

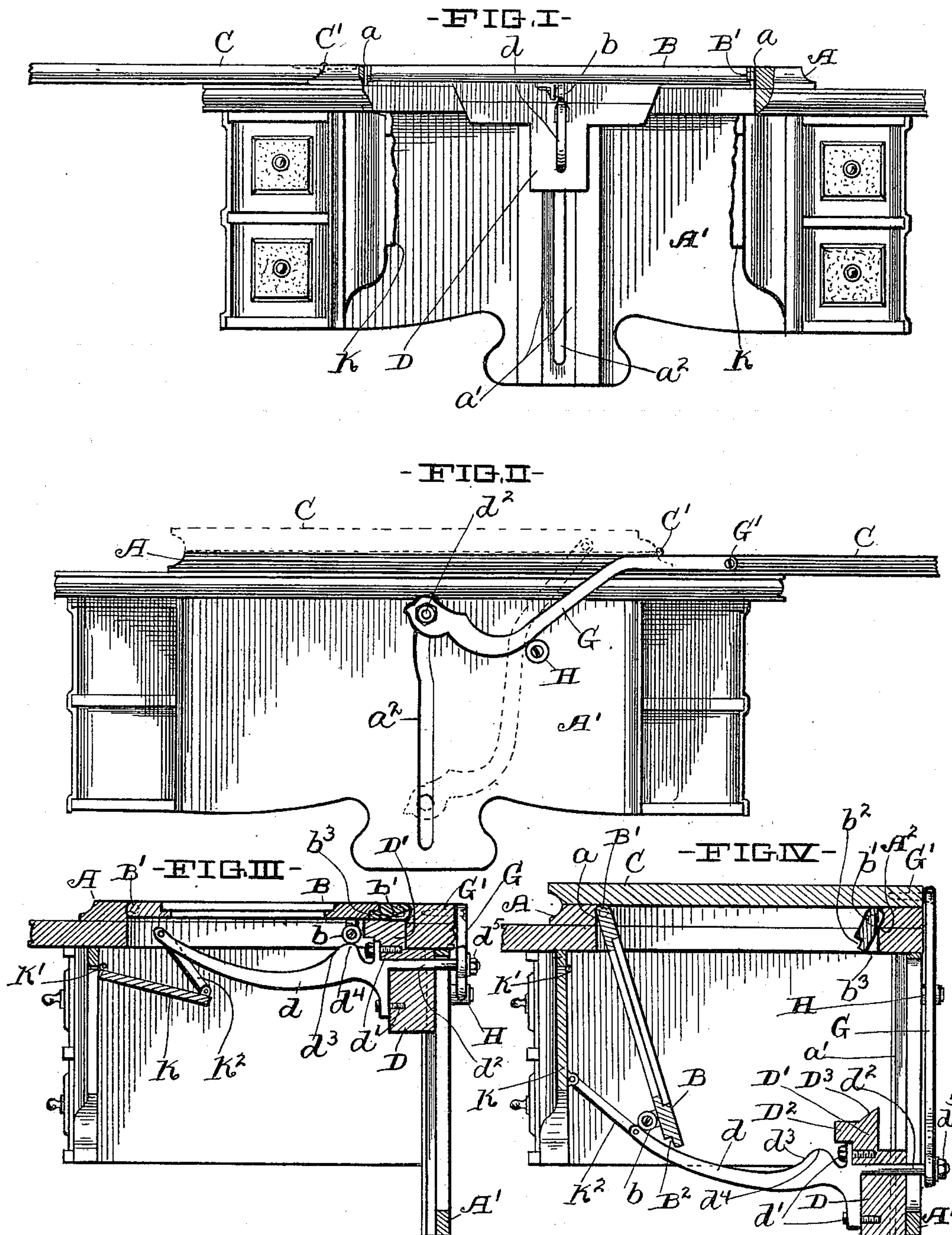
No. 607,862.

Patented July 26, 1898.

T. KUNTZ & A. EIBEN.
SEWING MACHINE TABLE.

(Application filed Dec. 20, 1897.)

