

(No Model.)

2 Sheets—Sheet 1.

T. KUNDTZ & R. KOSCH.
SEWING MACHINE CABINET.

No. 541,554.

Patented June 25, 1895.

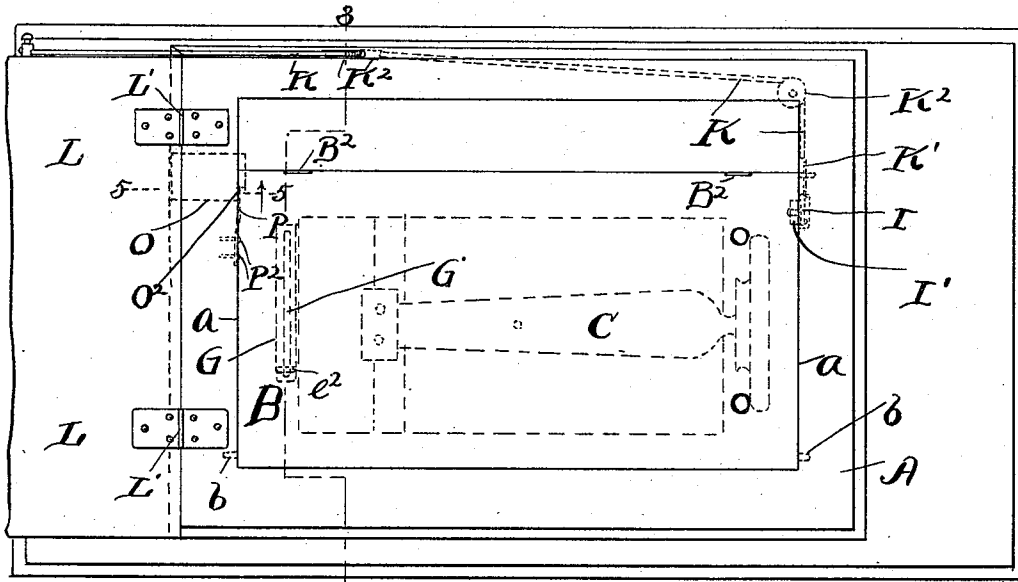


Fig. 1.

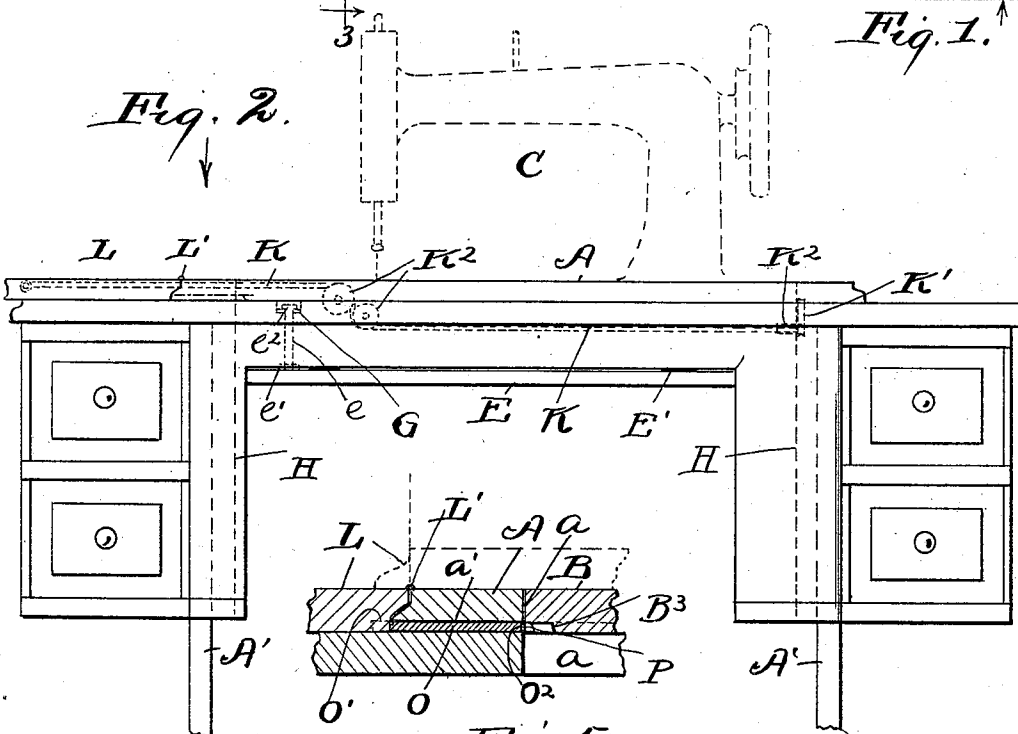


Fig. 2.

