J. J. GEDEON.

SEWING MACHINE TABLE.

APPLICATION FILED MAR. 13, 1911.

1,082,690.

Patented Dec. 30, 1913.

4 SHEETS—SHEET 1.

Fig. 1.

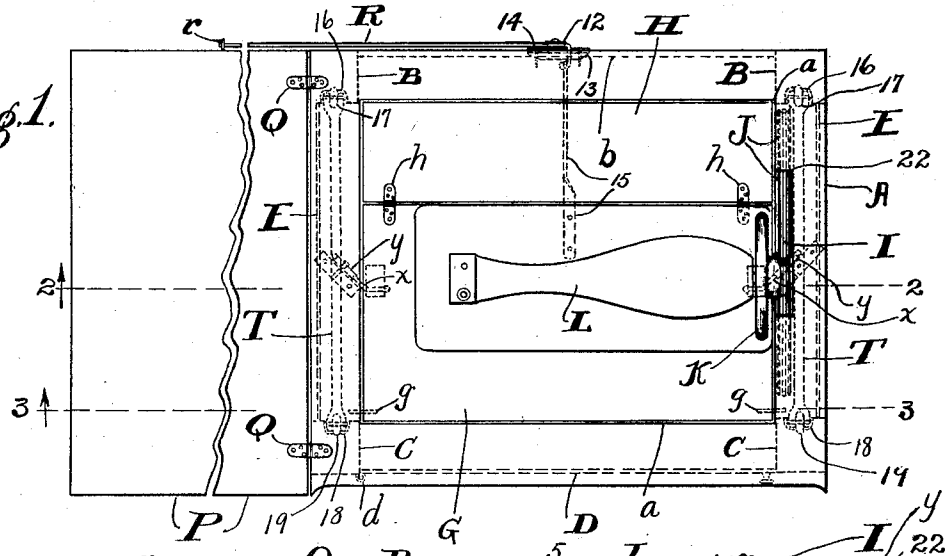
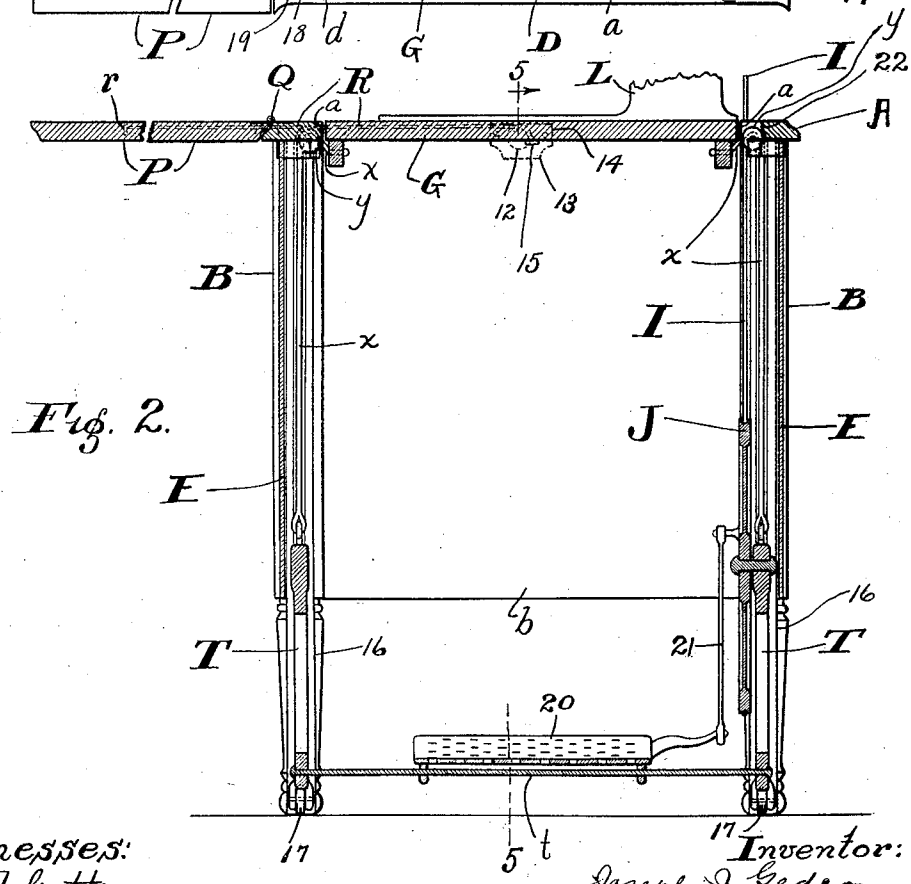


Fig. 2.



