E. BELMORE.

EXTENSION TABLE.

APPLICATION FILED JULY 18, 1913. RENEWED FEB. 8, 1917.

1,239,340.

Patented Sept. 4, 1917.

2 SHEETS—SHEET 1.

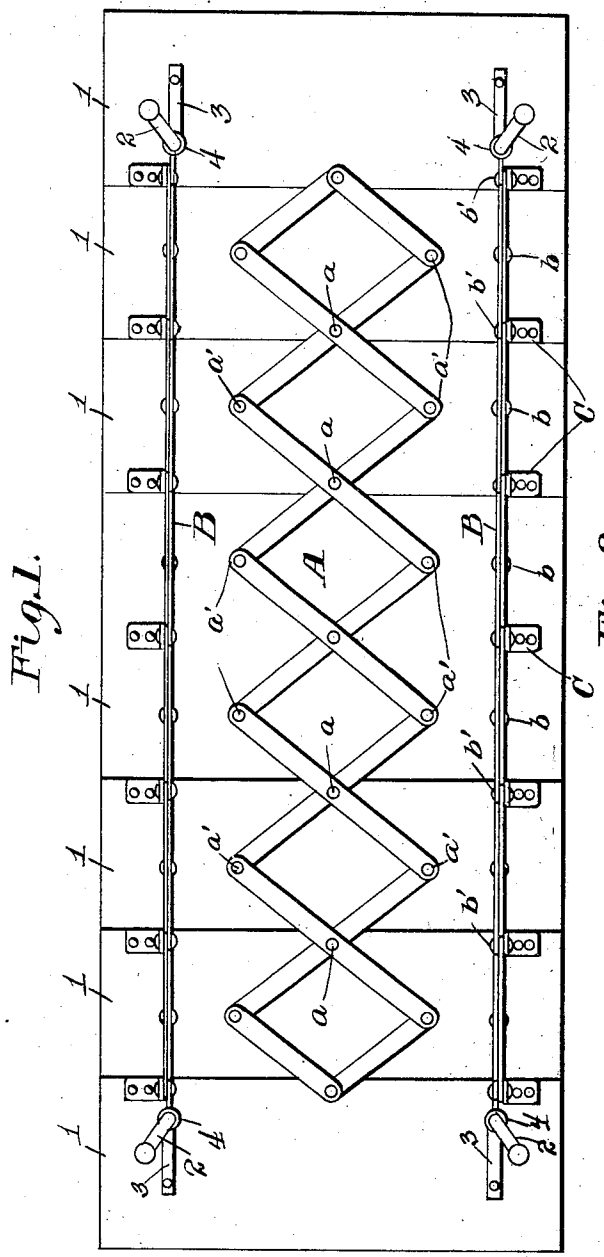


Fig. 1.

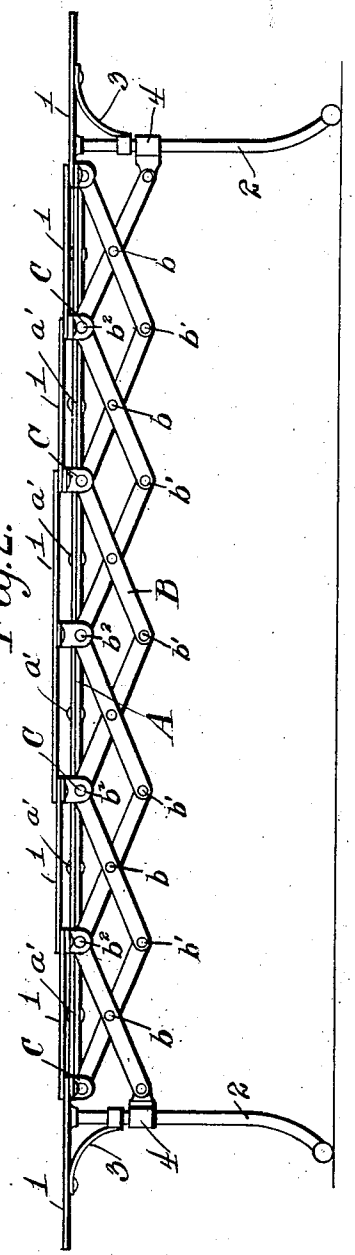


Fig. 2.

