

(No Model.)

2 Sheets—Sheet 1.

E. NEUMER & M. DERX.

EXTENSION TABLE.

No. 323,520.

Patented Aug. 4, 1885.

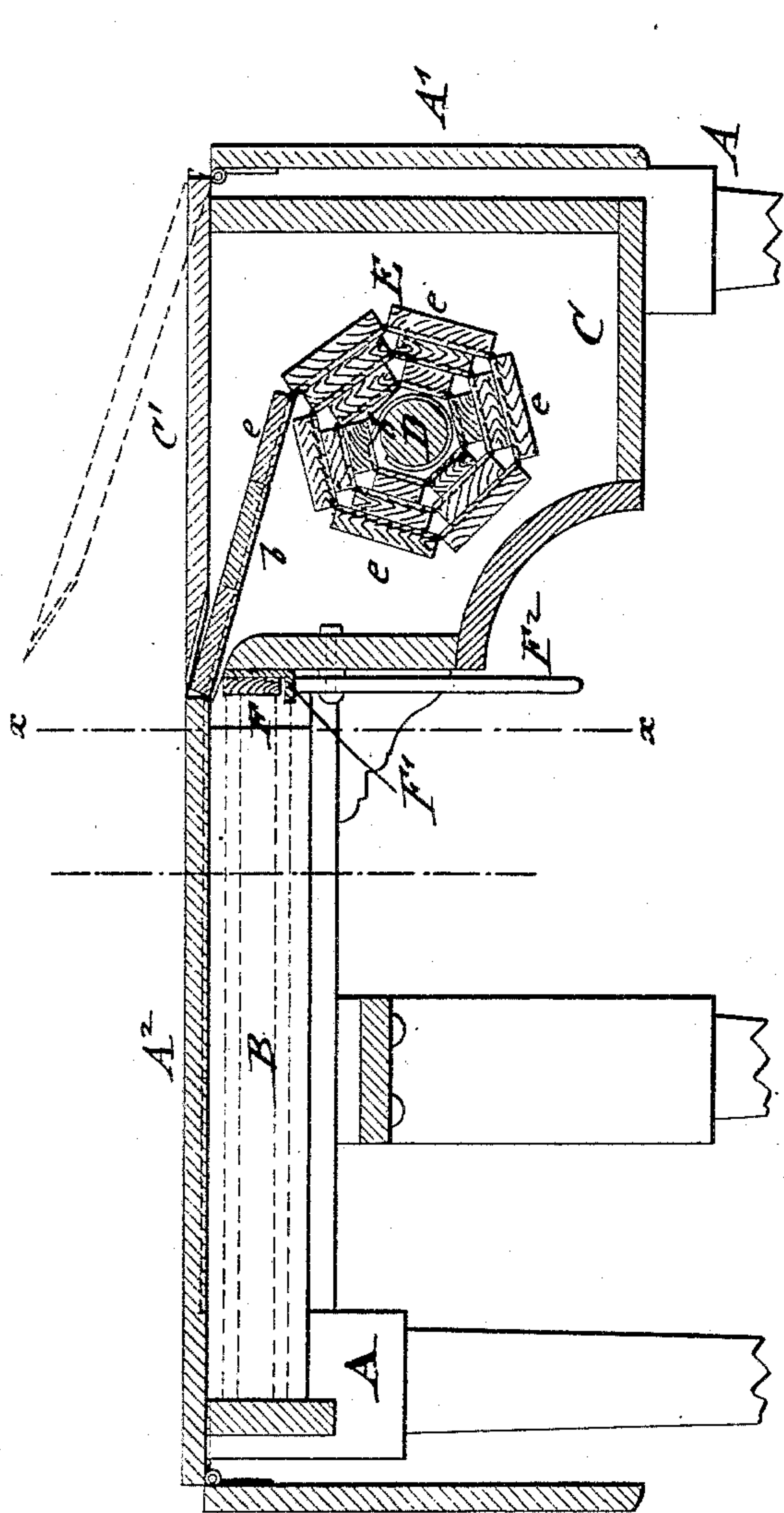


Fig. 1. A' A''

