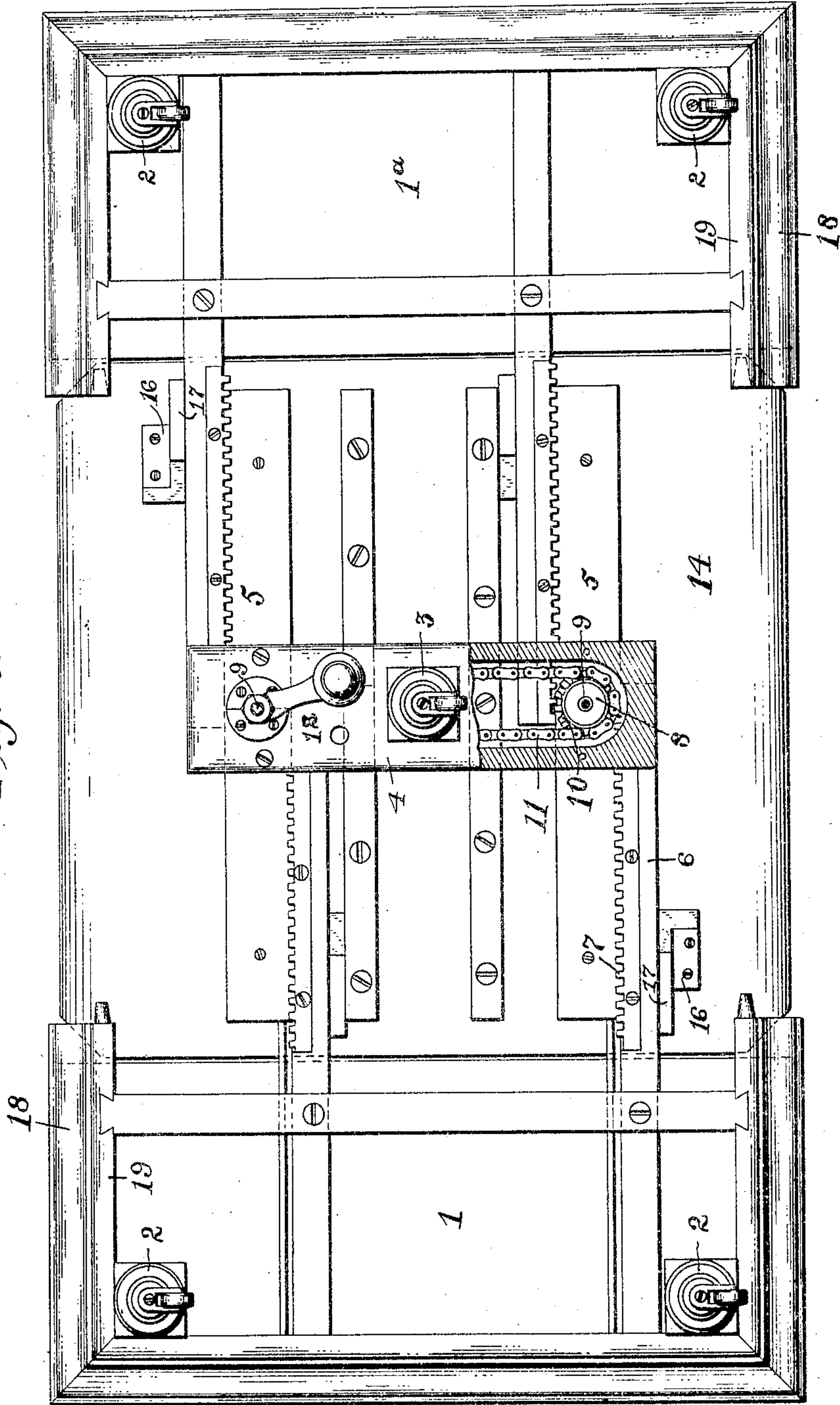
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EXTENSION TABLE.

APPLICATION FILED SEPT. 30, 1907.

3 SHEETS—SHEET 2.

Fig. 2.