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4 SHEETS—SHEET 2.

Fig. 3.

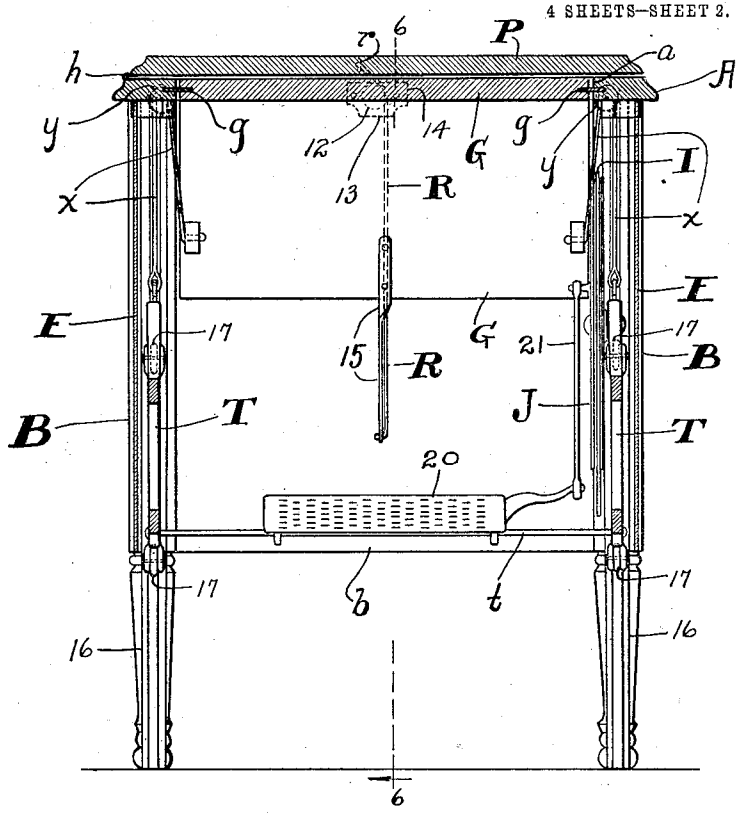
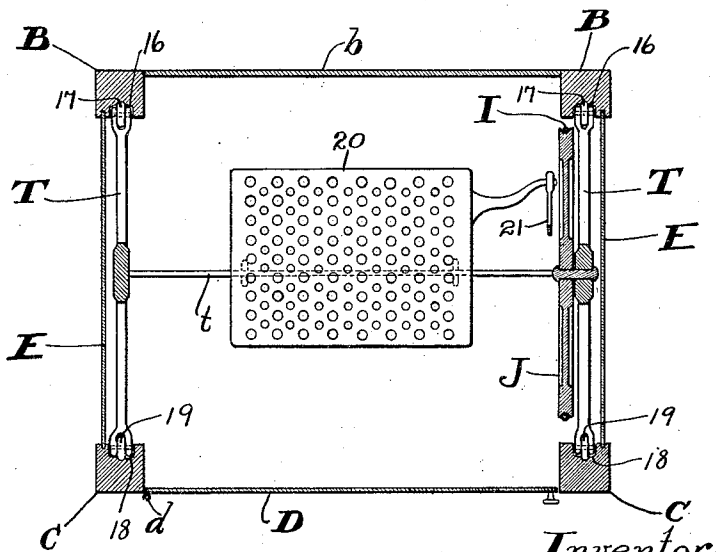


Fig. 4.