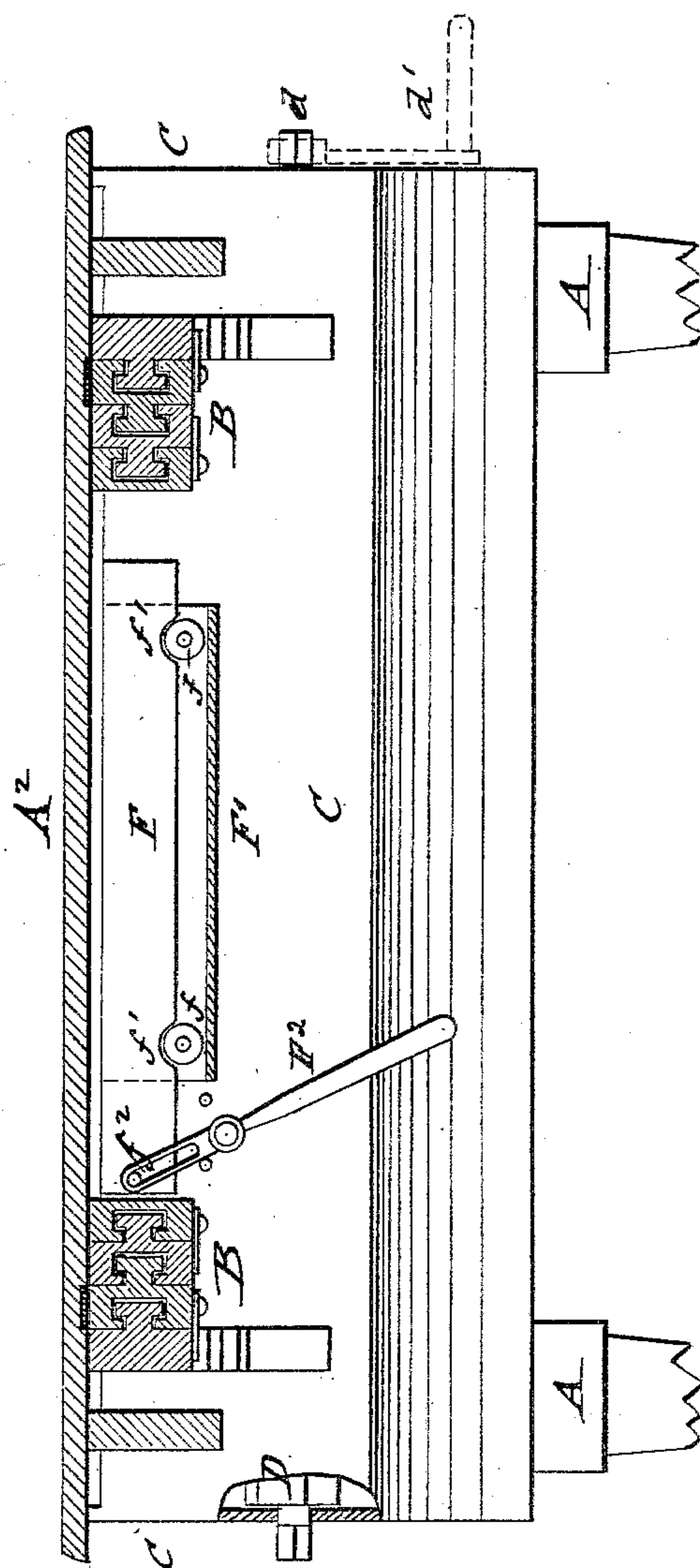


Fig. 2. A' A''

