No. 619,319. Patented Feb. 14, 1899.

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CABINET FOR SEWING MACHINES, &c.

(Application filed Apr. 1, 1898.)

(No Model.)

Fig. 1

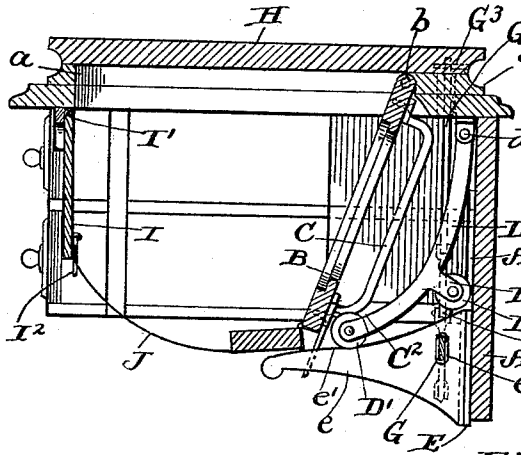


Fig. 2

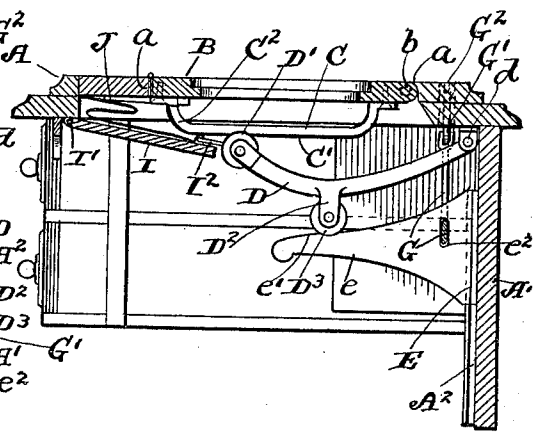


Fig. 3

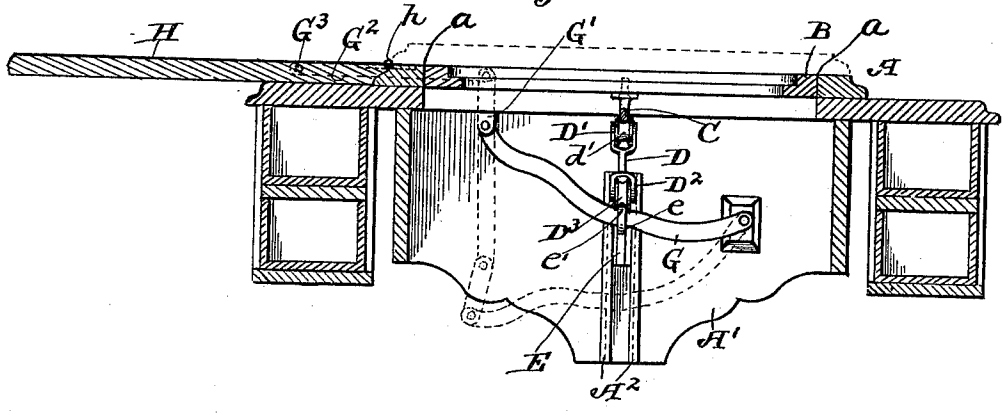
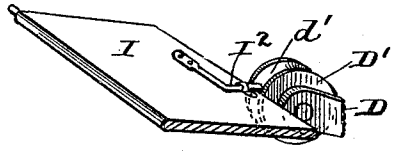


Fig. 4



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UNITED STATES PATENT OFFICE.

THEODOR KUNDTZ AND JOSEPH GEDEON, OF CLEVELAND, OHIO.

CABINET FOR SEWING-MACHINES, &c.

SPECIFICATION forming part of Letters Patent No. 619,319, dated February 14, 1899.

Application filed April 1, 1898. Serial No. 676,149. (No model.)

To all whom it may concern:

Be it known that we, THEODOR KUNDTZ and JOSEPH GEDEON, of Cleveland, Cuyahoga county, State of Ohio, have invented certain new and useful Improvements in 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 cabinets for sewing-machines, &c.; and it appertains more especially to the mechanism employed for lowering and elevating the vertically-tiltable load-carrying leaf of the cabinet.

