

E. STARK AND J. REHOR.
 DROPHEAD SEWING MACHINE CABINET.
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1,402,805.

Patented Jan. 10, 1922.

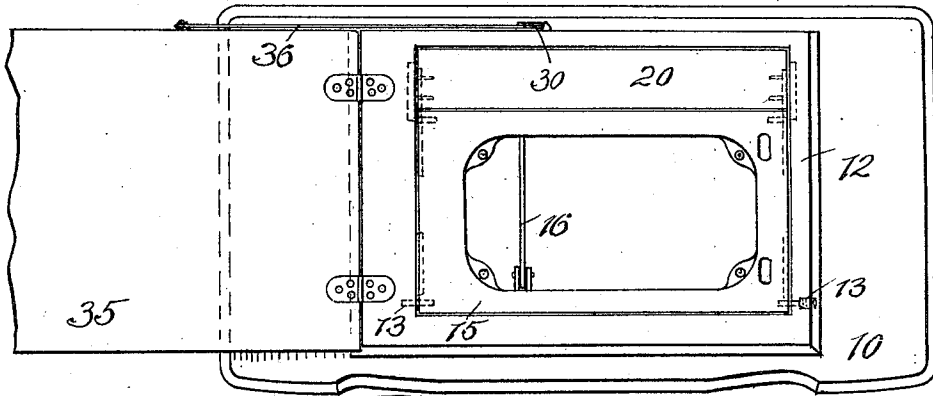


Fig. 1.

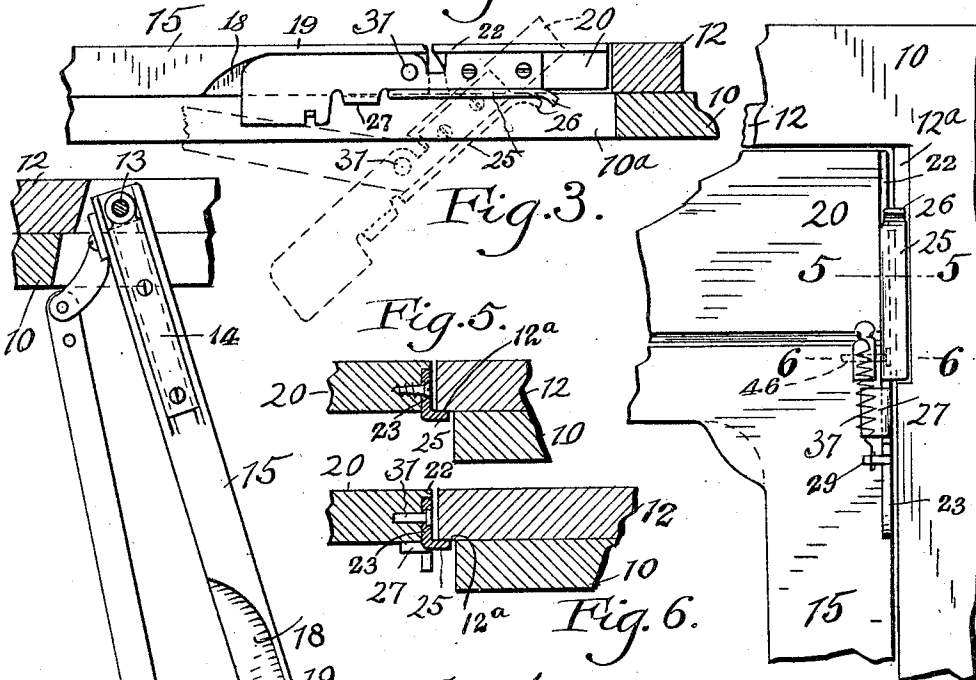


Fig. 2.

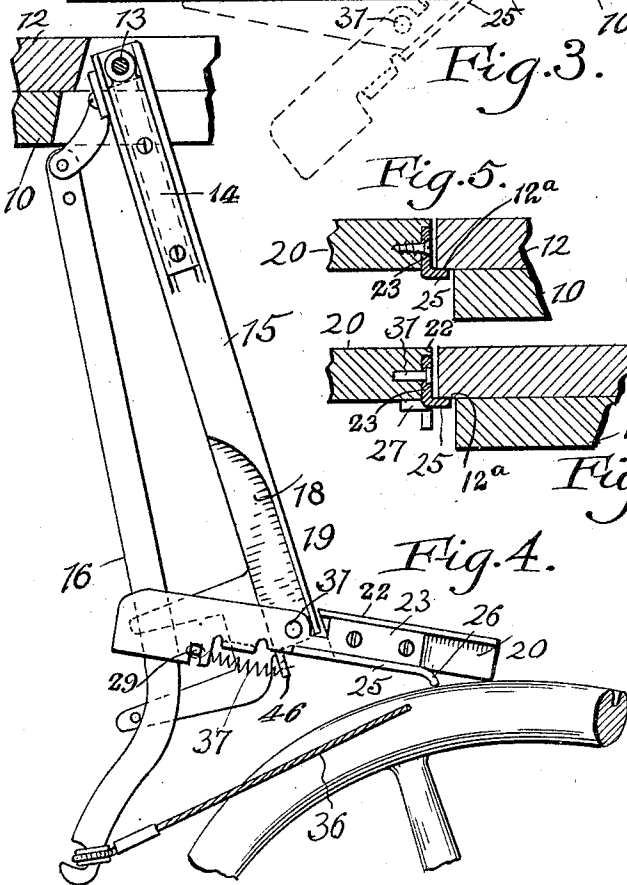


Fig. 3.