Witnesses

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Fig. 3.

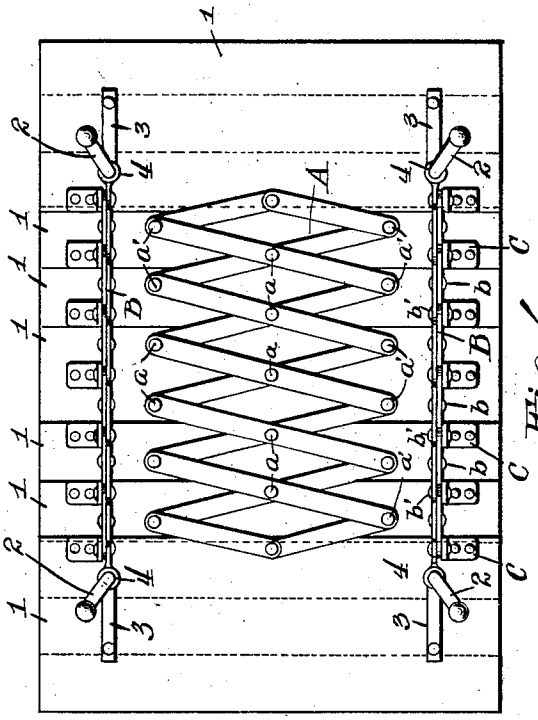
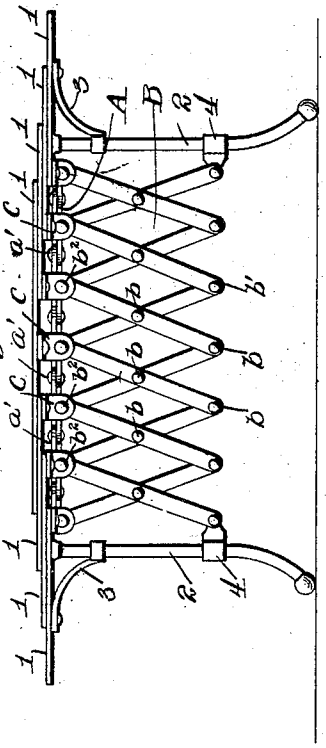


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

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EXTENSION-TABLE.

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To all whom it may concern:

Be it known that I, EDWIN BELMORE, a citizen of the United States, residing at Portland, in the county of Multnomah and State of Oregon, have invented new and useful Improvements in Extension-Tables, of which the following is a specification.

The invention provides a table of the extension type embodying a minimum number of parts and free from the use of the ordinary slides which add materially to the weight of such tables and render them difficult of manipulation when opening or closing.

The invention provides an extension table embodying leaves which are relatively slidable upon one another, thereby avoiding the necessity for removing or placing leaves in position as generally required with the ordinary extension table when reducing or lengthening the same.

The invention provides a table which may be extended to its full length or reduced to a minimum length at a moment's notice, the leaves sliding over one another in each operation and being equally spaced and receiving a like relative movement, the controlling means serving to strengthen and brace the table vertically and laterally.

The invention consists of the novel features, details of construction and combination of parts, which hereinafter will be more particularly set forth, illustrated in the accompanying drawings, and pointed out in the appended claims.

Referring to the drawings, forming a part of the specification,

Figure 1 is a view of an extension table embodying the invention, showing the same as it appears when seen from the under side.

Fig. 2 is a side view of the table extended.

Fig. 3 is a view similar to Fig. 1, showing the table reduced to a minimum length.

Fig. 4 is a side view of the table reduced in length to the size shown in Fig. 3.

