

No. 654,738.

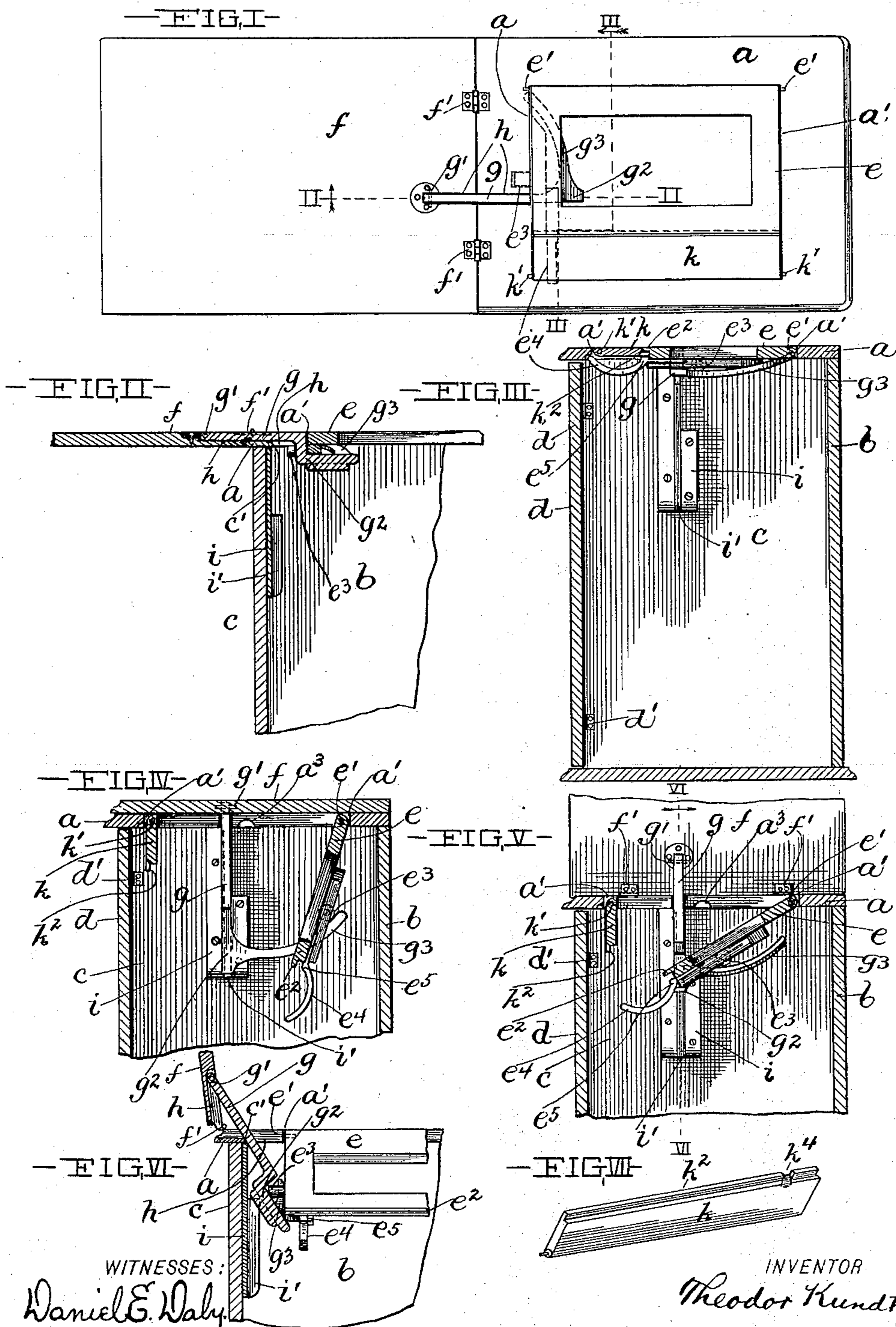
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T. KUNTZ.

CABINET FOR SEWING MACHINES, &c.

(Application filed May 22, 1899.)

(No Model.)



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UNITED STATES PATENT OFFICE.

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CABINET FOR SEWING-MACHINES, &c.

SPECIFICATION forming part of Letters Patent No. 654,738, dated July 31, 1900.

Application filed May 22, 1899. Serial No. 717,846. (No model.)

To all whom it may concern:

Be it known that I, THEODOR KUNDTZ, a resident of Cleveland, county of Cuyahoga, and State of Ohio, have invented certain new and useful Improvements in Cabinets for Sewing-Machines, &c.; and I 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.

My invention relates to improvements in cabinets for sewing-machines, &c., comprising a load-carrying leaf that carries the machine or a portion of the latter and is tiltable vertically below the top of the cabinet and a lifting leaf hinged to the cabinet-top and operatively connected with the load-carrying leaf.