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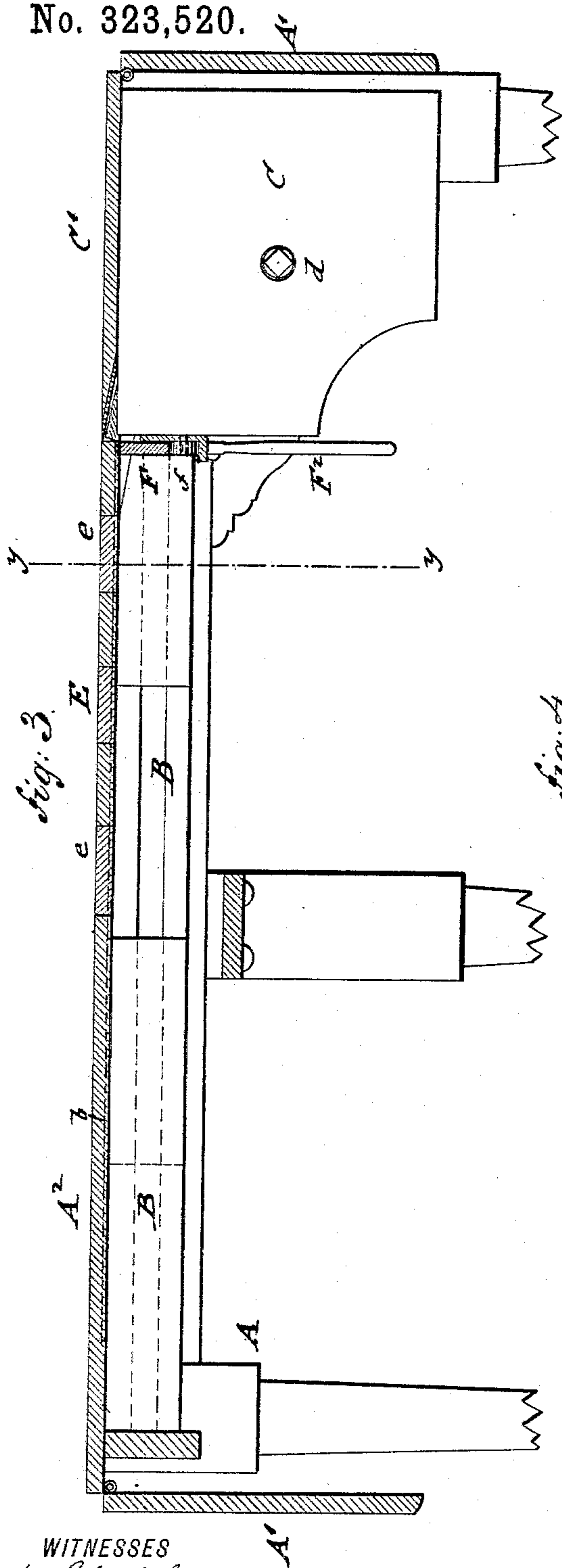
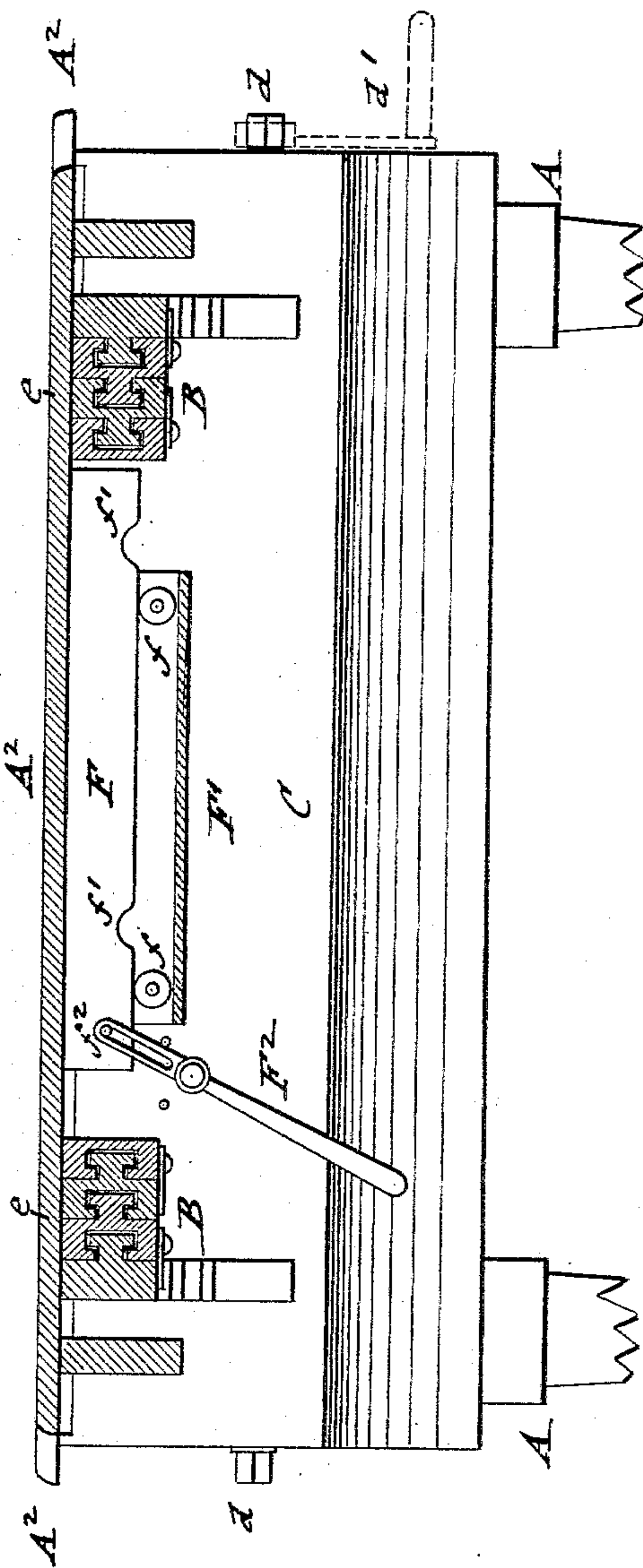