Corresponding and like parts are referred to in the following description, and indicated in all the views of the drawings, by the same reference characters.

The table comprises a plurality of leaves which are arranged to slide one upon the other both when drawing the table outward or pushing it together as in the act of lengthening or reducing the same. The leaves may be of any length and width and the table may comprise any number of leaves according to the required length of the table when extended or reduced in size. The numeral 1 designates the leaves which when the table is extended to its full length have edge portions overlapping, as indicated most clearly in Figs. 1 and 2. When the table is reduced in length, as indicated in Figs. 3 and 4, the leaves occupy a superposed position. The outermost leaves of the table are supported upon legs 2 which may be attached thereto in any manner, braces 3 serving to strengthen the connection of the legs with the leaves. The several leaves are connected by means of pairs of compound levers which have a lazy tongs arrangement, as indicated most clearly in Figs. 1 and 2. There are three sets of levers or lazy tongs, as indicated at A and the other two having a vertical arrangement, as indicated at B. The horizontal lazy tongs is arranged between the vertical lazy tongs and serve to brace the table laterally, whereas the lazy tongs B brace the table vertically against the weight that may be placed thereon. The horizontal lazy tongs has its levers pivotally connected to one another at a, said pivot connections being secured to the leaves 1 in any manner. The extremities of such horizontal levers are connected by means of pivot fastenings a' which are free to move independently of the leaves. The levers of the lazy tongs B are pivotally connected at b and their lower ends are connected by means of pivot fastenings b', whereas their upper ends are connected by means of pivot fastenings b^2, such fastenings being secured to ears or studs C pendent from edge portions of the leaves 1. The lower ends of the extreme levers are pivotally connected to sleeves 4, which are arranged to slide upon the legs 2. The several lazy tongs insure a relative like movement of the leaves 1, but the outermost leaves move more rapidly than the intermediate leaves, such movement being proportionate to the movement of the lazy tongs, as will be readily understood.

It is to be understood that the leaves 1 comprising the top of the table must be exceedingly thin in order to provide a table having a comparatively level top and for this purpose it is preferred to construct the leaves of sheet metal. The table is lengthened by pulling the extreme leaves apart and when it is required to diminish the length of the table the leaves are pressed inward. In

both operations, that is when lengthening or shortening the table the leaves slide one upon the other. The lazy tongs maintain the leaves in parallel relation and prevent one end of a leaf moving faster than its opposite end, hence the table presents a straight appearance at all adjustments with its leaves parallel to a given position.

From the foregoing description, taken in connection with the accompanying drawings, the advantages of the construction and of the method of operation will be readily apparent to those skilled in the art to which the invention appertains, and while I have described the principle of operation of the invention, together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative, and that such changes may be made when desired as are within the scope of the claims appended hereto.

Having thus described the invention what is claimed as new, is:—

1. An extension table comprising a plurality of leaves arranged to slide one upon the other and two lazy tongs, the one having a horizontal arrangement and the other a vertical arrangement, the pairs of compound levers of the respective lazy tongs being pivotally connected to one another and to the leaves of the table.

2. An extension table comprising a plurality of leaves arranged to slide one upon the other, a horizontal lazy tongs having its levers pivotally connected to one another and to the leaves, and two vertical lazy tongs arranged at the sides of the horizontal lazy tongs, each of the vertical lazy tongs having its levers pivotally connected to one another and to the leaves of the table.

3. An extension table comprising a plurality of leaves arranged to slide one upon the other, legs attached to the outermost leaves, sleeves slidably mounted upon the legs, a horizontal lazy tongs having its levers pivotally connected to one another and to the leaves, and vertical lazy tongs at the sides of the horizontal lazy tongs and having the upper ends of their levers pivotally connected to the leaves of the table and having the lower ends of the outermost levers pivotally connected to the sleeves mounted upon the said legs.

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

EDWIN BELMORE.

Witnesses:
BEN C. DEY,
FREDA KRUPKE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."