(No Model.)



WITNESSES

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SEWING-MACHINE TABLE.

SPECIFICATION forming part of Letters Patent No. 607,862, dated July 26, 1898.

Application filed December 20, 1897. Serial No. 662,726. (No model.)

To all whom it may concern:

Be it known that we, THEODOR KUNDTZ and ANDREW EIBEN, of Cleveland, Cuyahoga county, Ohio, have invented certain new and useful Improvements in Tables or Cabinets for Sewing-Machines, &c.; and we 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 pertains to make and use the same.

Our invention relates to improvements in tables or cabinets for sewing-machines, &c.

The primary object of this invention is to provide novel and meritorious mechanism for actuating the tilting leaf that bears the sewing-machine head or other machine; and the invention consists in certain features of construction and combinations and arrangement of parts hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure I is a front side elevation of the upper portion of a table or cabinet embodying our invention, and in this figure portions are broken away and in section to more clearly show the construction. Fig. II is a rear side elevation of the same. Fig. III is an end elevation, mostly in vertical section, on line III III, Figs. I and II. Fig. IV corresponds with Fig. III, except that in this figure the load-carrying leaf is in its downwardly-tilted position and the mechanism instrumental in the elevation or actuation of the said leaf is in a corresponding position.

Referring to the drawings, A designates the top of the table or cabinet. Top A is provided centrally with a rectangular opening *a*, that extends through the top. A vertically-tilting leaf B is arranged to enter and occupy the said opening and is horizontally hinged or pivoted at its forward end at B' to and longitudinally of top A at the forward end of opening *a*. Member B is known as the "load-bearing leaf," that carries the sewing-machine head or other machine, (not shown,) of the table or cabinet. When the machine is not in use, leaf B is tilted downwardly below top A, as shown in Fig. IV, and the said leaf is again tilted upwardly or elevated into opening *a* when the machine is required for use.

The said leaf B is operatively connected with the lifting leaf C, that is horizontally hinged at one end, as at C', to and transversely of the left-hand end of top A, and the arrangement of parts is such that when said leaf C is in a horizontal position and forms a leftward extension of top A leaf B is in its upwardly-tilted or elevated position, and when leaf C closes opening *a* and rests upon top A leaf B is in its downwardly-tilted position, and the said leaf B is elevated or lowered according as the lifting leaf C is tilted to the left or right.

The novel and meritorious mechanism employed in establishing operative connection between leaf B and leaf C comprises, preferably, the following:

The cabinet or table at the rear is provided with a back A'. Back A' at its central portion is provided with a vertical or upright slideway *a'*. A slide D, that is composed, preferably, of wood, engages and is adapted to reciprocate endwise of (up and down) the said slideway. Slide D is provided with a forwardly-projecting arm *d*, that extends in under and transversely of the central portion of the load-carrying leaf B. Arm *d* consists, preferably, of a metallic bar, that is rigidly and removably secured to slide D, preferably by means of screws *d'*. Said arm *d* is provided at its rear end with a rearwardly-projecting and horizontally-arranged stud *d*², that extends through the slide and through back A' and is operatively connected at the outer or rear side of the said back with one end of a lever G, that has its opposite end pivoted horizontally to and transversely of leaf C, as at G'—that is, one end of the said lever is operatively connected with leaf C, and the lever's other end is mounted upon the aforesaid stud *d*², and the lever at any suitable point between its ends and preferably near its central portion rests upon a roller H, that is suitably secured to the rear side of back A' and serves as a fulcrum for the lever. A nut *d*³, mounted upon stud *d*² at the outer side of the lever, prevents disconnection of the lever from the slide. Back A' is suitably slotted, as at *a*², to accommodate the location of the aforesaid stud during the descent and

