

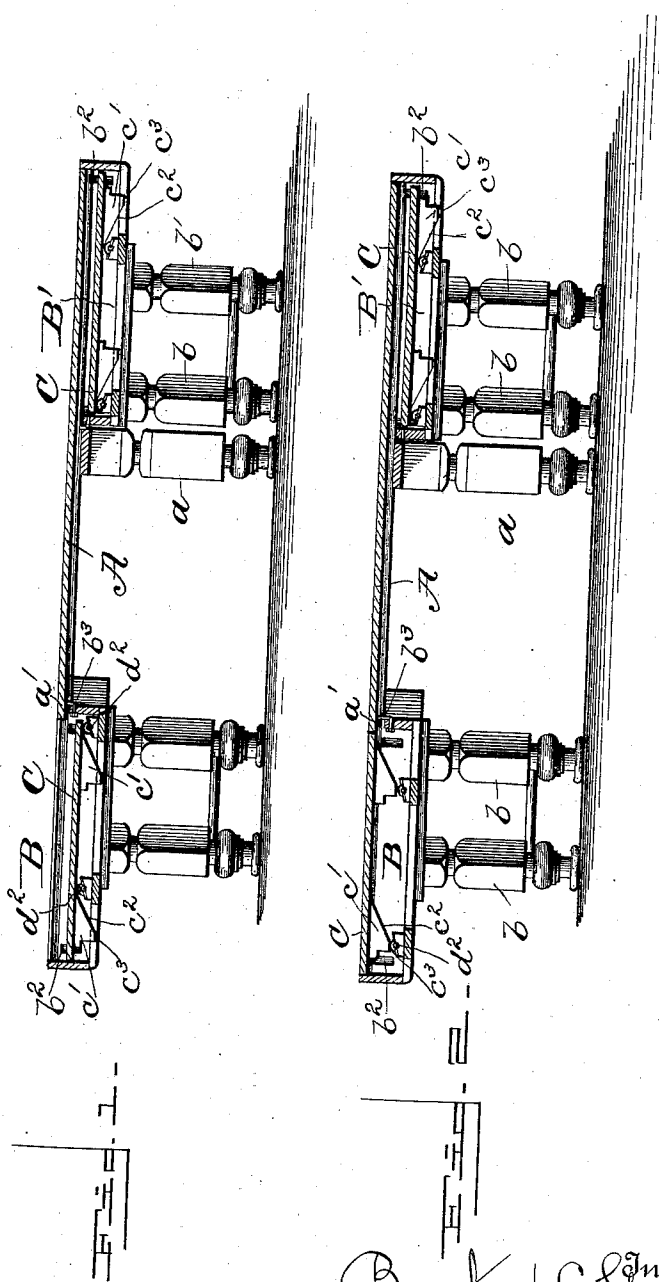
(No Model.)

2 Sheets—Sheet 1.

B. L. GALE.
EXTENSION TABLE.

No. 546,097.

Patented Sept. 10, 1895.



