Nov. 7, 1944. D. H. CHASON ET AL 2,362,243

SEWING MACHINE TABLE

Filed Jan. 19, 1943

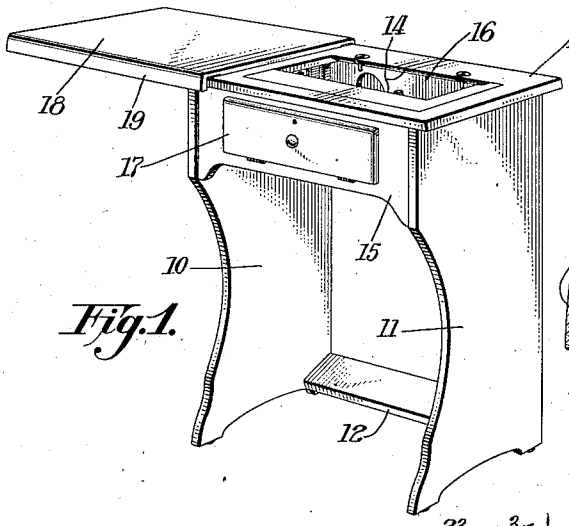


Fig. 1.

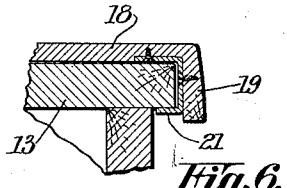


Fig. 6.

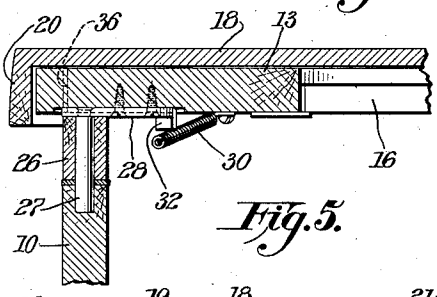


Fig. 5.

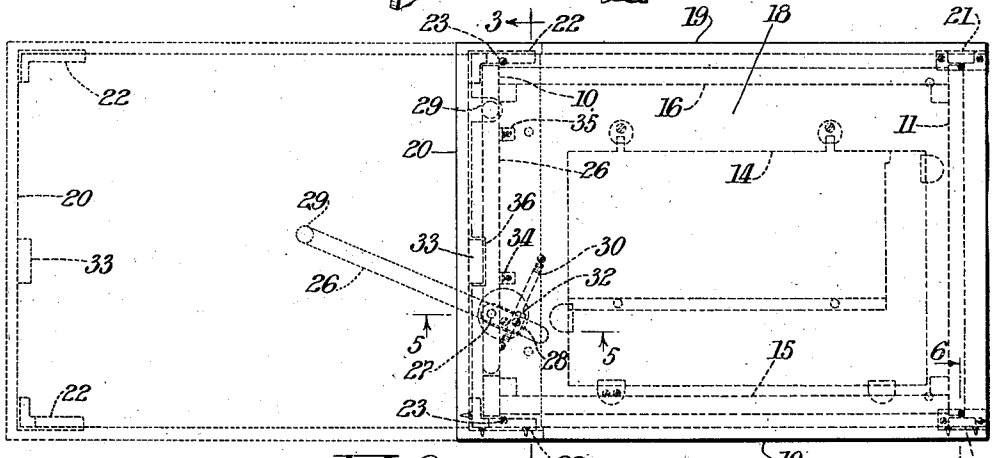


Fig. 2.

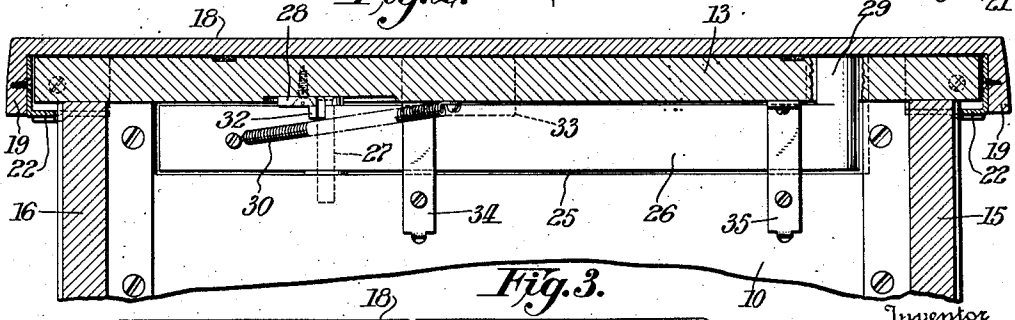


Fig. 3.