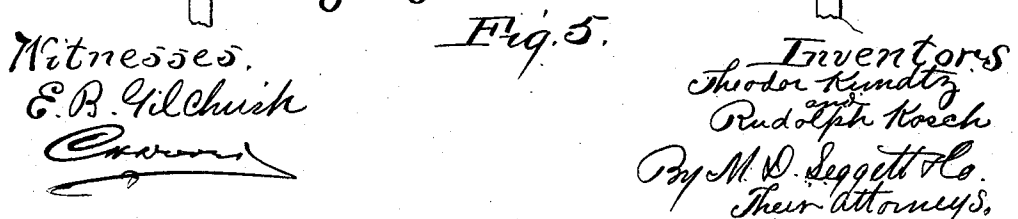


Fig. 5.

Witnesses,
E. B. Gilchrist
[Signature]

Inventors
Theodor Kundtz
Rudolph Kosch
By M. D. Seppelt & Co.
Their Attorneys.

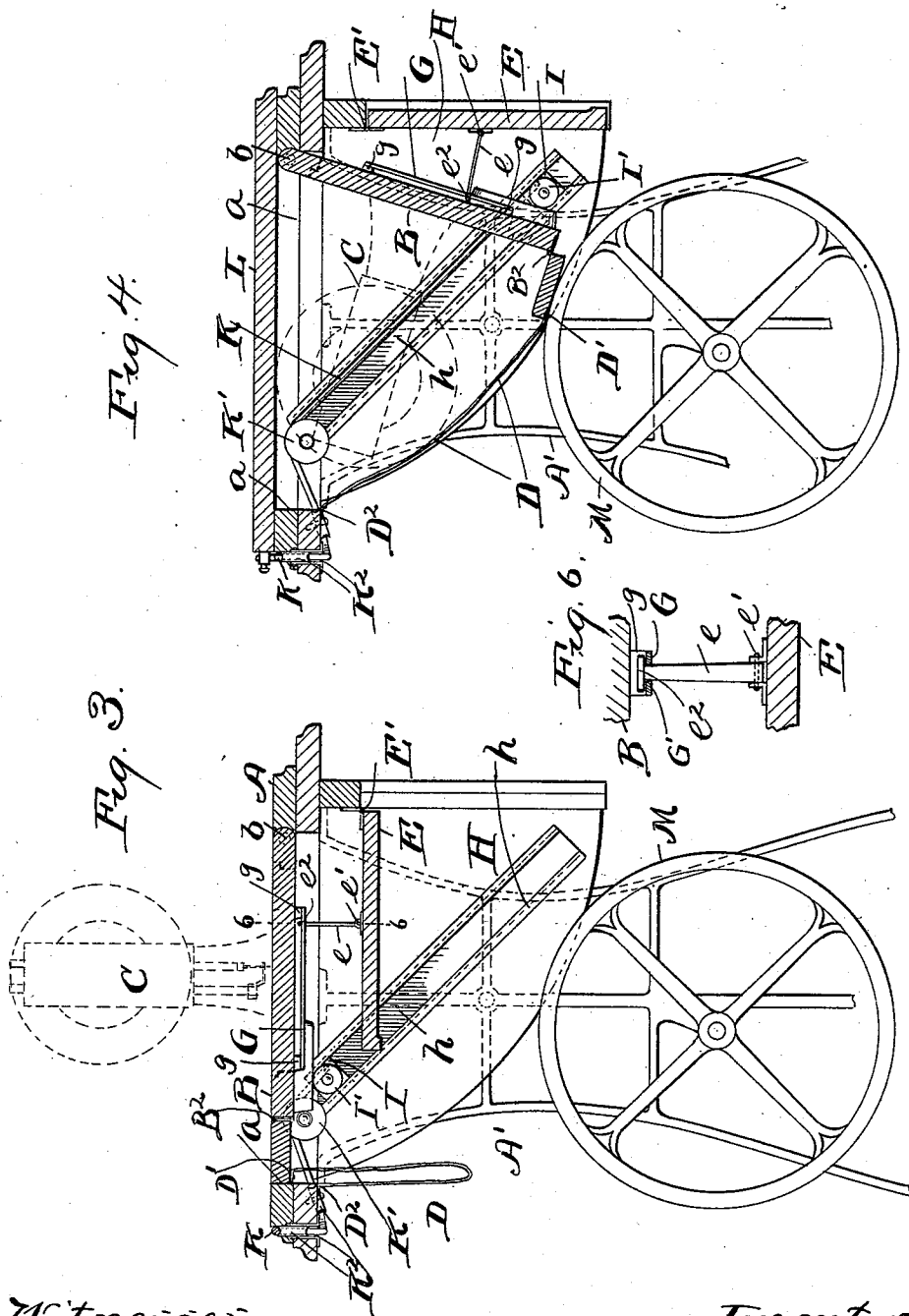
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2 Sheets—Sheet 2.

