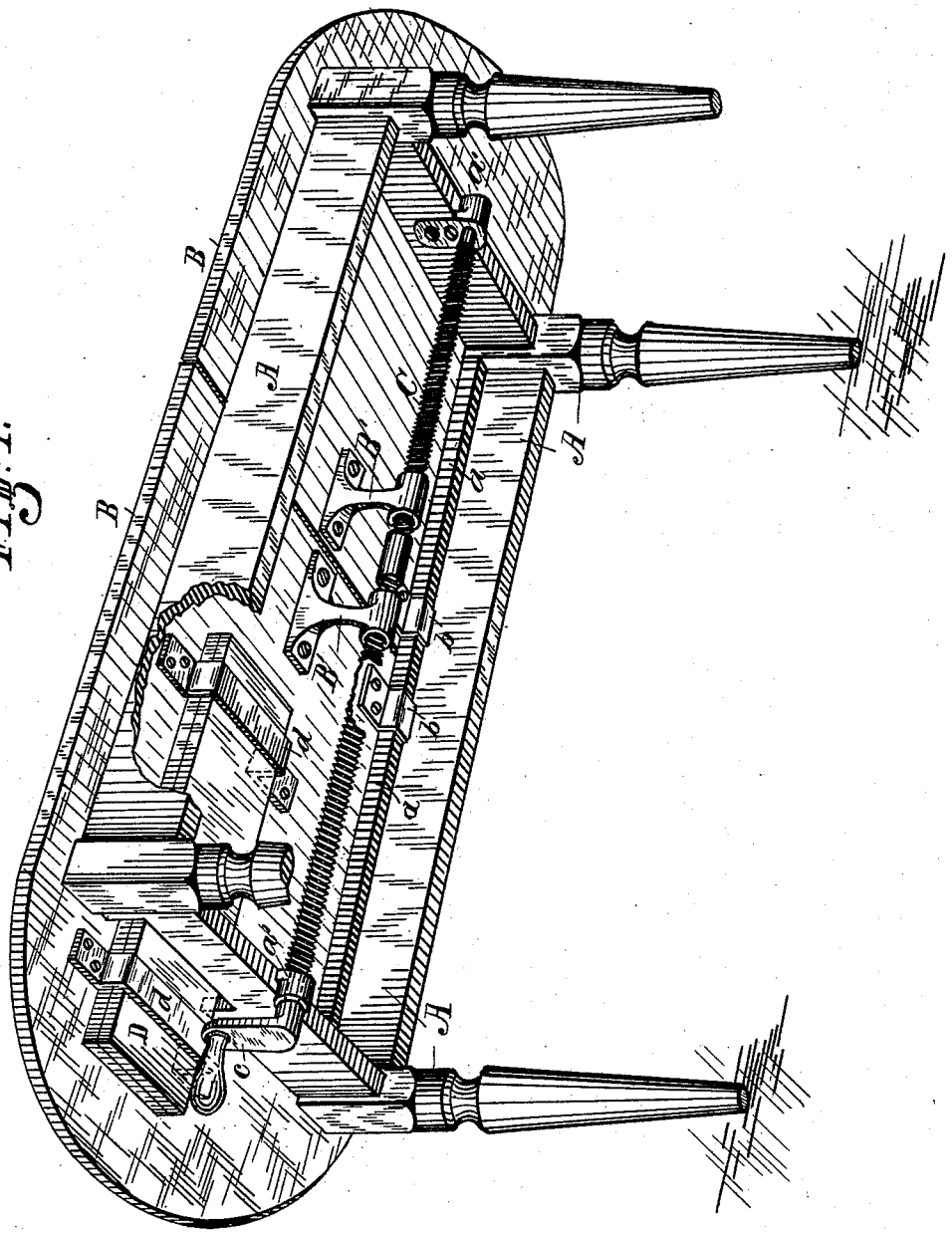
(No Model.) 2 Sheets—Sheet 1.

S. S. SUTHERLAND.

EXTENSION TABLE.

No. 384,178. Patented June 5, 1888.

Fig. 1.



Witnesses.
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(No Model.) 2 Sheets—Sheet 2.

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EXTENSION TABLE.

No. 384,178. Patented June 5, 1888.

Fig. 2.