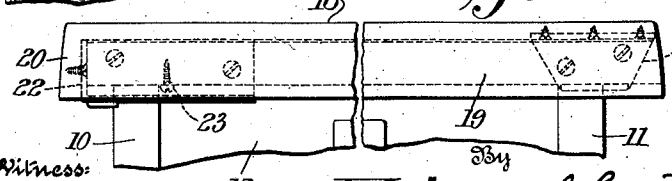


Fig. 4.

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Patented Nov. 7, 1944 2,362,243

UNITED STATES PATENT OFFICE

2,362,243

SEWING MACHINE TABLE

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Application January 19, 1943, Serial No. 472,844

3 Claims. (Cl. 311—54)

This invention relates to sewing machine cabinets of the drop-head type having an apertured top through which the sewing machine head is lowered when not in use. Cabinets of this type have a leaf or closure which is adapted to overlie the top of the cabinet and cover the aperture in the top thereof.

One of the objects of this invention is to provide a closure leaf or cover for the table-top which is adapted to slide along the top to an open position, and to provide improved means for supporting the cover when it is in open position. Another object of the invention is to so construct the supporting means as to cause it to automatically become effective when the cover is in open position, and to automatically return to its normal position when the cover is moved to its closed position.

With the above and other objects in view, as will hereinafter appear, the invention comprises the devices, combinations and arrangements of parts hereinafter set forth and illustrated in the accompanying drawing of a preferred embodiment of the invention, from which the several features of the invention and the advantages attained thereby will be readily understood by those skilled in the art.

In the drawing—

Fig. 1 is a perspective view of my improved sewing machine cabinet.

Fig. 2 is a top plan view showing the cabinet with the cover in closed position in full lines, and in open position in dotted lines.

Fig. 3 is a sectional view taken along the line 3—3 of Fig. 2.

Fig. 4 is a side elevation of the cover.

Fig. 5 is a sectional view taken along the line 5—5 of Fig. 2.

Fig. 6 is a sectional view taken along the line 6—6 of Fig. 2 and showing the channel guide member for the cover.

In the embodiment of the invention selected for illustration the improved cabinet comprises the legs 10 and 11 connected at their lower ends and at the rear edge thereof by a transversely arranged foot-board 12. Supported at the upper ends of the legs is a top 13, apertured as at 14, to receive the head of a sewing machine. Located below the top 13 and connecting the legs 10 and 11 are front and back side pieces 15 and 16, respectively, the front piece 15 being provided with a pivoted drawer 17. The top portion of the legs 10 and 11 and the side pieces 15 and 16 form an enclosure which houses the sewing machine when it is lowered.

Slidably mounted on the top 13 is a cover or leaf 18 having downturned side-walls 19 and an end-wall 20. Secured by screws to the under side of the leaf 18 and to the side-walls 19, and located at each of the corners on the right end of the leaf 18, as viewed in Fig. 2, is a U-shaped channel guide member 21 with its lower limb underlying the marginal edge of the table-top 13. Also located on the under side and at the other two corners of the leaf 18, and secured by screws to the side walls 19 and end wall 20 are two L-shaped sheet metal guides 22 having their lower limbs underlying the lower marginal edge of the table-top 13. From the above it will be observed that the guide members 21 and 22 hold the leaf on the table-top so that the entire table may be lifted by the leaf. Also the guide members 21 guide the leaf when it is being moved to open position, as shown in Fig. 1. Further, when the leaf is in open position the guide members 21 serve to partially support the leaf. To stop the leaf in its proper position a screw 23 is placed on the under side of the top near the marginal edge and at the left-hand end of the top. When the leaf reaches its correct open position the lower limb of the guide 21 strikes the screw 23 and the leaf is thereby prevented from being pulled from the table-top.