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Witnesses:
E. B. Gilchick
[Signature]

Inventors:
Theodor Kundtz
Rudolph Kosch.
By M. D. Seaggett & Co.
Attorneys.

UNITED STATES PATENT OFFICE.

THEODOR KUNDTZ AND RUDOLPH KOSCH, OF CLEVELAND, OHIO; SAID
KOSCH ASSIGNOR TO SAID KUNDTZ.

SEWING-MACHINE CABINET.

SPECIFICATION forming part of Letters Patent No. 541,554, dated June 25, 1895.

Application filed March 2, 1895. Serial No. 540,286. (No model.)

To all whom it may concern:

Be it known that we, THEODOR KUNDTZ and RUDOLPH KOSCH, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Sewing-Machine Cabinets; 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 sewing-machine-cabinets, wherein the frame or carrier, that bears, or is adapted to bear the sewing-machine-head, is hinged to or pivotally supported from the stationary part of the table of the cabinet, and in its normal or elevated position closes an opening provided centrally in the table and has its upper surface flush with the top surface of the table; and wherein said tilting-frame is operatively connected with a folding-leaf or section hinged to one end of the table, and wherein the arrangement of parts is such that, when said folding-leaf or section is closed down over the opening in the table, the sewing-machine-head-carrier shall tilt downwardly and carry the sewing-machine-head below the table, and when said folding-leaf or section is again brought into a position flush with the upper surface of the table, in which position it forms an extension of the table, the sewing-machine-head is again elevated as required preparatory to the operation of the sewing-machine.

Our present invention consists, primarily, in simple, durable and comparatively inexpensive mechanism establishing operative connection between the sewing-machine-head-carrier and the actuating folding-leaf, and the invention also consists in other features of construction, and combination of parts hereinafter described and pointed out in the claims.

In the accompanying drawings, Figure 1 is a top plan of a sewing-machine cabinet embodying our invention; and Fig. 2 is a front side elevation of the same, a portion of the folding leaf or hinged section of the table being broken away in said figures to reduce their size, and a sewing-machine head is shown in dotted lines in position upon the tilting sewing-machine head carrier. Fig. 3 is a left-

hand end elevation in section on line 3 3, Fig. 1. Fig. 4 is an end elevation, in section, corresponding with Fig. 3, excepting that in Fig. 4 the sewing-machine-head carrier is shown in its lowered or downwardly-tilted position. Fig. 5 is a vertical section on line 5 5, Fig. 1, showing more clearly means employed to assist in supporting the tilting sewing-machine carrier in its elevated position and for supporting the folding section of said carrier, showing in dotted lines the position of parts when the folding leaf or section of the table is closed down over the central opening in the table. Fig. 6 is a vertical section, in detail, on line 6 6, Fig. 3.

Referring to the drawings, A designates the stationary table of the cabinet, and A' represents the supporting-legs or frames. Table A is provided with a centrally-located opening α for receiving the sewing-machine-head-carrier B, which carrier consists, preferably, of a frame bearing the sewing-machine-head C and hinged to, or pivotally supported from, the table, as at b , in such a manner that said frame or carrier is adapted to tilt downwardly and carry the sewing-machine-head below the table of the machine downwardly through central opening α in said table.

Frame or carrier B, in its elevated position, has its upper surface flush with the upper surface of table A, as shown in Fig. 3, and said frame or carrier is shown in its downwardly-tilted position in Fig. 4.