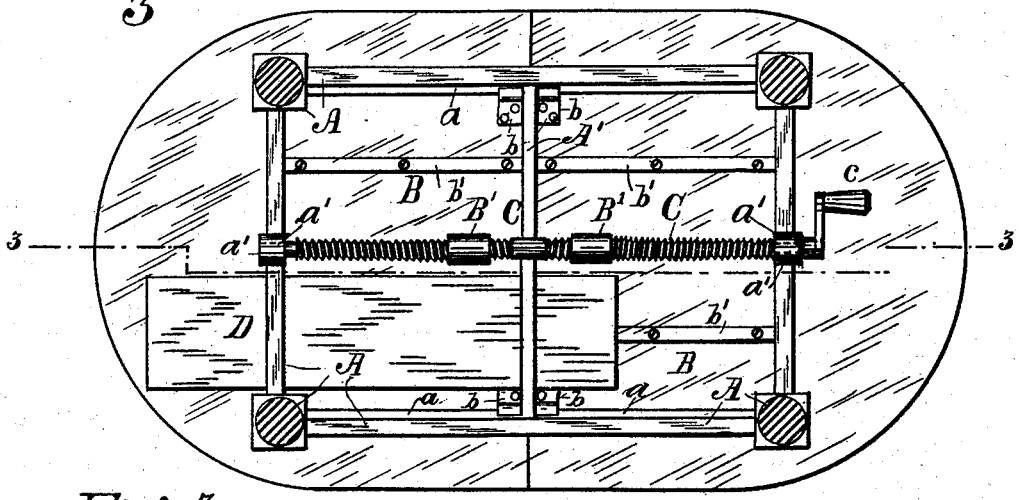


Fig. 3.

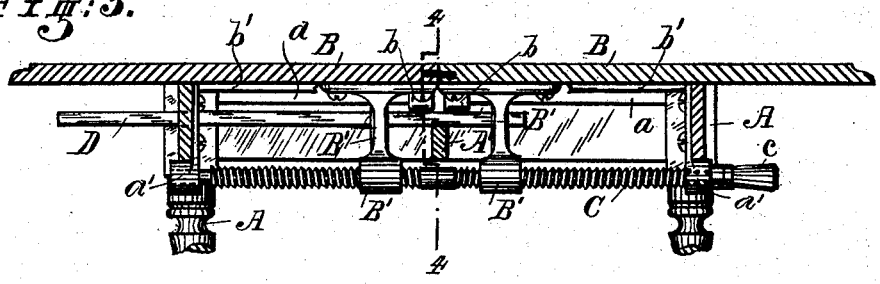
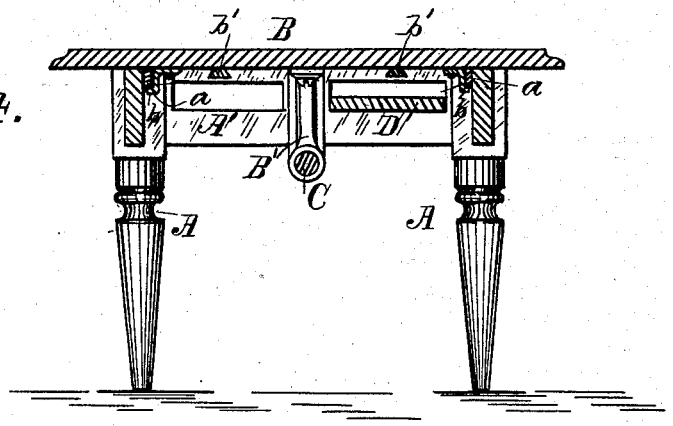


Fig. 4.



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UNITED STATES PATENT OFFICE.

SYLVANUS S. SUTHERLAND, OF INDIANAPOLIS, INDIANA.

EXTENSION-TABLE.

SPECIFICATION forming part of Letters Patent No. 384,178, dated June 5, 1888.

Application filed January 27, 1888. Serial No. 262,119. (No model.)

To all whom it may concern:

Be it known that I, SYLVANUS S. SUTHERLAND, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Extension-Tables, of which the following is a specification.

My said invention consists in an improved construction of extension-tables whereby the "slide" commonly used in tables of this character is done away with, the sides of the table-frame made solid, and a convenient and easy means for opening and closing the table provided, together with other improvements in the details of construction, by which the table is rendered, very convenient and substantial, as will be hereinafter more particularly described and claimed.

Referring to the accompanying drawings, which are made a part hereof, and on which similar letters of reference indicate similar parts, Figure 1 is a perspective view of one of my improved extension-tables; Fig. 2, an under side plan of the same, the legs being shown in section; Fig. 3, a longitudinal section through the same on the dotted line 3 3 in Fig. 2, and Fig. 4 a transverse section on the dotted line 4 4 in Fig. 3.

