No. 624,716. Patented May 9, 1899.

R. F. WESTERFIELD.

EXTENSION TABLE.

(Application filed July 12, 1898.)

(No Model.) 2 Sheets—Sheet 1.

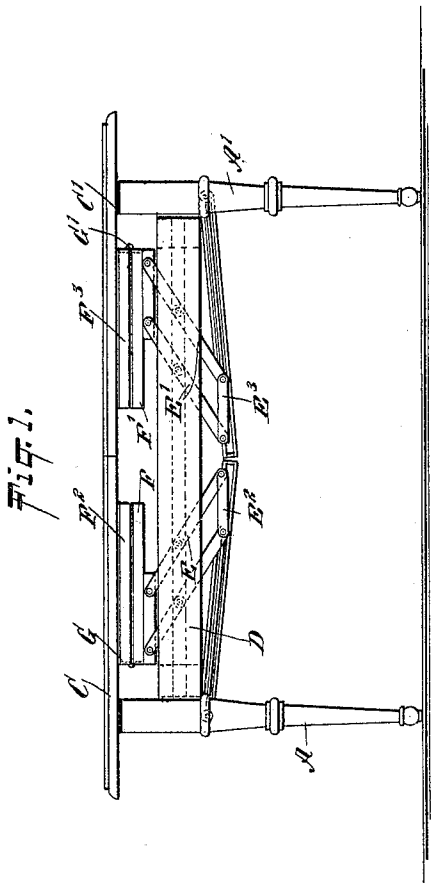


Fig. 1.

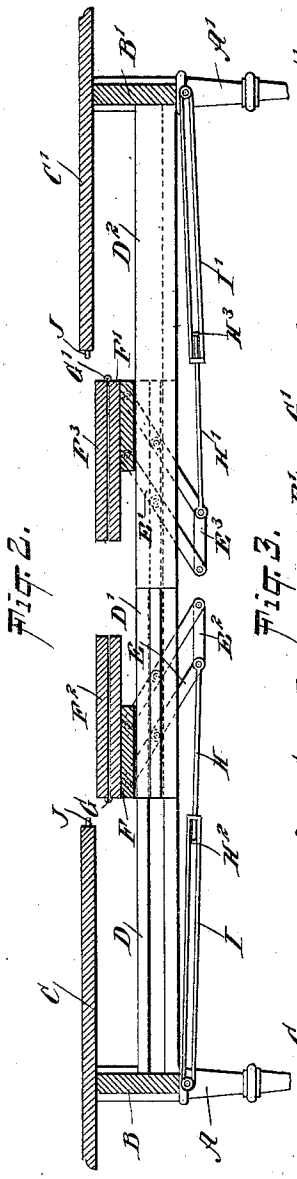


Fig. 2.

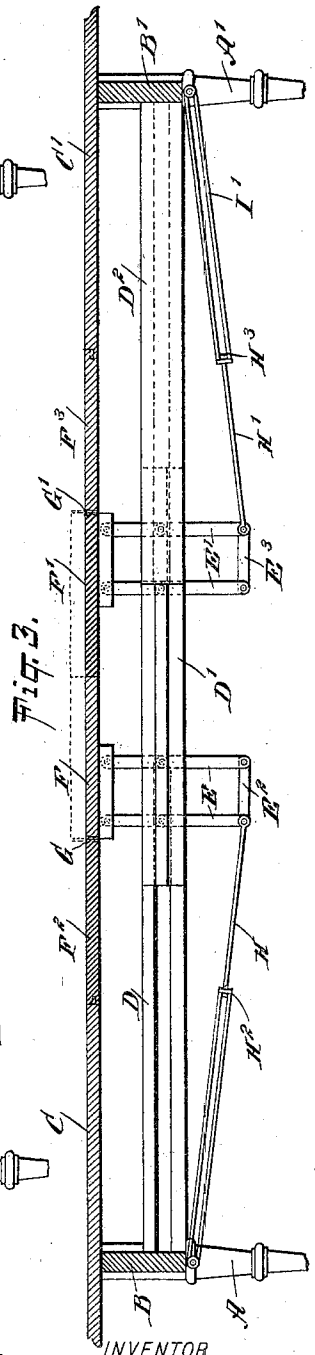


Fig. 3.

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(No Model.) 2 Sheets—Sheet 2.

Fig. 4.