The object of my present invention is to provide an improved and simple and durable operative connection between the lifting leaf and the load-carrying leaf.

With this object in view and to the end of realizing other results hereinafter referred to my invention consists in certain features of construction and combinations of parts hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure I is a top plan of a cabinet embodying my invention. Fig. II is a longitudinal vertical section of a portion of the cabinet on line II II, Fig. I, looking rearwardly. Fig. III is a transverse vertical section of the cabinet on line III III, Fig. I, looking leftward. Fig. IV is a transverse vertical section of a portion of the cabinet and corresponds with Fig. III, except that in Fig. IV the load-carrying leaf is shown in its downwardly-tilted position and the lifting leaf is closed down over the opening in the top of the cabinet. Fig. V is a transverse vertical section corresponding with Fig. IV, except that in Fig. V the load-carrying leaf and the lifting leaf are shown in an intermediate position. Fig. VI is a front side elevation, mostly in section, on line VI VI, Fig. V. Fig. VII is a view in perspective of the leaf *k*.

Referring to the drawings, *a* designates the top of the cabinet; *b*, the cabinet's back; *c*, the left-hand end wall of cabinet, and *d* a

door forming the forward side of the cabinet and hinged to the wall *c* at *d'*. A vertical quadrangular opening *a'* is formed in centrally of and extends through the top *a*.

e designates the vertically-tilting load-carrying leaf that, when the cabinet is fitted up as a sewing-machine cabinet, bears the sewing-machine head. (Not shown.) Leaf *e* in its elevated or upwardly-tilted position closes the central and rear portions of opening *a'*. Leaf *e* at or near its rear edge is pivoted horizontally and longitudinally of the cabinet, as at *e'*, to the top *a*. Leaf *e* is operatively connected with the lifting leaf *f*, that is hinged horizontally and transversely of the cabinet, as at *f'*, to the left-hand end of the cabinet-top, and the axial line of the leaf *f* is arranged at right angles to the axial line of the leaf *e*. The arrangement of parts is such that when leaf *e* occupies the opening *a'* leaf *f* forms a leftward extension of the top *a*, as shown in Figs. I, II, and III, and when the said leaf *f* is tilted to the right over the opening *a'* leaf *e* is in its downwardly-tilted position, as shown in Fig. IV.

The operative connection between the leaf *f* and the leaf *e* forms an important feature of my invention and comprises, preferably, a metallic lever *g*, that is pivoted at one end, as at *g'*, to and horizontally and transversely of the leaf *f* a suitable distance from the hinged extremity of the said leaf. Lever *g*, arranged centrally between and longitudinally of the rear and forward edges of the leaves *f* and *e*, extends from leaf *f* over the upper end of the wall *c* of the cabinet and has its free end offset as required, as at *g''*, to render the said end capable of extending in under and bearing the load-carrying leaf *e*. The lever *g* extends not only in under the leaf *e*, but longitudinally of the axial line of the said leaf. The upper end of the wall *c* forms a fulcrum *c'* for the lever *g*, as shown very clearly in Fig. VI, and the leaf *f* and the top *a* are recessed and cut away at *h*, as required to accommodate the location and operation of the said lever. It will be observed that the said lever is located, preferably, about centrally between the forward side and rear side of the cabinet, so as to render it capable of extending under the forward

portion of the leaf *e*. The offset portion or free end of the lever *g* is provided with a rearwardly-extending curved arm *g*³, that extends under the left-hand portion of the leaf *e* and beyond the left-hand edge of the said leaf, as shown in Fig. I, and the said leaf at its left-hand end is provided with a roller *e*³. The arrangement of the parts and the trend of the arm *g*³ are such that in the downwardly-tilted or lowermost position of the leaf *e* the roller *e*² will rest upon the rear end of the arm *g*³, as shown in Fig. IV, that the said roller rides forwardly upon the said arm during the elevation of the said arm from the latter's lowermost position, that the elevation of the said arm accompanies the actuation of the leaf *f* from the latter's opening-closing position, that when the leaf *e* has been lifted about half-way the offset portion or free end of the lever *g* bears the said leaf *e* at the latter's left-hand end, as shown in Figs. V and VI, and that the said portion or end of the lever bears the said leaf in the latter's upwardly-tilted and opening-closing position, as shown in Fig. II.

The lever *g* and its arm *g*³ are made, preferably, in one piece, and the construction is obviously simple, durable, and convenient.

The wall *c* is preferably provided upon its inner side with a guide-plate *i*, that is secured to the said wall in any approved manner and has a vertically-arranged channel *i*', arranged to be engaged by and guide or steady the free end of the lever *g*, as shown in Figs. IV and VI, during the lifting of the leaf *e*.