In said drawings, the portions marked A represent the supporting-frame of the table; B, the top; C, a right and left hand screw for operating the same, and D the table-leaves.

The frame A consists of a solid rectangular frame provided with a leg at each corner, as shown, and of the size and strength required for the purpose. On the inside of each of the side pieces, at the top, is secured a cleat, *a*, which extends from end to end thereof.

The top B is formed in two parts and of the usual or any desired shape, and is arranged to slide on the top of said frame A. At the inner edge of each half is secured a clip, *b*, which extends down and engages with the lower edge of the cleat *a*. One of these clips being provided on each side, said top is thus firmly secured on the frame. Hangers B′ are also rigidly secured to the under side of said halves and each is provided at its lower end with a nut or screw-threaded perforation extending longitudinally of the table, one being threaded for a right-hand screw and the other for a left-hand screw, as will be presently described.

In Figs. 2, 3, and 4 I have shown a dovetail-shaped rib, *b′*, secured to each side of the table-top on its under side and provide similarly-shaped notches in the end pieces of the frame in which they are adapted to slide, and thus hold said top more securely in position.

The screw C is journaled in bearings *a′*, rigidly secured at the center of each of the end pieces of the frame. From a point near each end to one near the center said screw is provided with right-hand threads on one end and left-hand threads on the other, said ends being arranged to operate in the nuts or screw-threaded perforations in the lower ends of the hangers B′, as shown. The journal at one end of said screw is extended through the bearing and provided with a crank on its outer end, by which it may be operated.

The leaves D are the ordinary leaves adapted for use with this class of tables; but I have shown a new means for carrying them, which is very convenient and desirable. In Fig. 1 this means consists of suitable brackets, *d*, secured to the under side of the table-top and adapted to receive and support said leaves when not in use, a portion of the end pieces of the frame being cut out to permit them to slide into position, as shown at one corner of said figure. In Figs. 2, 3, and 4 I have shown a center cross-bar, A′, arranged to support the inner end of the leaves, the outer end resting in the opening in the end piece. Either construction may be used, as preferred. As will be readily understood, one of these arrangements can be made at each corner of the table, and thus a very convenient manner of disposing of the table-leaves where they will always be at hand for use is provided, one of the advantages of this peculiar construction of table being that this space is left available for this purpose.

The operation of my said invention is as follows: When it is desired to open the table, it is only necessary to operate the screw C by means of the crank on its end, which, being securely journaled at each end, operates to force the nuts on the ends of the hangers toward its ends, carrying with them the parts of the ta-

ble-top to which they are secured, the clips *b* operating to hold said table-top down onto the frame and prevent it from any lateral motion, as do also the ribs *b'* when used, which insures an even and steady movement of the top and renders the operation of opening the table very easy and quick. The hangers B', secured to the front edge of each part of the top, being at all times in engagement with the rigid screw C, also operate to hold said parts in position, even though they are opened wide and heavily laden on their outer ends. After the table has been opened the leaves are placed in position in the well-known manner, and when it is desired to close the table they are removed and the screw C operated in the reverse direction, which quickly closes the table and secures it tightly closed until it may again be desired to open it, the leaves being placed in position beneath the top out of the way.

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

1. In an extension-table, the combination of the frame formed as an entire non-extensible part, the top of the table formed in two parts and arranged to slide on said frame, and the means, substantially as described, for operating said top, all substantially as set forth.

2. The combination, in a table, with the frame, of the top arranged to slide on said frame, screw-threaded parts secured to said top, and a right and left hand screw journaled in suitable bearings on said frame and arranged to engage with said screw-threaded parts, substantially as set forth.

3. The combination, with the frame A, provided with the longitudinal cleats *a* on its side pieces, of the table-top formed of two parts and arranged to slide on said frame, having clips *b*, arranged to engage with said cleats, hangers B', secured to each part of said top, provided with screw-threaded nuts on the lower ends, and the right and left hand screw C, journaled in suitable bearings on the frame and engaging with the nuts on said hangers, substantially as set forth.

In witness whereof I have hereunto set my hand and seal, at Indianapolis, Indiana, this 21st day of January, A. D. 1888.

SYLVANUS S. SUTHERLAND. [L. S.]

Witnesses:

E. W. BRADFORD,

CHARLES L. THURBER.