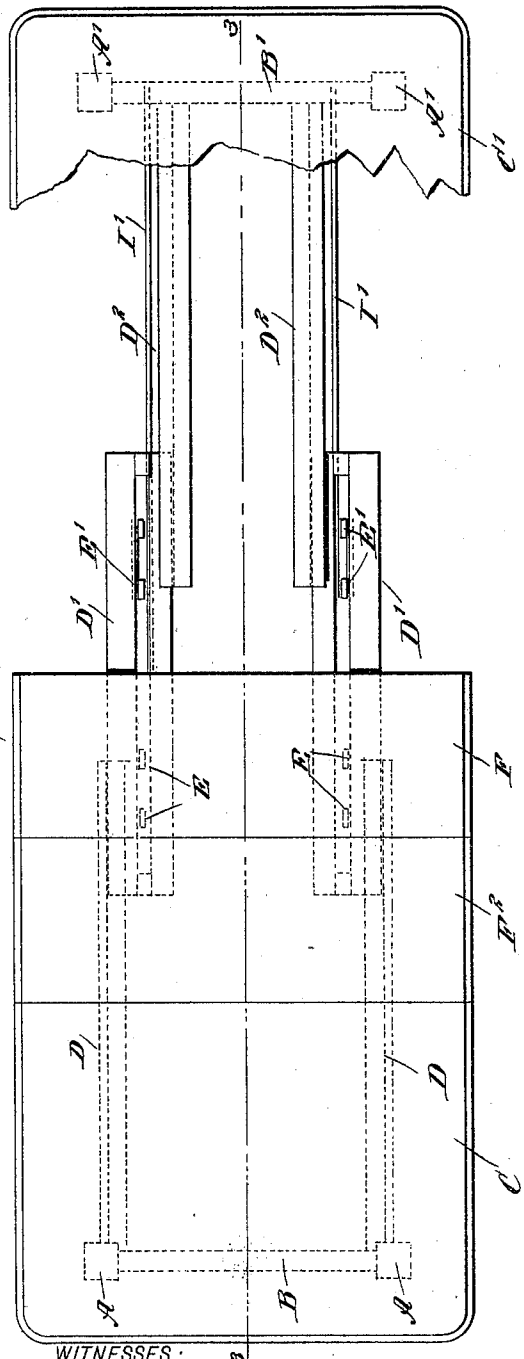


Fig. 5.

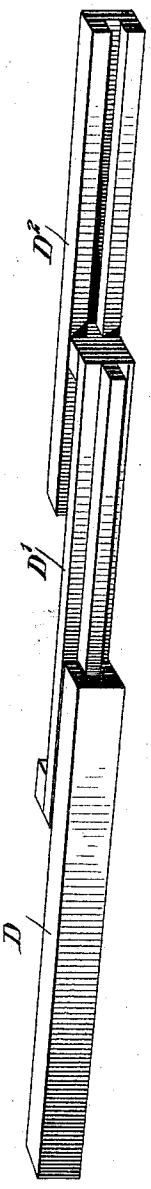
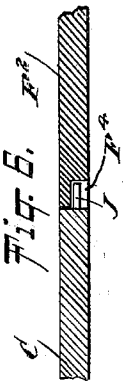


Fig. 6.



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UNITED STATES PATENT OFFICE.

RANDOLPH F. WESTERFIELD, OF NEW YORK, N. Y., ASSIGNOR TO FRANCES A. WESTERFIELD, OF SAME PLACE.

EXTENSION-TABLE.

SPECIFICATION forming part of Letters Patent No. 624,716, dated May 9, 1899.

Application filed July 12, 1898. Serial No. 685,809. (No model.)

To all whom it may concern:

Be it known that I, RANDOLPH F. WESTERFIELD, of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Extension-Table, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved extension-table which is simple and durable in construction and arranged to contain folded extension-leaves below the table-top and to bring the folded leaves into position upon extending the table to permit the operator to open the folded leaves and complete the extension-table top.

The invention consists of novel features and parts and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the improvement in a folded position. Fig. 2 is a sectional side elevation of the same partly extended. Fig. 3 is a like view of the same completely extended, the section being taken on the line 3 3 in Fig. 4. Fig. 4 is a plan view of the same with parts removed and part broken out. Fig. 5 is an enlarged perspective view of the extension-rail; and Fig. 6 is an enlarged sectional elevation of part of the extended table-top, showing the support for the leaves.

The improved extension-table is provided with legs A A and A′ A′, of which the legs A A are rigidly connected with each other by a transverse rail B, and a similar rail B′ connects the legs A′ A′ with each other. The table-top section C is carried by the legs A A and the rail B, and the table-top section C′ is similarly supported on the legs A′ A′ and the rail B′.