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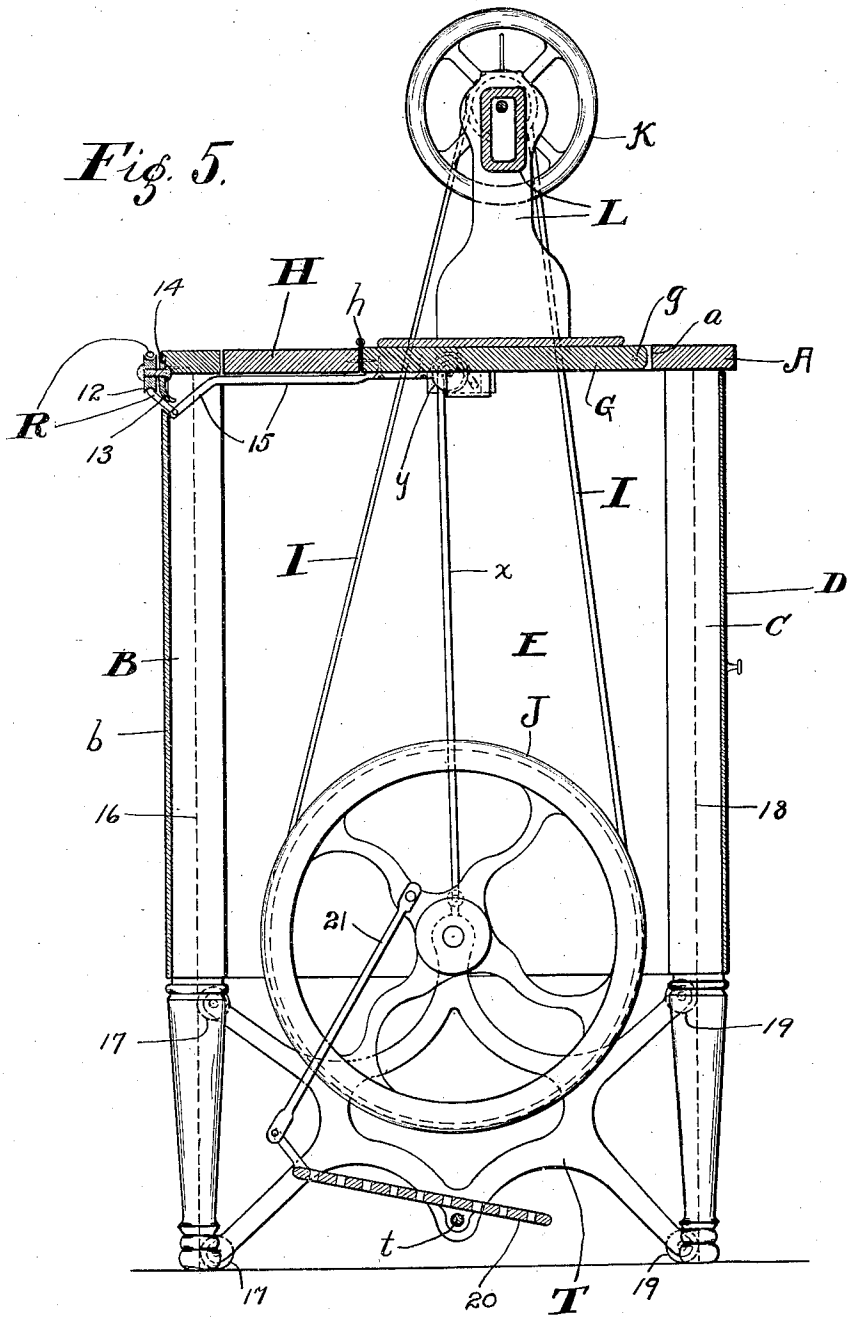
4 SHEETS—SHEET 3.

Fig. 5.