elevation of the slide. The load-carrying leaf B is provided upon its under side at its rear end and central portion with a roller b , that rests upon arm d , and it is obvious that the said leaf is lowered or tilted upwardly according as the slide D and its lifting-arm are lowered or elevated. In Figs. I and III the said slide is shown in its upper position, and in Fig. IV the slide is shown in its lower position. The arrangement of the operative connection between the said slide and leaf C is such that the slide and its arm d and the engaging load-carrying leaf are in their elevated position when the said leaf C is in its open position, wherein it forms, as already indicated, an extension of the top of the table or cabinet, and the said slide and load-carrying leaf lower by gravity when the lifting leaf is tilted from its open position to the right and over the opening in the aforesaid top. The trend of the lifting-lever G is preferably such that the lever will perform its function efficiently and easily. The slide-arm d at the forward side of and near the slide is provided with an upwardly and rearwardly extending incline d^3 , that has the arrangement required to render it capable of lifting roller b and the connected leaf B into their extreme upper position, and the said arm at the rear of the said incline is provided with a rest d^4 , upon which the roller, and consequently the lifting leaf, have bearing when the said leaf is in its upwardly-tilted position.

Leaf B, when the same is in its upwardly-tilted position, does not entirely close the rear portion of the opening a in the top of the table or cabinet, and the said rear portion of the said opening is closed by a supplementary leaf b , that is arranged to enter and occupy the rear portion of the said opening at the rear of leaf B and is horizontally hinged or pivoted at its ends, as at b' , to and longitudinally of top A. During the lowering of leaf B the supplementary leaf tilts downwardly by gravity, as shown in Fig. IV, and slide D at its forward side and forward of the back A' of the table or cabinet is provided with an upwardly-projecting member D', that has the arrangement required to render it capable during the elevation of the slide to engage the aforesaid supplementary leaf and tilt the said leaf upwardly into the leaf's horizontal position, wherein the said leaf, as already indicated, closes the rear portion of the aforesaid opening a . The said arm D', to facilitate its operation of lifting leaf b , has a rearwardly and upwardly extending incline D³, arranged to engage the leaf when the latter is in its depending position at the junction of the forward edge and under side of the leaf.

Leaf b is prevented in lowering from dropping into a perpendicular position by a shoulder A², (see Fig. IV,) that is formed upon top A at the rear of the pivoted end of the leaf and arranged to form a stop for arresting the downward movement of the leaf before the latter has dropped into a perpendicular posi-

tion, so that the said leaf in its lower position inclines forwardly, and in the said position there is between the leaf and the adjacent portion of the top a space that is entered by the incline-bearing portion of the slide-arm D', and the said leaf is cut away on its under side, as at b^3 , to accommodate the location of the incline-bearing portion of the aforesaid arm D' when the slide is in its elevated position. The load-carrying leaf B has its rear and free end rabbeted upon its under side, as at B³, and leaf b has its forward or free end rabbeted upon its upper side, as at b^2 , and the rabbeted end of leaf B rests upon the rabbeted end of leaf b in the upwardly-tilted position of the said leaves, and consequently the arrangement of parts is such as to accommodate the rabbeted construction of the aforesaid leaves, and the slide-arm D' is extended forwardly, as at D², and the said forward portion D² of the arm extends in under and assists in supporting both of the aforesaid leaves in their elevated position.

The panel K, that is arranged to close the forward side of the space below the top of the table or cabinet when the load-carrying leaf is in its downwardly-tilted position, constitutes a guard not only for the protection of the machine or mechanism (not shown) carried by the said leaf, but also improves the appearance of the table or cabinet. The said panel is horizontally hinged at its upper end, as at K', to the aforesaid top and is operatively connected at its lower end by means of a link K' with the arm d of the aforesaid slide, and the arrangement of parts is such that said panel is tilted rearwardly and upwardly when the said slide is actuated into its elevated position, and is lowered into a perpendicular position as shown in Fig. IV, when the slide and the load-carrying leaf are lowered.