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EXTENSION TABLE.

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3 SHEETS—SHEET 3.

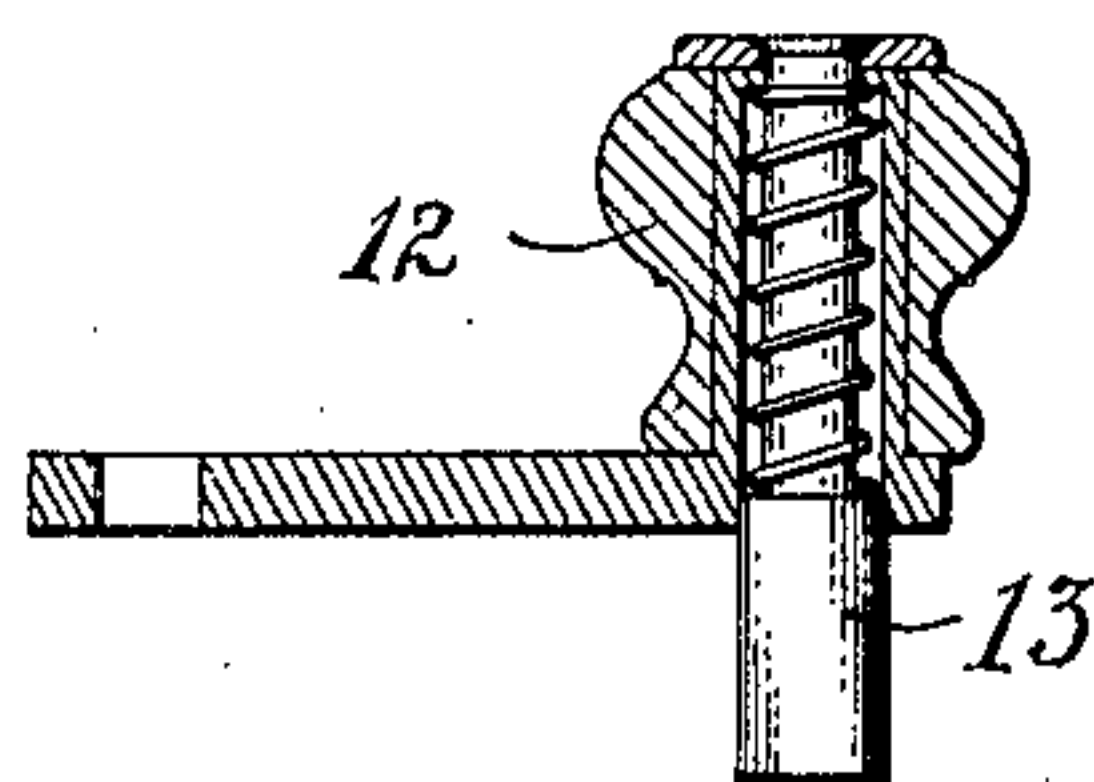
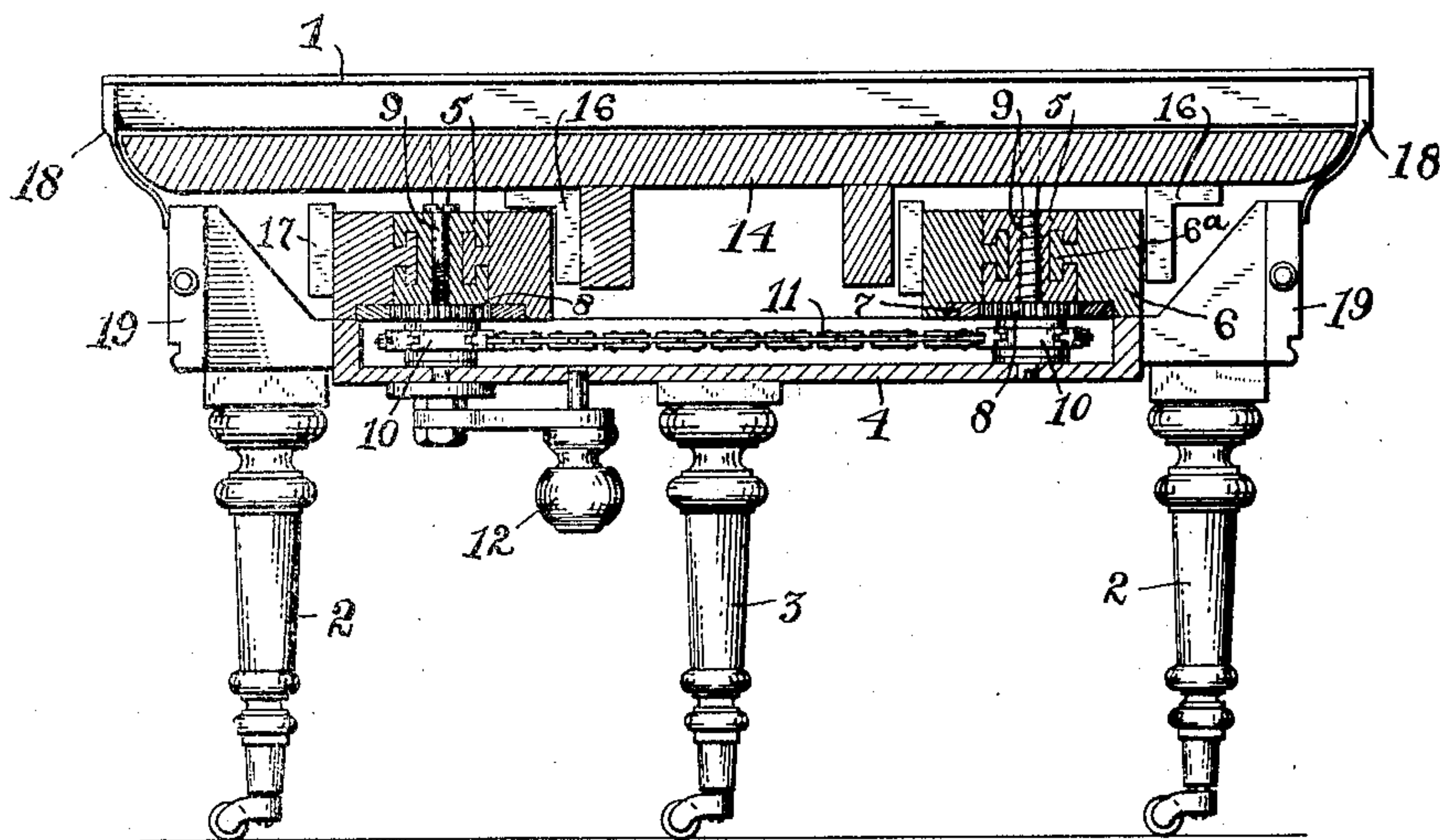