The space which frame or carrier B, and the sewing-machine-head borne thereby, occupy when said head and carrier are in their downwardly-tilted position, is closed at the rear side by a curtain D, that, at its one end, is suitably attached, at D', to the rear portion of frame or carrier B, and, at its opposite end, is suitably attached, as at D², to the rear portion of the stationary part of the cabinet. Said space, at the forward side of the cabinet, when frame or carrier B is in its downwardly-tilted position, is closed by a panel E, that is suitably hinged at E' to the forward portion of the stationary part of the cabinet, and is operatively connected with frame or carrier B by means of a link e pivotally connected, at one end, with panel E, as at e' . Link e , at its opposite end, terminates in a slide e^2 (see

Figs. 3, 4, and 6), that engages and is adapted to move endwise of a slideway G, with which frame or carrier B, at one end, is provided, the slideway extending transversely of the frame or carrier, that is, forward and rearward of the cabinet. Slideway G is preferably formed by means of a metallic plate, whose inner surface forms the slideway and which surface is engaged by slide e^2 said plate being slotted longitudinally, as at G', to accommodate the location and operation of link e , and being suitably secured, at its ends, to blocks or members g depending from and rigid with frame or carrier B.

When frame or carrier B, and the sewing-machine-head borne thereby, are in their elevated position, as shown in Fig. 3, curtain D is folded together, and slide e^2 engages the forward end of slideway G, and link e holds panel E in the horizontal, or approximately horizontal, position shown.

As frame or carrier B, and the sewing-machine-head borne thereby, are tilted downwardly below the table of the machine, as shown in Fig. 4, curtain D unfolds and covers and protects the sewing-machine-head from the rear, and panel E is permitted to drop by gravity into a depending position, the peculiar connection of said panel with frame or carrier B, by means of the pivoted link e , slide and slideway e^2 , G, respectively, accommodating said movement of the panel without interrupting operative connection between the panel and frame or carrier B. Panel E, in its depending position, covers and protects the lowered sewing-machine-head and supporting-carrier, from the forward side of the machine, and renders the lower portion of said head invisible as desired. The ends of the space occupied by tilting-frame or carrier B and the sewing-machine-head, when said parts are in their downwardly-tilted position, are closed by stationary panels or walls H that are composed of wood and are rigid with the table and supporting-frames of the cabinet. One of said stationary panels or walls, upon its inner side, is provided with an inclined slideway h , that is shown extending from the lower forward portion of the respective panel or wall to the upper rearward portion of said wall or panel and is engaged by a slide I, to which a rope or cable K is suitably attached, said rope or cable leading from the slide upwardly to and over a guide sheave or pulley K' suitably supported at the upper end of slide way h , thence to and over any number of suitably-arranged guide-sheaves or pulleys K² to the rear edge of a folding-leaf or section L that is shown hinged to the left hand end of the table of the cabinet, as at L', and is adapted to close down over the sewing machine-head when the latter is in its lowered position. The arrangement of parts is such that when frame or carrier B and the sewing-machine-head, are in their elevated position, shown in Figs. 1, 2 and 3, folding-leaf or section L shall form an extension of the table of

the cabinet and shall have its upper surface flush with the upper surface of said table, and slide I shall engage the upper end of slideway h and be in position supporting frame or carrier E and load, as shown very clearly in Fig. 3, wherein slide I, upon its inner side, is provided with a roller I' engaging the under side of a block or member B' depending from and rigid with frame or carrier B. The connection of rope or cable K with folding-leaf or section L is such a distance from the axis of said leaf or section that when the latter is tilted to close down over the opening in the table of the cabinet, slide I will be free to move down its slideway h , and frame or carrier B, and the sewing-machine-head borne thereby, will tilt downwardly by gravity into the position shown in Fig. 4.

To accommodate the downward movement of frame or carrier B and the location of said frame or carrier in its downwardly tilted position, without interference with the fly-wheel M of the sewing-machine, that portion of said frame or carrier, to which a curtain D is attached, is hinged, as at B², to the main or body-portion of the frame or carrier, as shown in Figs. 1 and 4, in such a manner that when the frame or carrier is lowered, said hinged and curtain-engaging section of frame or carrier B shall be capable of swinging laterally and upwardly as required to avoid interference with the fly-wheel of the machine.

To avoid undue strain upon rope or cable K, when frame or carrier B, and the sewing-machine-head borne thereby, are held in their elevated position, we provide a horizontally-arranged slide O, (see Figs. 1 and 5) within the left-hand end of the table of the cabinet, said end of the table being slotted horizontally as at a' , to accommodate the location and operation of said slide. The arrangement of parts is such that when folding-leaf or section L is in position closing opening a in the table slide O shall protrude at the left hand end of the table as shown at O' in dotted lines, Fig. 5, and a spring P acts to retain slide O in said position. Spring P is secured to table A in any approved manner, as at P' in Fig. 1, and is shown engaging a shoulder O² formed at the inner end of slide O. When folding-leaf or section L is brought into line with table A, however, as required to elevate the sewing-machine-head into an operative position, the hinged end of said leaf or section comes into engagement with the outer end of slide O and actuates the latter inwardly in under frame or carrier B, so that said slide shall assist in supporting said frame or carrier and load, as shown in Figs. 1 and 2, and in solid lines Fig. 5.