Witnesses
W. H. Pumphrey.
Jessie Kingsbury

Burton L. Gale Inventor
By Attorney Whitakers Priest

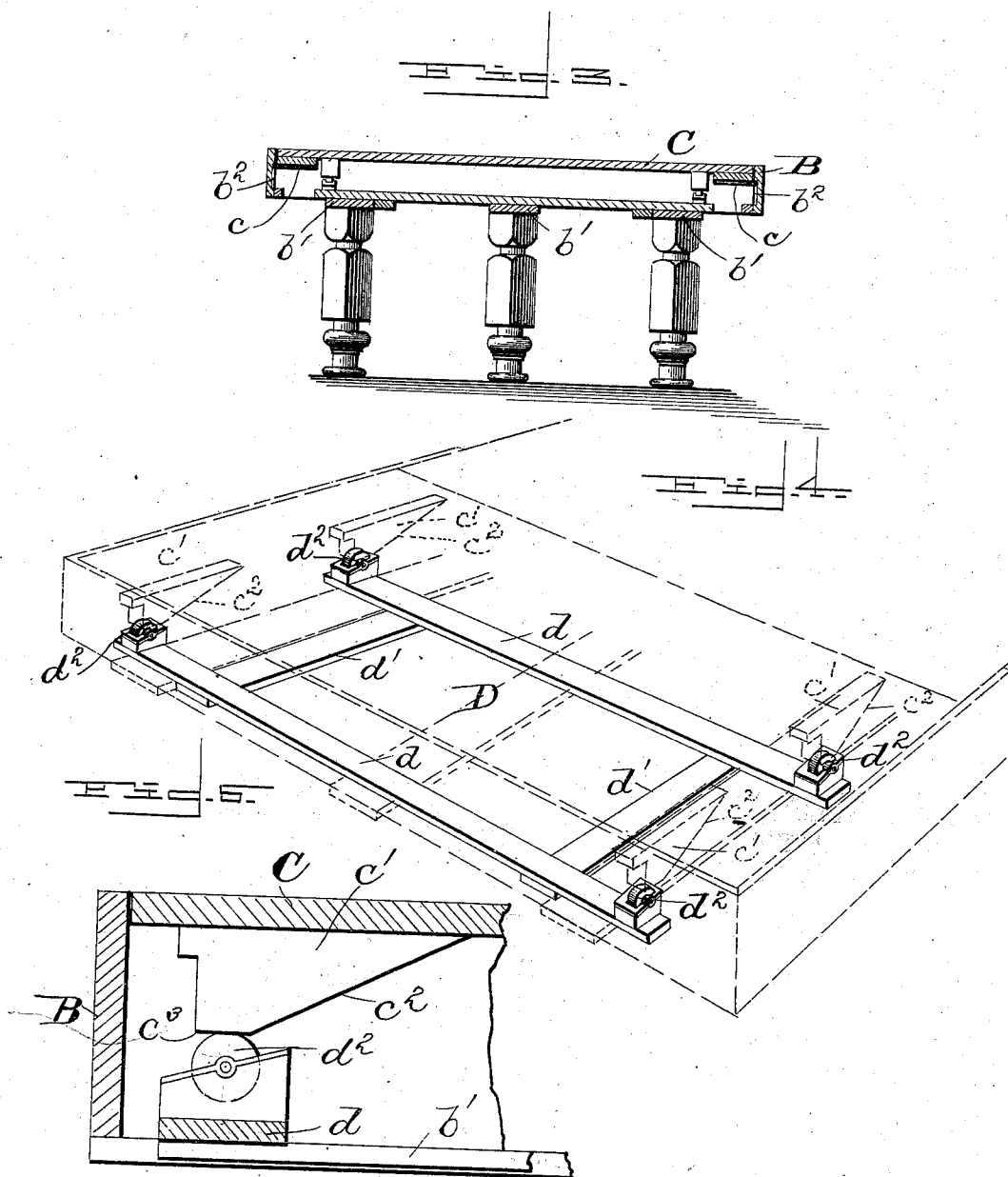
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EXTENSION TABLE.

No. 546,097.

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Witnesses
Jessie Kingsbury.
G. A. Kaulbach.

Inventor
Barton L. Gale
By Attorneys
Whitaker & Perost.

UNITED STATES PATENT OFFICE.

BURTON L. GALE, OF WARREN, PENNSYLVANIA, ASSIGNOR TO THE
WARREN EXTENSION TABLE COMPANY, OF SAME PLACE.

EXTENSION-TABLE.

SPECIFICATION forming part of Letters Patent No. 546,097, dated September 10, 1895.

Application filed August 24, 1893. Serial No. 483,944. (No model.)

To all whom it may concern:

Be it known that I, BURTON L. GALE, a citizen of the United States, residing at Warren, in the county of Warren and State of Pennsylvania, 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 is an improvement in extension-tables; and it consists in the novel features of construction and combination of parts hereinafter fully described, reference being had to the accompanying drawings, which illustrate one form in which I have contemplated embodying my invention, and said invention is fully disclosed in the following description and claims.

Referring to the said drawings, Figure 1 represents a central longitudinal section of a table embodying my invention, showing one of the extension-frames drawn out. Fig. 2 is a similar view showing one of said frames drawn out and the leaf carried thereby raised into the plane of the table-top. Fig. 3 is a transverse vertical section through one of the extension-frames. Fig. 4 is perspective view of the devices for elevating the leaf into the plane of the table-top, showing the position of the extension-frame and leaf in dotted lines. Fig. 5 is a detail sectional view showing one of said elevating devices.