Fig. 4.



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UNITED STATES PATENT OFFICE.

EMIL NEUMER AND MARTIN DERX, OF NEW YORK, N. Y.

EXTENSION-TABLE.

SPECIFICATION forming part of Letters Patent No. 323,520, dated August 4, 1885.

Application filed March 11, 1885. (No model.)

To all whom it may concern:

Be it known that we, EMIL NEUMER and MARTIN DERX, of the city, county, and State of New York, have invented certain new and useful Improvements in Extension-Tables, of which the following is a specification.

This invention has reference to an improved extension-table that can be quickly drawn out to any desired length and returned into its original position without inserting or removing any leaves; and the invention consists of an extension-table provided with the usual extension-slides and a storage-box at one end, having a transverse roller, on which is wound up a sectional extension-leaf, which is formed of a series of transverse strips attached to stout straps or bands connected to the main portion of the table. Below the sectional extension-leaf is arranged a transverse rail, at the point where it passes to the outside of the box, which rail is guided on rollers and moved by a fulcrumed lever into raised or lowered position, according as the extension-leaf is to be retained at a level with the main portion of the table or lowered so as to be returned into the storage-box. The edge of the cover of the storage-box, the extension-slides, and upper edge of the inner wall of the storage-box next adjoining the extension-leaf are beveled for properly guiding the extension-leaf in extending or contracting the table.

In the accompanying drawings, Figure 1 represents a vertical longitudinal section of our improved extension-table, shown in position before being extended. Fig. 2 is a vertical transverse section of the same on line x x , Fig. 1. Fig. 3 is a vertical longitudinal section showing the table in extended state, and Fig. 4 is a vertical transverse section on line y y , Fig. 3, showing the supporting-rail of the extension-leaf in raised position.

Similar letters of reference indicate corresponding parts.

A in the drawings represents an extension-table which is provided with the usual hinged leaves, A' A' , and extension-slides B B. At one end of the table A is arranged a storage-box, C, in which a transverse roller, D, is arranged, the shaft of which is extended through the end walls of the storage-box C, and provided with square ends d d , for applying a hand-crank, d' , as shown in Figs. 2 and 4. To

the roller D are applied two or more stout bands or straps, b b , of leather, canvas, or other suitable fabric, which are firmly attached at their opposite ends to the under side of the horizontal main portion A^2 of the table A. To the straps or bands b b are glued, screwed, or otherwise attached transverse strips e e , which are equal in length to the roller D and the interior width of the storage-box C, but somewhat shorter than the width of the main portion A^2 . The width of the strips e e diminishes gradually from the point of connection with the main portion of the table A toward the roller D, as shown in Fig. 1, so as to facilitate the winding up on said roller. The strips e e are arranged, one adjoining the other, on the straps b b and form an extension-leaf, E, which is unwound from the roller D and drawn out of the storage-box C when the table is extended, as shown in Fig. 3, but which is drawn into the storage-box and wound up on the roller D when the table is contracted, as shown in Fig. 1.