A sliding longitudinal connection is made between the slidable parts of the extension-table, as hereinafter described, and for this purpose I provide two sets of rails, each made in sections D D′ D^2, slidable upon one another, with the section D secured to the legs A A and the rail B, the section D^2 secured to the rail B′, and the section D′ slidable on both sections D D^2. On each of the middle sections D′ of the longitudinal rails are pivoted pairs of levers E E′, on the upper ends of which are fulcrumed the leaves F F′, on which are hinged the leaves F^2 F^3, respectively, by suitable hinges G G′, respectively, and the lower ends of the levers are connected with each other by links E^2 E^3, respectively, the outermost levers of each pair being pivotally connected with rods H H′, fitted to slide in guideways I I′, respectively, held on the extensible parts of the table—that is, on the rails B B′. The rods H and H′ are provided in their guideways with heads H^2 and H^3, respectively, to abut against the ends of the guideways at the time the extensible parts of the table are nearly in an extended position.

When the table is closed, as shown in Fig. 1, the folded table-leaves F F^2 and F′ F^3 extend under the table-top sections C C′, the pairs of levers E E′ being in an inclined position, as will be readily understood by reference to said Fig. 1. Now when it is desired to extend the table then the operator in sliding one or both extensible parts of the table outward causes the rail-sections D D′ D^2 to slide upon one another, the rods H H′ sliding on the guideways I I′ until the heads H^2 H^3 come in contact with the ends of said guideways, so that upon further outward movement of the extensible parts the guideways pull on the rods H H′ and the latter on the pairs of levers E E′ to swing the same into a vertical position, so as to bring the leaves F F′ in the same horizontal plane as that of the table-top sections C C′, and at the same time bring the inner or adjacent edges of said leaves F F′ in contact with each other. The operator now swings the hinged leaves F^2 F^3 outward to bring the free ends of said leaves in engagement with the inner edges of the table-top sections C C′ to complete the table-top.

In order to properly support the leaves F^2 F^3 at their free ends, any suitable devices may be provided. If desired, the inner edges of the table-top sections C C′ may be fitted with longitudinally-extending supporting-pins J, and recesses F^4 are formed in the under side of the leaves F^2 and F^3, so that when the latter

are swung into a final position the pins are engaged by the recesses, as is plainly shown in Fig. 6, the top wall of the recesses resting on the pins to support the free ends of the leaves. These elements form no part of the present invention.

From the foregoing it will be seen that the folded leaves F F^2 and F' F^3 remain stationary during the initial outward movement of the extensible parts of the table and are only swung into an upward position upon completing the outward movement of the extensible parts by swinging the levers E E' into a vertical position. As the adjacent edges of the leaves F F' abut against each other, a further outward movement of the extensible parts is prevented, and consequently the levers E E' remain in a vertical position to properly support the leaves F F', and when the hinged leaves F^2 F^3 are swung upward to complete the table-top, as previously explained, then the several parts are securely locked in place and accidental displacement of the several parts cannot take place. When it is again desired to bring the extension-leaves into a folded position under the table-top, it is necessary that the operator first fold the leaves F^2 F^3 back upon the leaves F F' and then push the extensible parts toward each other to permit the levers E E' to swing back to their forward inclined position, as shown in dotted lines in Figs. 1 and 2, to bring the folded leaves again under the table-top sections C C' upon finally closing the table.

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

1. An extension-table, having two end sections, legs supporting said end sections, two rail-sections carried on each end section, an intermediate rail-section sliding between each pair of end rail-sections, levers pivoted to each intermediate rail-section, rods connected with the lower ends of the levers, pivoted guideways in which the rods slide, and folding leaf-sections carried by the levers.

2. An extension-table having end sections, rail-sections whereon the end sections slide, levers fulcrumed on the rail-sections, rods in connection with the levers, guideways in which the rods slide, and leaf-sections carried by the upper ends of the levers.

3. An extension-table having end sections, rail-sections with which said end sections have sliding connection, levers fulcrumed at points intermediate their lengths on the rail-sections, means for guiding the lower ends of the levers, and extension leaf-sections carried by the upper ends of the levers.

4. In an extension-table, the combination of two end sections adapted to move toward and from each other, a lever fulcrumed on the table, an extension-leaf carried by the lever and raised and lowered thereby, a rod in connection with the lever, and a guideway in which the rod is mounted to slide, the guideway being connected with one of the end sections, whereby as the end sections are moved apart, the rod first slides idly, and whereby the rod upon reaching the limit of its sliding movement, serves to throw the levers so as to lift the extension-leaf.

5. In an extension-table, the combination of a sliding end section, an extension-leaf, a lever mounted on the table and carrying the extension-leaf, a rod, and a guideway in which the rod is mounted to slide, the rod and guideway being respectively connected with the lever and sliding end section, whereby to throw the extension-leaf upon the movement of said end section.

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

RANDOLPH F. WESTERFIELD.

Witnesses:

E. T. WESTERFIELD,

FRANK WESTERFIELD.