Fig. 4.

Fig. 3.



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UNITED STATES PATENT OFFICE.

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EXTENSION-TABLE.

No. 896,535.

Specification of Letters Patent.

Patented Aug. 18, 1908.

Application filed September 30, 1907. Serial No. 395,135.

To all whom it may concern:

Be it known that I, JACOB HAUT, a citizen of the United States, residing at 1636 Lexington avenue, New York city, New York, have invented new and useful Improvements in Extension-Tables, of which the following is a specification.

My invention relates to improvements in extension tables of that class in which the end portions move outwardly leaving a space to be filled by an intermediate section or sections.

Among the objects of the invention are to provide a construction in which the space formed by the outward movement of the end sections or portions shall be automatically filled by a central section which is normally carried by and concealed within the end sections.

Other objects are to provide such a central section as will when raised lie flush with and be practically equal in extent or area to the width of the end sections, to provide for a simple, effective and easily operable manipulating device, and also to provide means for holding the sections or parts locked in either their extended or closed positions.

With these and other objects in view the invention includes the particular features of construction and arrangement and combination of parts hereinafter described and particularly set forth in the appended claims.

A table constructed in accordance with my invention is illustrated in the accompanying drawings, in which, —

Figure 1 is a side elevation. Fig. 2 is a bottom plan view. Fig. 3 is a central transverse section. Fig. 4 is a detail view.

Referring by reference characters to this drawing, the numerals 1 and 1^a designate the end sections of the table which are mounted in the usual or any desired manner upon legs 2 and 2^a. A central supporting leg is shown at 3 to the top of which is secured a cross bar or member 4 upon the opposite ends of which are rigidly secured the longitudinal guide members or stationary rails 5. These rails have dove-tailed or T-shaped grooves, as shown in Fig. 3 with which engage correspondingly shaped projections 6^a of the movable rails 6. Each of these movable rails carries a toothed rack 7, the racks of each pair of movable rails having their teeth facing each other. A gear wheel 8 is mounted rigidly upon a shaft 9 suitably journaled in a stationary rail, each gear wheel meshing with

each pair of racks. Each shaft 9 also carries a sprocket wheel 10 which is preferably located in a space or recess in the cross bar 4. These sprocket wheels are connected by a sprocket chain 11 running through a channel which connects said recesses or forms a continuation thereof. One of the shafts 9 is extended through the under-surface of the bar 4 where it is provided with a suitable crank handle 12, and it will thus be seen that by turning the crank handle the sprockets will be rotated in unison and corresponding movement imparted to the gears, which by their engagement with the racks will cause the said racks to simultaneously move in or out according to the direction of rotation of the crank handle. The crank handle is provided with a spring handle pin 13, which is designed normally to engage an opening or recess in the cross bar 4 and hold the crank locked against movement, and consequently the table sections against displacement. When, however, it is desired to move the extensible sections in or out, it is only necessary to withdraw the pin and rotate the crank handle in the proper direction.

The central table section which is shown at 14 is provided with depending pins or projections 15, which fit into vertical guides or openings in the stationary rails 5 and thus the central section 14, while being capable of vertical movement is held against transverse movement in any direction with respect to the stationary rails.

The lifting of the section 14 is accomplished by providing it with inclined lugs or projections 16 depending from its underside, which when the extensible sections 1 and 1^a near the limit of their outward movement, bear against the corresponding inclined face of lugs or projections 17 carried by the movable rails and the relative location of these is such that when the extensible sections reach the limit of their outward movement the intermediate section 14 has been lifted into a position with its upper surface flush with the upper surfaces of the sections 1 and 1^a.

It will be seen that the inner edges of the sections 1 and 1^a are beveled or inclined corresponding to the inclination of the cam faces of the members 16 and 17, the opposite edges of the center section 14 being beveled on the same incline. Thus when the center section rises to its proper position a snug fit between the parts is maintained and wide or unsightly cracks avoided.

In order that the center section when the table is folded up or closed may be entirely concealed from view and yet be of practically the same width as the top sections, I make the side molding pieces 18 of stamped sheet metal and secure them in any suitable manner to the side bars 19 and corresponding ends of the top section. This sheet metal may be so thin as to not make any appreciable difference in the relative width of the central end sections, while at the same time it completes the finish and completely covers the inclosed parts when the table is folded.

What I claim is:—

15 An extension table comprising a central supporting member, stationary rails carried thereby, a pair of movable rails engaging each stationary rail, said rails having a tongue and groove connection, oppositely
20 disposed racks on said pairs of movable rails, a gear wheel carried by each stationary rail

and each wheel meshing with each pair of racks, sprocket wheels connected to said gear wheels, a sprocket chain passing over said sprocket wheels, a crank handle connected to the shaft of one of the gear wheels and having a spring locking projection, end table top sections carried by the movable rails, a central top section, pins carried thereby, said stationary rails having recesses therein with which the pins engage, inclined lugs on the central section and inclined lugs on the movable rails adapted to engage with the lugs on the central section to raise the same.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JACOB HAUT.

Witnesses:

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W. P. BURKE