The cover C' of the storage-box C is hinged at its outer edge to the frame of the table and beveled at that edge above the extension-leaf E. The inner transverse wall of the storage-box C is made of less height than the outer wall and beveled or rounded off at the upper edge so as to form a guide-opening through which the extension-leaf E can pass to the outside of the box C. The upper parts of the extension-slides and supporting-rails of the table next adjoining the beveled-off edges of the cover C' and inner wall of the storage-box C, are also inclined or beveled, so as to form guides for the extension-leaf when the same is drawn in or out.

When it is desired to extend the table, the ends are taken hold of and pulled in opposite direction, whereby the table is extended by means of the slides B B. Simultaneously the extension-leaf E is drawn out until the required length of table is obtained. It is then necessary to raise the extension-leaf E next adjoining the storage-box C to the same level with the main portion of the table A, which is accomplished by means of a transverse rail, F, which is located between the extension-slides B, and supported on anti-friction rollers f f , of an L-shaped piece, F, attached to the inner wall of the storage-box C, as shown in

Figs. 3 and 4. The rail F is provided with segmental bottom recesses, f' , that rest on the rollers f when the rail is in lowered position, but clear the same when the rail is to be raised.

5 A fulcrumed lever, F^2 , engages by its slotted upper end a pin, f^2 , of the transverse rail F, and serves to move the rail F in one or the other direction according as the same is to be raised or lowered, as shown in Fig. 4 or 2.
 10 When it is desired to return the table into its normal position, with the extension-leaf stored away in the box C, the rail F is lowered so that a sufficient space is formed between the beveled edge of the cover C and the beveled
 15 upper edge of the inner wall of the storage-box. The roller D is then turned by the crank-handle applied to the square end of the roller, and thereby the extension-leaf wound up on the roller and the table returned to its
 20 contracted position.

By the construction described, the separate insertible leaves heretofore in use are dispensed with, and the table ready at any moment to be extended without the least difficulty and quickly returned into normal position. For extension-tables of greater length, a storage-box and extension-leaf are arranged at each end of the table.

We are aware that extension-tables have
 30 heretofore been made with flexible tops made of slats, and bands or straps connecting said slats, the tops being rigidly connected to the table at one end and wound upon a shaft or drum arranged in the opposite end of the table, and we therefore do not claim these features, broadly.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

40 1. The combination of a table having extension-slides, a storage-box, a roller in said storage-box, an extension-leaf formed of longitudinal straps or bands attached to the main

portion of the table, and of transverse strips attached to said straps or bands, said strips 45 diminishing gradually in width from the main portion to said roller, substantially as set forth.

2. The combination of a table having extension-slides, an extension-leaf formed of 50 longitudinal straps or bands, and transverse strips attached thereto, a roller adapted to wind up or unwind the extension-leaf, a transverse rail, and means for raising or lowering the rail, so as to raise the extension-leaf to a 55 level with the main portion of the table or lower the same for winding it up, substantially as set forth.

3. The combination of a table having extension-slides, an extension-leaf formed of 60 longitudinal straps or bands, and transverse strips attached to said bands, mechanism for winding up or unwinding the extension-leaf, a storage-box inclosing said winding-up mechanism, a transverse rail located below the 65 point where the leaf leaves the storage-box, and means for raising or lowering said transverse rail, substantially as set forth.

4. The combination of a table having extension-slides, an extension-leaf formed of 70 longitudinal straps or bands, and transverse strips attached to said bands, a roller for winding up or unwinding the extension-leaf, a storage-box inclosing said roller, a transverse rail having segmental bottom recesses, 75 a supporting-piece having anti-friction rollers, and a fulcrumed lever connected to the transverse rail, substantially as set forth.

In testimony that we claim the foregoing as our invention we have signed our names in 80 presence of two subscribing witnesses.

EMIL NEUMER.
 MARTIN DERX.

Witnesses:

PAUL GOEPEL,
 SIDNEY MANN.