My invention relates particularly to that class of extension-tables which are provided at each end with a sliding extension-frame, carrying a supplemental leaf which lies beneath the plane of the table-top, but which is capable of being raised into the plane of the table-top when the extension-frame has been drawn out to the end of its movement.

In the said drawings, A represents the table-top, supported by suitable legs *a a*, and B B' represent the sliding extension-frames, adapted to slide with respect to the table-top A and provided each with supporting-legs *b b*. Each extension-frame consists of a rectangular framework provided with cross-bars *b b'* on its lower side, disposed lengthwise of the table, and to these cross-bars the legs *b b* are ordinarily secured in any desired manner. Each extension-frame carries an auxiliary leaf C

which is preferably provided at its four corners with projecting plates *c*, which extend into vertical guiding recesses *b²* in the sides of the frame, and this construction serves to guide the leaf in its vertical movements and also to limit its movements. When the leaf is in its lowest position, it is supported by the plates *c*, resting on the lower edges of the recesses *b²*, or it may be supported by other means, if desired. The lower face of each leaf C is provided with a number of cams *c'*, having each an inclined face *c²*, and in order to secure a perfectly even movement of the leaf I prefer to provide the leaf with four of these cams, as shown in the accompanying drawings. Supported upon the cross-bars *b b'* at the bottom of the extension-frame is a sliding rack D, (shown best in Fig. 4), composed in this instance of two transverse bars *d*, connected by two longitudinal bars *d'*, which latter lie just within the cross-bars *b'* and thus guide the rack as it is moved backward and forward. This sliding rack is provided with four devices, each adapted to engage one of the cam-faces *c²* of the cams *c'*. In this instance I have shown the sliding rack D provided with four friction-rollers *d² d² d² d²*, mounted in suitable bearings and so located that when the rack is drawn toward the outer end of the extension-frame each roller *d²* will engage one of the cam or inclined faces *c²*, and thus lift the leaf C evenly and gradually until it is on a level with the table-top A and forms a continuation thereof, as shown at the left in Fig. 2. The inclined or cam face *c²* of each cam terminates in a short horizontal face *c³*, parallel to the leaf C, and when the leaf has been raised into the plane of the table-top the rollers *d²* will engage the horizontal faces *c³* of the cams *c*, and thus support the leaf firmly in position until it is desired to lower it.

The operation of the table is as follows: When it is desired to extend the table, one of the extension-frames B or B' is drawn out, as shown in Fig. 1. When the frame has been drawn out the proper distance, it will be stopped, in this instance by a hook *b³* secured to the frame, engaging a pin *a'*, secured to a part connected with the table-top. The operator will then reach under the end of the table and draw the rack D toward the outer end of the extension-frame, thereby raising the leaf,

as before described and as shown in Fig. 2. To shorten the table, the rack D is pushed in a direction toward the middle of the table, when the rollers d^2 will pass down the inclined or cam faces c^2 of the cams c' and gradually lower the leaf, when the frame may be pushed beneath the table-top.

What I claim, and desire to secure by Letters Patent, is—

- 10 1. In an extension table the combination with the table-top, of a sliding extension-frame, carrying a supplemental leaf provided with depending portions having inclined surfaces, of a sliding rack supported upon said extension frame, provided with friction rolls in position to engage said inclined surfaces, said rack being adapted to be moved by hand to raise and lower said leaf, substantially as described.
- 20 2. In an extension table the combination

with the table-top, of a sliding extension frame, a supplemental leaf mounted to move vertically in said frame and provided with depending lugs in different longitudinal and transverse planes, provided with inclined lower faces, a rack carried by said frame and having a longitudinal sliding movement with respect thereto, a series of friction rolls on said rack engaging said inclined faces of said lugs each of said lugs being provided with faces parallel with the plane of movement of said rack, adjacent to said inclined faces, substantially as described.

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

BURTON L. GALE.

Witnesses:

MARY E. TRIMBLE,
M. P. MOE.