Frame or carrier B is shown cut away or recessed at B³, (see Fig. 5) to accommodate the location and operation of slide O and spring P. The location of slide O is furthermore such that it, in its operative position, shall extend in under the curtain-engaging section of frame or carrier B, as well as in under the

main portion of said carrier, as shown in Fig. 1, whereby it serves to hold the curtain-engaging section of the sewing-machine-head-carrier in line with the main portion of said carrier when the latter is in its elevated position.

What we claim is—

1. A sewing-machine-cabinet having a table A provided with an opening *a*, vertically-tilting frame or carrier B hinged to or pivotally supported from the table and adapted, in its elevated position, to occupy the aforesaid opening in the table, folding-leaf or section L hinged to one end of the table, inclined slideway *h* provided below the opposite end of the table, slide I engaging said slideway and provided with a roller I' engaging the under side of the aforesaid tilting-frame or carrier, a rope or flexible member operatively connecting said slide with the aforesaid folding-leaf or section, and guide-sheaves or pulleys K' K² for said rope or flexible connection, the arrangement of parts being such that the tilting-frame or carrier shall be lowered or elevated according as the aforesaid folding-leaf or section is closed down over the opening in, or brought into line with, the table, substantially as set forth.

2. In a sewing-machine cabinet, the combination with stationary table A provided with an opening *a*, vertically-tilting-frame or carrier B composed of two sections hinged together, as at B², the load-bearing or main section whereof is hinged to or pivotally supported from the table, folding-leaf or section L hinged to the left-hand end of the table, and means operatively connecting the aforesaid tilting-frame or carrier with said folding-leaf or section in such a manner that the tilting-frame or carrier is lowered or elevated according as the folding-leaf or section is closed down over the opening in, or brought into line with, the table, of a slide O within the left hand end of the table, said slide, in its normal or inoperative position protruding at the left hand edge of said table and adapted to be actuated inwardly in under both sections of the aforesaid tilting-frame or carrier by the folding-leaf or section, and a spring acting in the direction to retain said slide in its normal or inoperative position, the table being suitably slotted to accommodate the location and operation of said slide, substantially as set forth.

3. In a cabinet of the variety indicated, the

combination with the stationary part of the cabinet and table A provided with opening *a*, and vertically-tilting-frame or carrier B hinged to or pivotally supported from the forward portion of the table, of the panel E hinged to the upper forward portion of the stationary part of the cabinet and operatively connected with the aforesaid tilting-frame or carrier in such a manner that the panel is lowered or elevated according as the tilting-frame or carrier is lowered or elevated, substantially as shown, for the purpose specified.

4. In a cabinet of the variety indicated, the combination with the stationary part of the cabinet and table A provided with an opening *a*, vertically-tilting-frame or carrier B hinged to or pivotally supported from the forward portion of the table, panel E hinged to the forward portion of the stationary part of the cabinet and capable of swinging inwardly, slideway G arranged transversely of and below the tilting-frame or carrier, slide E² engaging said slideway, and link operatively connecting said slide with the panel, all arranged and operating substantially as shown, for the purpose specified.

5. In a cabinet of the variety indicated, the combination with the stationary part of the cabinet and table A provided with an opening *a*, vertically-tilting-frame or carrier B hinged to or pivotally supported from the forward portion of the table, said tilting-frame or carrier being provided with two depending members *g g* located a suitable distance apart transversely of said frame or carrier, longitudinally slotted plate, forming slideway G, secured to said depending members of the tilting-frame or carrier, panel E hinged to the forward portion of the stationary part of the cabinet, at E', and capable of swinging inwardly in under the table of the cabinet, link *e* pivotally secured to said panel at one end, as at *e'*, and extending through the slot in the aforesaid plate, said link, at the inner surface of the plate, terminating in the slide, *e*², substantially as shown, for the purpose specified.

In testimony whereof we sign this specification, in the presence of two witnesses, this 19th day of December, 1894.

THEODOR KUNDTZ.
RUDOLPH KOSCH.

Witnesses:

C. H. DORER,
L. WARD HOOVER.