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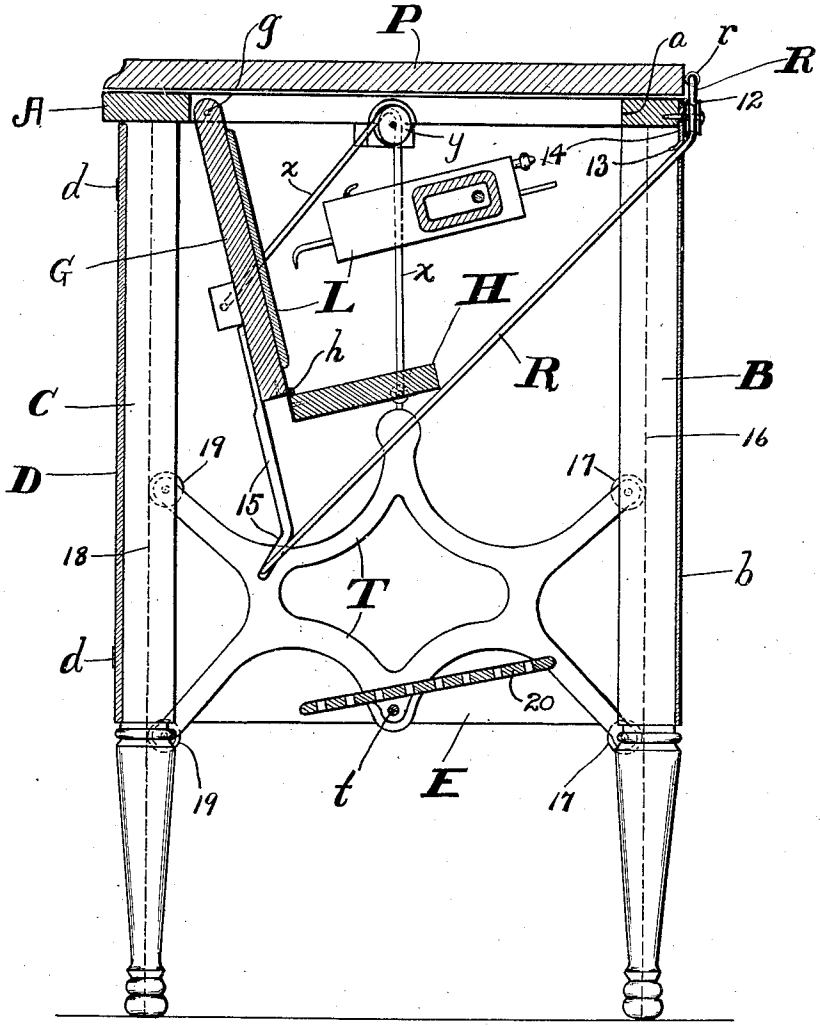
4 SHEETS—SHEET 4.

Fig. 6.



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UNITED STATES PATENT OFFICE.

JOSEPH J. GEDEON, OF LAKEWOOD, OHIO.

SEWING-MACHINE TABLE.

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Application filed March 13, 1911. Serial No. 614,261.

To all whom it may concern:

Be it known that I, JOSEPH J. GEDEON, a citizen of the United States of America, residing at Lakewood, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Sewing-Machine Tables; and I 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.

This invention relates to improvements in sewing-machine tables.

The primary object of this invention is to carry the treadle and the driving-wheel of a sewing-machine table by a stand which is shiftable vertically and arranged in the same vertical plane in either extreme position of the stand.

Another object is to have the said stand efficiently guided during the movement of the stand from the one to the other of its extreme positions of the stand.

Another object is to have the said stand so constructed and arranged relative to the legs of the stationary portion of the table that the stand in its lower position rests on the floor at the said legs.

Another object is to provide such a relative arrangement of the parts that the driving-wheel and the treadle are in a working position in the lower position of the said stand and both the said treadle and the said driving-wheel, when the stand is in its elevated position, are out of the way of a broom or other means employed in sweeping or cleaning below the table, and no removal of the treadle from the stand, nor any shifting of the treadle or driving-wheel independent of the stand, nor any swinging of the stand, nor any disconnection of the pitman from the treadle of the driving-wheel, are required preparatory to the actuation of the stand from its lower into its upper position.

Another object is not only to have the top of the table provided with an opening which is arranged to be engaged by a platform employed in carrying the sewing-machine head, which platform is movable to render it capable of lowering the said head below the table-top or raising the said head above the table-top, but to have the aforesaid stand arranged in its lower position when the platform is in its upper or opening-engaging position, and to have such an operative connection between the platform and the said stand that the latter is elevated bodily from the floor during the movement of the platform from its upper into its lower position, and the stand lowers bodily by gravity during the movement of the platform in the opposite direction.