In order to assist in the support of the table leaf when it is in open position the leg 10 is provided with a cut-out 25 (Fig. 3) in which is located an arm 26 pivoted intermediate its end on a pin 27 having its lower end extending into the leg 10 and its upper end secured to the top 13 by means of a sheet metal plate 28. The arm 26 is provided at one end with a cylindrical upstanding portion 29 the top of which engages the lower face of the leaf 18. Near the other end of the arm there is secured one end of a tension spring 30, the other end of the spring being secured to the under side of the table-top 13. The spring 30 biases the arm 26 so that it tends to swing about its pivot to its leaf-supporting position as shown in dotted lines in Fig. 2. To limit the movement of the arm 26 about its pivot a lip is struck from the sheet-metal plate 28 to form a stop 32 which is adapted to be engaged by the side of the arm 26 when the arm has reached its correct leaf-supporting position. In order to return the arm 26 to its normal position and to align it with the leg 10 the under side of the leaf 18 is provided with a rectangularly shaped block 33. When the leaf is pushed to closed position to cover the top of the table, the end wall 20 initially engages the cylindrical end 29 of the supporting

arm 26 and forces the arm 26 to swing about its pivot until the leaf near its closed position at which time the block 33 engages the side of the arm and pushes it to a position in which it is flush with the leg 10. In this position the arm 26 is in contact with the metal strengthening members 34 and 35 which bridge the cut-out 25 and connect the leg 10 and top 13. To permit the block to force the arm 26 to a position in which it engages the members 34 and 35 the table-top 13 is formed with a cut-out 36 which is complemental to the block.

From the foregoing it will be observed that the leaf 18 is adapted to slide along the table-top and is guided in its sliding movement by the side-walls 19 and the guide members 21, and that when the leaf 18 is slid along the table to open position the supporting arm 26 automatically swings about its pivot to the correct leaf-supporting position. It will also be observed that when the leaf 18 is moved to its closed position overlying the table-top 18, the supporting arm 26 is automatically moved to its normal position flush with the leg 10.

Having thus set forth the nature of the invention what we claim herein is:

1. A sewing machine table of the drop-head type having legs and a rectangularly shaped top carried thereby, an extension leaf having side walls and an end-wall extending downwardly over the edges of said table-top, guide members secured to and located on the under side of and at the corners of said extension leaf, said guide members extending beneath the lower marginal edge of said top and adapted to slidably secure said extension leaf to said top, a leaf-supporting arm pivotally carried by said table, a spring for moving said arm to its leaf-supporting position when the extension leaf is moved to its open position and means carried by said arm and engageable by the end wall of said extension leaf for moving said arm to its non-supporting position, in opposition to said spring, when the extension leaf is moved to its closed position.

2. A sewing machine table of the drop-head type having legs and a rectangularly shaped top carried thereby, an extension leaf having side walls and an end-wall extending downwardly over the edges of said table-top, sheet metal guide members secured to and located on the under side of and at the corners of said extension leaf, said guide members extending beneath the lower marginal edge of said top and adapted to slidably secure said extension leaf to said top, a leaf-supporting arm pivotally carried by said table, a spring for swinging said arm about its pivot to its leaf-supporting position when the extension leaf is moved to open position, a stop for limiting the movement of said arm about its pivot, and means carried by said arm and engageable with said leaf for moving said arm to its normal position when the leaf is moved to its closed position.

3. A sewing machine table of the drop-head type having a rectangularly shaped top supported by legs located at each end of the top, an extension leaf mounted for sliding movement on said top, a leaf-supporting arm located in a cut-out in one of the legs and pivotally secured to said leg, a tension spring having one of its ends secured to said table top and its other end secured to said arm, said spring tending to move said arm about its pivot to a leaf supporting position when said leaf is extended, and a depending member carried by said leaf for engaging said arm, returning it to non-supporting position when said leaf is retracted, and maintaining it in said cut-out against the action of said spring.

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