Fig. 5.

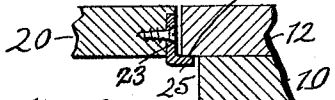


Fig. 4.

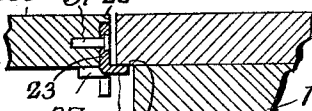


Fig. 6.

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DROPHEAD-SEWING-MACHINE CABINET.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that we, EDWARD STARK and JOSEPH REHOR, citizens of the United States, and residents, respectively, of Cleveland, in the county of Cuyahoga and State of Ohio, and Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in Drophead-Sewing-Machine Cabinets, of which the following is a full, clear, and exact description.

This invention relates to the kind of drop head sewing machine cabinets in which a head supporting platform is hinged near its front edge to the table or top of the cabinet, and has a flap or leaf hinged to its rear edge,—the said platform and flap being of such size and shape that when they are aligned and in the horizontal working position they substantially fill a hole in the top of the cabinet.

The object of this invention is to provide simple and inexpensive means for compelling the said flap or leaf to become aligned with the head platform when the latter has been swung into the horizontal working position.

Another object of the invention is to provide the means for accomplishing the above specified result in such form that they are wholly out of sight when the head platform and its flap are in the working position.

The invention consists in the construction and combination of parts shown in the drawings and hereinafter described and pointed out definitely in the appended claims.

In the drawings, Fig. 1 is a plan view of a sewing machine cabinet in which the present invention is embodied, when the head supporting platform and flap are in the horizontal working position; Fig. 2 is a bottom view of a part of one side of the head supporting platform and its flap and the adjacent parts of the open frame which they fill when they are in the horizontal working position, in which they are shown in said figure; Fig. 3 is a side elevation of the rear portion of the head supporting platform and its flap showing in particular the means by which they are connected together; Fig. 4 is a sectional side elevation showing the position of the head supporting platform and its flap and the parts associated therewith when said platform is swung down below the table; Fig. 5 is a sectional view in the plane indicated by line 5—5 on Fig. 2, and

Fig. 6 is a sectional view in the plane of line 55 indicated by 6—6 on Fig. 2.

Referring to the parts by reference characters, 10 represents the table of the cabinet; 12 represents an open rectangular frame secured to the top of the table around a suitable opening 10^a therethrough, thereby becoming a part of the table; 15 represents the head supporting platform, that is to say, it is a platform upon which the sewing machine head is to be secured; 20 represents a flap which is hinged to the rear of the platform by means to be presently described.

The platform and its flap are of such dimensions that when they are in alignment in the horizontal working position they substantially fit the rectangular head opening in the frame 12. The platform adjacent its front edge is hinged to the frame by suitable means, as for example, two pintle pins 13 secured to the side members of the frame 12 project into holes in metal bars 14 which are secured to the sides of the platform near the front edge thereof whereby said platform may be swung up to horizontal working position within said frame as shown in Figs. 2 and 3, or down below the table, as shown in Fig. 4.

35 represents an extension top which is hinged to the left side member of the frame 12 on an axis at right angles to the axis of the hinge of the platform. This extension top may be in the position shown in Fig. 1, where it uncovers the opening through the frame and serves as an extension of the table 10, or it may be swung through an arc of 180° to a position such that it will rest upon the frame and cover the opening there-through.

This extension top serves as a lever by means of which the platform may be swung up to and held in the horizontal position, or may be allowed to swing down into the substantially vertical position thereby carrying the sewing machine head below the table top. The means shown through which the swinging of the extension top causes the described movements of the platform are common in this art. They consist of a cable 36 which is fixed at one end to the extension top at a suitable distance from the hinge axis thereof, and at its other end to an arm 16 fixed to the under side of the machine platform and extending rearward

therefrom. This cable goes through the table 10 and runs over suitable cable guides 30 therefor. As the extension top is swung to the working position shown in Fig. 1 it pulls platform up into the horizontal working position, also shown in that figure; when the extension top is swung over to the closed position it permits the machine platform to swing down to the position shown in Fig. 4.

In order to pivotally connect the flap 20 to the head supporting platform 15, two thin flat metal bars 23 are employed. Each of these is secured in a recess below an overhanging flange 22 which is a part of the flap. Each of these bars extends forward into a recess 18 let into the side edge of the head platform below a flange 19 which overhangs the said bar 23 and conceals it from view.