The primary objects of our invention are to provide simple and durable mechanism for raising and lowering the aforesaid leaf, to provide a bearing for the said leaf centrally between the ends of the leaf, and to facilitate or render easy the actuating of the leaf and load.

With these objects in view our invention consists in certain features of construction and combinations of parts hereinafter described, and pointed out in the claims.

Our invention involves also other meritorious features of construction hereinafter particularly referred to.

In the accompanying drawings, Figure 1 is a right-hand end elevation, mostly in section, of a table or cabinet embodying our invention. In this figure the load-carrying leaf is shown in its downwardly-tilted position. Fig. 2 is a right-hand end elevation, and in this figure the load-carrying leaf is shown in its elevated or upwardly-tilted position. Fig. 3 is a front side elevation, mostly in section, and in this figure the load-carrying leaf is in its upwardly-tilted position. Fig. 4 shows the projecting spring of panel wedged into the groove of the roller D′ of lever D.

Referring to the drawings, A designates the top of the cabinet. Top A has a centrally-located opening *a*, extending vertically therethrough and arranged to be occupied by the load-carrying leaf B, that is hinged or pivoted horizontally and longitudinally of the cabinet, as at *b*, to the rear portion of the said top at the rear end of the said opening. Leaf B in its upwardly-tilted position occupies opening *a*, and when it is tilted downwardly carries the machine or load borne thereby below the top A.

To the under side of leaf B is secured a bar C, that is arranged transversely of the said side of the said leaf. The under side of the main and central portion of the said bar is horizontal, or approximately so, and the said horizontal surface (marked C′ in Fig. 2) terminates at its forward end in the forwardly and upwardly extending incline C^2, formed by the lower surface of the forward end of the said bar. Below bar C is a vertically-tiltable lever D, that is arranged transversely of the cabinet and is fulcrumed at its rear end at *d* and horizontally and longitudinally of the cabinet to the under side of the rear portion of the top A. Member D is a lifting-lever that participates, as will hereinafter more fully appear, in the lifting of the load-carrying leaf from the latter's lower position and has its forward end provided with a roller D′, that is arranged to engage and ride upon the under side of the aforesaid bar C.

Lever D at its central portion is provided with a depending arm D^2, that at its lower end bears a roller D^3, that is arranged to rest and ride upon a rearwardly and upwardly extending incline *e′*, formed upon a forwardly-projecting arm *e* of the vertically-movable slide E, that engages vertical slideways A^2, formed upon the perpendicular back A′ of the cabinet. The said slide is elevated or lowered, as will hereinafter appear, and, in conjunction with the aforesaid lifting-lever D, is instrumental in controlling the elevation and lowering of the load-carrying leaf. The arrangement of parts is such, preferably, that in the elevated position (shown in Fig. 1) of the said leaf roller D′ is at or rearward of the incline C^2 of bar C and roller D^3 is upon the lower portion of the slide's incline *e′*, so that when the said leaf is tilted downwardly roller D′ rides forward upon incline C^2 and roller D^3 rides upwardly upon incline *e′*, and the said leaf in its lower position (shown in Fig. 2) rests against roller C^2, that rests upon the slide's incline *e′*.

The rear portion of slide-arm *e* has a lateral slot e^2, through which extends the slide-actu-

ating lever G, that is arranged longitudinally of the cabinet, forward of the back of the cabinet, and is fulcrumed at its right-hand end horizontally and transversely of and to the said back. The said lever at its left-hand end is operatively connected, by means of a short link G′, with the right-hand end of a rod G^2, that at its opposite or left-hand end is pivoted at G^3 horizontally and transversely of and to the lifting leaf H of the cabinet, which leaf is hinged horizontally and transversely of the cabinet at *n* to the left-hand end of the top. The arrangement and trend of the slide-actuating lever are such that it will properly control the movement of the engaging slide, and the arrangement of parts is such that when the load-carrying leaf B is in its elevated position the lifting leaf H forms a leftward extension of the top, and the slide, and consequently the load-carrying leaf, is lowered when the said lifting leaf is tilted to the right and over the opening in the cabinet-top.