The sewing-machine head or other machine (not shown) that is mounted upon and secured to the leaf *e* requires the extension of the opening *a'* forwardly of the path of the said leaf to accommodate the location of the said head or machine in actuating the leaf *e* from one of its extreme positions into its other extreme position, and the leaf *k* for closing the said forward extension or forward portion of the opening in the upwardly-tilted position of the leaf *e* is provided. The leaf *k* is pivoted horizontally and longitudinally of the cabinet, as at *k'*, to the forward portion of the top *a* and has its rear edge provided with a tongue *k*², that extends longitudinally of the leaf *k* and is overlapped in the elevated position of the leaves *e* and *k* by a tongue *e*², formed upon the forward edge of the leaf *e*. When the leaf *e* is tilted downwardly, the leaf *k* tilts downwardly by gravity, and a forwardly-projecting arm *e*⁴ of the leaf *e* is arranged to extend in under and engage and lift the leaf *k* when the leaf *e* is tilted upwardly from the latter's lower position. The leaf *k* is shown detached in Fig. VII, and the said leaf is cut away at its tongue, as at *k*⁴, to accommodate the location and operation of the arm *e*⁴, that at its inner end has a shoulder *e*⁵ arranged to engage the under side of the tongue of the said leaf in the upwardly-tilted position of the leaves *e* and *k*, as shown

in Fig. III. Lever *g*, through the medium of its arm *g*³ and the roller of the leaf *e*, supports the latter and its load in the upwardly-tilted position of the said leaf, and the forwardly-projecting arm of the leaf *e* is not only instrumental in tilting the leaf *k* upwardly, but affords bearing for the said leaf in the latter's upwardly-tilted position. The top *a* is cut away also upon its under side, as at *a*³, to accommodate the location of the roller *e*³ in the upwardly-tilted position of the leaf *e*.

What I claim is—

1. In a cabinet of the character indicated, the combination, with a cabinet-top having an opening therethrough, the vertically-tilting load-carrying leaf *e* provided with a roller *e*³, and hinged or pivoted at or near its rear edge, horizontally and longitudinally of the cabinet, to the aforesaid top and arranged to occupy the aforesaid opening in its upwardly-tilted position, and the lifting leaf hinged, horizontally and transversely of the cabinet, to one end of the cabinet-top and at right angles to the axial line of the load-carrying leaf, of a lever pivoted at one end, to and transversely of the lifting leaf centrally between the rear and forward edges of the said leaf, which lever extends in under the load-carrying leaf between the rear and forward edges of the load-carrying leaf, and is provided, below the load-carrying leaf, with a rearwardly-extending arm, and the said lever and its aforesaid rearwardly-extending arm having such arrangement and trend, relative to the aforesaid roller, that the lever-arm shall engage the roller from below and be instrumental in lifting the load-carrying leaf part of the way from the latter's lower position, and thereupon the lever shall directly engage the said leaf from below and complete the lifting operation.

2. The combination of the cabinet-top provided with an opening *a'*; a vertically-tiltable load-carrying leaf *e* having its left-hand end provided with a roller *e*³, which leaf is hinged to the top, at the rear of the said opening, horizontally and longitudinally of the cabinet; the lifting leaf hinged, horizontally and longitudinally of the cabinet, to the left-hand end of the top; the lever *g* pivoted to and horizontally and transversely of the lifting leaf between the rear and forward edges of the said leaf, and extending to and offset, as at *g*², in under the load-carrying leaf and having its offset portion provided with a rearwardly-extending arm *g*³, and the left-hand end portion of the cabinet forming a fulcrum or bearing for the said lever, all arranged and operating substantially as shown, for the purpose specified.

3. In a cabinet of the character indicated, the combination with the cabinet-top having an opening *a'*; a vertically-tilting leaf *e* having the roller *e*³ and the arm *e*⁴; the vertically-tilting leaf *k* cut away at *k*⁴, and the lifting leaf *f*; of the lever *g* provided with the offset *g*² and the arm *g*³, and the guide-

plate i having the vertically-arranged channel i' , all arranged and operating substantially as shown, for the purpose specified.

4. In a cabinet of the character indicated,
5 the combination of the top having an opening a , the suitably-actuated vertically-tilting load-carrying leaf having the tongue e^2 and the arm e^4 that is provided with the shoulder e^5 , and the vertically-tilting leaf k having the

tongue k^2 and cut away at k^4 , all arranged and operating substantially as shown, for the purpose specified.

Signed by me at Cleveland, Ohio, this 6th day of April, 1899.

THEODOR KUNDTZ.

Witnesses:

C. H. DORER,

A. H. PARRATT.