Pivot pins 31 go through holes in these bars and screw into the edges of the platform, and thereby the flap is hinged to the rear edge of the platform. The lower edge of that part of each bar 23 which is fixed to the flap is formed with an integral outwardly extended flange 25, the rear end 26 of which is curved downward slightly. There is also an inwardly projecting finger 27 bent inward from the lower edge of that part of each bar which extends in front of the pivot screw, and therefore extends beneath the platform 15.

A contractible coiled spring 37 is connected at one end with the rearwardly extended stud 46 fixed to the head platform near its rear edge and at the other end to a little lug 29 pressed out from the forward extension of the bar 23. This spring acts, when not prevented from so acting, to swing the flap upon its pivot into position shown in Fig. 4.

When, through the instrumentality before described, the head supporting platform is swung up to the horizontal position the outwardly extended flange 25, and at first, the curved front end 26 thereof will engage the lower surface of an overhanging part 12^a of the frame 12, as shown in Figs. 5 and 6, and thereby the front end of the flap will be prevented from going up while its rear end goes up with the platform, and both come to the horizontal position shown in Fig. 3, where, as before stated, they substantially fill the opening through the frame 12. When they come to this position the said flange 25 by its engagement with the under surface of the overhanging part 12^a of the frame prevents any upward swing of the flap; and the finger 27 coming into contact with the under side of the head platform near its rear end will by this engagement limit the upward movement of the head platform.

It is apparent that the means by which

the flap and the head platform are pivoted together as well as the means carried by the pivot bars 23 to bring about the horizontal alignment of these two parts are completely hidden from view by the overhanging flanges 19 and 22.

While it is desirable to provide these plates 23 at both ends of the head platform with the flanges 25 and finger 27 above referred to, it might serve the purpose if only one of such bars were so provided with these flanges; or if a bar at one end carried the flange and the bar at the other end carried the finger.

Having described our invention, we claim:

1. In a drop head sewing machine cabinet, the combination of a top having an opening through it, a platform loosely fitted between sides of said opening and hinged near its front edge to said top, a flap hinged to the rear edge of said platform by means of two flat metal bars which are respectively fixed to the sides of the flap in recesses in said sides below the top surface, which bars extend forwardly into recesses in the sides of the platform below the top surface thereof, pivot pins going through said bars into the edges of said platform,—each of said bars having along its lower edge and near its rear end an outwardly bent flange whose rear end is curved downward, which flanges extend beneath and are adapted to engage with the lower surface of the top.

2. In a drop head sewing machine cabinet, the combination of a table having an opening through it and a rectangular frame fixed to the top of the table around said opening with the side members of said frame near their rear ends slightly overhanging the sides of said opening, a platform which adjacent to its front edge is pivoted to said frame, means for raising and lowering said platform, a flap hinged to the rear edges of said platform, the hinging device comprising flat metal bars which are secured to the ends of the flap and extend forward alongside of the ends of the platform and are pivoted to said ends, a flange integral with one of said bars and projecting outward from that part of the bar which is fixed to the flap whereby when the platform is raised this flange will engage the above mentioned overhanging part of said frame and will cause the flap to swing into alignment with the platform.

3. In a drop head sewing machine cabinet, the combination of a table having an opening through it and a rectangular frame fixed to the top of the table around said opening with the side members of said frame near their rear ends slightly overhanging the sides of said opening, a platform which adjacent its front edge is pivoted to said frame, means for raising and lowering said platform, a flap hinged to the

rear edges of said platform, the hinge devices comprising flat metal bars which are secured to the ends of the flap and extend forward alongside of the ends of the platform and are pivoted to said ends, a flange integral with said bar and projecting outward from that part of the bar which is fixed to the flap whereby when the platform is raised this flange will engage the above mentioned overhanging part of said frame and will cause the flap to swing into alignment with the platform, and one of said bars having in its forwardly extended part and at its lower edge an integral inwardly bent finger which extends beneath the platform and will engage the platform when the leaf is in alignment with the platform.

4. In a drop head sewing machine cabinet, the combination of a table having an opening through it and a rectangular frame fixed to the top of the table around said opening with the side members of said frame

near their rear ends slightly overhanging the sides of said opening, a platform which adjacent its front edge is pivoted to said frame, means for raising and lowering said platform, a flap hinged to the rear edges of said platform,—the hinge devices comprising flat metal bars which are secured to the ends of the flap and extend forward alongside of the ends of the platform and are pivoted to said ends, a flange integral with said bar and projecting outward from that part of the bar which is fixed to the flap whereby when the platform is raised this flange will engage the above mentioned overhanging part of said frame and will cause the flap to swing into alignment with the platform, the front end of said flange being downwardly curved.

In testimony whereof, we hereunto affix our signatures.

EDWARD STARK.
JOSEPH REHOR.