A panel I is hinged or pivoted at I′, horizontally and longitudinally of the cabinet, to the forward portion of the top, and a curtain J has its opposite ends attached to the said panel and the aforesaid load-carrying leaf, respectively. The cabinet's back protects the machine from the cabinet's rear side when the machine (not shown) is lowered below the cabinet's top, and the aforesaid panel and attached curtain protect the machine from the forward side of the cabinet. When the load-carrying leaf is in its upwardly-tilted position, it will be observed (see Fig. 2) that the curtain is folded together and the panel is tilted upwardly and rearwardly out of the way of the operator. The said panel, to catch and hold it in its upwardly-tilted position, is provided with a rearward spring projection or member I^2, that is arranged to be wedged into the peripheral and annular groove *d*′ of roller D′ and preferably upwardly into the said groove beyond the center or axis of the roller in the upwardly-tilted position of the load-carrying leaf, as shown more clearly in Fig. 4, and of course the said spring projection, and consequently the panel, is released upon tilting the load-carrying leaf downwardly.

What we claim is—

1. In a cabinet of the variety indicated, the combination of the cabinet-top having an opening extending vertically therethrough, a vertically-tiltable leaf supported from the top and arranged to occupy the said opening in its upwardly-tilted position, a bar arranged transversely of the under side of and supported from the said leaf and having an upwardly and forwardly extending incline at its forward end, a vertically-tilting lever arranged below the said bar and transversely of the cabinet and fulcrumed at its rear end and having its forward end provided with a roller engaging the under side of the aforesaid bar, the back of the cabinet provided with a slideway extending up and down, a slide engaging the said slideway and provided with a forwardly-projecting arm having a rearwardly and upwardly extending incline, a roller supported from the aforesaid lever and engaging the said last-mentioned incline, a lever operatively connected with the slide, the leaf hinged transversely of the cabinet at the left-hand end of the top, and a rod pivoted at one end to the said leaf and operatively connected at its other end with the aforesaid slide-engaging lever, substantially as and for the purpose set forth.

2. In a cabinet of the variety indicated, the combination of the cabinet-top having an opening extending vertically therethrough; a load-carrying leaf horizontally hinged or pivoted to the said top at the rear end of the said opening, and arranged to occupy the said opening in its upwardly-tilted position; the horizontally-arranged bar supported from the central portion and arranged transversely of the under side of the said leaf; a lever arranged below the said bar and transversely of the cabinet and fulcrumed at its rear end; a roller supported from the forward end of the said lever and arranged to engage the under side of the aforesaid bar; the cabinet-back having a slideway extending up and down; a slide engaging the said slideway and slotted laterally and provided with an upwardly and rearwardly extending incline; a roller supported from the aforesaid lever and arranged to engage the said incline; a lever extending through the aforesaid slot; the lifting leaf hinged transversely of the cabinet at one end of the cabinet; the rod pivoted to the said lifting leaf, and a short link operatively connecting the said rod with the aforesaid slide-engaging lever, and the trend of the aforesaid bar, incline and levers, and the arrangement of parts, being such, that the load-carrying leaf is tilted downwardly or upwardly according as the lifting leaf is actuated in the one or the other direction, substantially as shown, for the purpose specified.

3. In a cabinet of the variety indicated, the combination of the cabinet-top having an opening extending vertically therethrough, a load-carrying leaf horizontally hinged or pivoted to the top and arranged to occupy the said opening in its upwardly-tilted position, a bar supported and arranged transversely of the under side of and supported from the said leaf, a vertically-tiltable lever arranged below the said bar and transversely of the cabinet, a roller supported from the forward end of the said lever and engaging the under side of the aforesaid bar, the cabinet-back having a slideway extending up and down, a slide engaging the said slideway, and having an arm provided with an incline, a roller engaging the said incline and supported from the aforesaid lever, means for actuating the slide, and the trend of the aforesaid bar and incline and the arrangement of parts being such that the load-carrying leaf shall be

tilted downwardly or upwardly according as the slide is lowered or elevated, substantially as set forth.

4. In a cabinet of the variety indicated, in combination with the suitably-supported vertically-tiltable load-carrying leaf, and a suitably-operated lever arranged below and in position to support the said leaf and provided with the peripherally and annularly grooved roller D′; of the hinged panel I provided with the spring projection I^2, all arranged and operating, substantially as shown, and for the purpose specified.

Signed by us at Cleveland, Ohio, this 7th day of March, 1898.

THEODOR KUNDTZ.
JOSEPH GEDEON.

Witnesses:
C. H. DORER,
ANNA H. PANATT.