What we claim is—

1. In a table or cabinet of the character indicated, the combination with the top A having an opening therethrough, the vertically-tilting load-carrying leaf B hinged or pivoted to the forward portion of the said top horizontally and longitudinally of the cabinet and arranged to occupy the forward portion of the opening in the leaf's upwardly-tilted position, another leaf arranged to occupy the rear or remaining portion of the opening and hinged or pivoted horizontally and longitudinally of the cabinet to the rear portion of the aforesaid top, and the lifting leaf C hinged horizontally and transversely of the cabinet at the top's left-hand end; of a slide movable up and down below the top's rear portion and having an arm extending forwardly in under the load-carrying leaf and having an upwardly-projecting member arranged to support the supplementary leaf in the elevated position of the slide, a slideway for the slide, an operative connection between the slide and the aforesaid lifting leaf, and a roller resting upon the aforesaid slide-

arm and supported from the load-carrying leaf, substantially as and for the purpose set forth.

2. In a table or cabinet of the character indicated, the combination with the top A having an opening therethrough, a vertically-tilting load-carrying leaf B pivoted to the top's forward portion horizontally and longitudinally of the cabinet and arranged to enter the aforesaid opening in the leaf's upwardly-tilted position, and the lifting leaf C hinged horizontally at one end of the top and transversely of the cabinet; of a slide movable up and down below the rear portion of the top and having an arm extending forwardly in under the load-carrying leaf, a slideway for the slide, a roller resting upon the said arm and supported from the load-carrying leaf, a lever operatively connecting the slide with the lifting leaf and arranged at the rear of the table or cabinet, and a suitably-supported bearing instrumental in supporting the said lever and accommodating the endwise movement of the lever, all arranged and operating substantially as shown, for the purpose specified.

3. In a table or cabinet of the character indicated, the combination with the top A having an opening therethrough, a vertically-tilting load-carrying leaf B pivoted to the top's forward portion horizontally and longitudinally of the cabinet and arranged to enter the aforesaid opening in the leaf's upwardly-tilted position, and the lifting leaf C hinged horizontally and transversely of the cabinet at one end of the top; of a slide movable up and down below the rear portion of the top and having an arm extending forwardly in under the load-carrying leaf, a slideway for the slide, a roller resting upon the said arm and supported from the load-carrying leaf, a roller secured to the rear side of the aforesaid back, a lever having bearing and slidable upon the said roller and having its two ends pivoted horizontally to the slide and lifting leaf, respectively, and the trend of the said lever being such that the slide is lowered or elevated according as the lifting

leaf is tilted to the right or to the left, substantially as and for the purpose set forth. 50

4. In a table or cabinet of the character indicated, the combination with the top A having an opening therethrough, the vertically-tilting load-carrying leaf B hinged or pivoted to the top's forward portion horizontally and longitudinally of the cabinet and arranged to occupy the aforesaid opening in the leaf's upwardly-tilted position, and the lifting leaf C hinged horizontally and transversely of the cabinet at one end of the top; of a wooden slide movable up and down below the top's rear portion and having a metallic arm extending forwardly in under the load-carrying leaf, which arm is provided with a stud extending rearwardly through the aforesaid back, a slideway for the said slide, a roller secured to the said back, and a lever having bearing upon the said roller and embracing the rear end of the stud at one end and having its opposite end pivoted to the lifting leaf, and a nut mounted upon the said stud at the outer side of the lever, all arranged and operating substantially as shown, for the purpose specified. 55 60 65 70

5. In a table or cabinet of the character indicated, the combination with the table A having the opening *a*, the vertical load-carrying leaf B provided upon its under side with roller *b*, the vertically-tilting supplementary leaf *b* cut away at *b*³ upon its under side, and the hinged lifting leaf C; of the slide D having the forwardly-extending arm *d*, and the upwardly-projecting arm D' provided with the incline D³, the slideway for said slide, and an operative connection between the slide and the aforesaid lifting leaf, all arranged and operating substantially as and for the purpose specified. 75 80 85

In testimony whereof we sign this specification, in the presence of two witnesses, this 8th day of December, 1897. 90

THEODOR KUNDTZ.
ANDREW EIBEN.

Witnesses:

C. H. DORER,
ELLA E. TILDEN.