Another object is to have said stand provided at each leg of the stationary portion of the sewing-machine-table with two vertically spaced anti-friction rollers engaging a guideway formed in and extending longitudinally of said leg so that said stand is adequately guided and moves easily during its vertical movements, to have said stand adapted to rest on the floor in its lower position at each leg, and to have said stand while resting on the floor still in engagement at its lower rollers with the guideways in said legs so that said stand is adequately steadied and rests firmly on the floor in said position.

With these objects in view, and to the end of attaining any other advantage hereinafter appearing, this invention consists in certain structural features, and combinations and arrangement of parts, hereinafter described, pointed out in the claims, and illustrated in the accompanying drawings.

In the said drawings, Figure 1 is a top plan of a sewing-machine table embodying my invention. Fig. 2 is a central vertical section on line 2—2, Fig. 1, looking rearwardly. Portions are broken away in Figs. 1 and 2 to reduce the size of the drawings, and in the said figures the sewing-machine head is shown raised above the table-top, and Fig. 2 shows the stand, which supports the driving-wheel and the treadle of the sewing-machine, in its lower position. Fig. 3 is a section on line 3—3, Fig. 1, looking rearwardly. In this figure the platform employed in carrying the sewing-machine head is shown in its downwardly swung or lower position and the stand which carries the driving-wheel and the treadle is shown in its elevated position. Fig. 4 is a horizontal section taken through the stand above the treadle borne by the stand and taken through the legs of the stationary portion of the sewing-machine table to show the guideways formed in the said legs and engaged by the said stand. Fig. 5 is a vertical section on line 5—5, Fig. 2, looking in the direction indicated by the arrow. Fig. 6 is a vertical section on line 6—6, Fig. 3, looking in the direction indicated by the arrow. Figs. 5

and 6 are drawn on a larger scale than Figs. 1, 2, 3 and 4.

Referring to the drawings, A indicates the horizontally arranged stationary top of my improved sewing-machine table, which top is quadrangular in plan, as shown in Fig. 1, and mounted on four legs which are arranged at the different corners respectively of the said top, B indicating the rear legs and C representing the forward legs. It will be observed therefore that the rear legs B and B are spaced laterally and arranged under the rear portion of the top A at the right-hand end and left-hand end respectively of the top, and the forward legs C and C are spaced laterally and arranged under the forward portion of the said top at the right-hand end and left-hand end respectively of the top. The top A and legs B and C form members therefore of the stationary portion of the table. The stationary portion of the table also comprises a wooden back *b* which extends between the rear legs B and B and downwardly from the table-top A and is applied in any approved manner to the said top and to the said legs. The said stationary portion of the table also comprises two side panels E and E which are arranged under and extend downwardly from the top A at opposite ends respectively of the top, and also extend between and are suitably applied to the legs at the said end of the top.

Extending between the forward legs C of the stationary portion of the table is a door D which extends between the said legs and is arranged to swing in a horizontal plane, being hinged at its left-hand end, as at *d*, to the left forward leg. The table-top A is provided centrally with an opening *a* extending vertically therethrough. The opening *a* is quadrangular.

G represents a pivoted platform which is arranged to swing in a vertical plane. The platform G occupies the opening *a* in the table-top, as shown in Figs. 1, 2 and 5, or depends below the said opening, as shown in Figs. 3 and 6, according as the platform is in the one or the other of its extreme positions. The opening *a* is large enough in dimensions to accommodate a reception thereby of the platform G and a leaf H connected to the platform as will hereinafter appear. Preferably the platform G is pivoted, as at *g*, to the side walls of the opening *a* and in suitable proximity to the rearwardly facing forward wall of the said opening, and it will be observed therefore that the platform is pivoted to the table-top A horizontally and longitudinally of and in suitable proximity to the forward wall of the said opening, and that the pivotal connection between the platform and the table-top is therefore arranged to render the platform capable of swinging downwardly from within the said opening or upwardly into the opening. The platform G is designed to bear the sewing-machine head L shown in Figs. 1, 2, 5 and 6. The head L usually occupies more space than will permit it to swing through an opening which is not larger than the platform, and the platform if it were made large enough to accommodate the passage of a sewing-machine head therethrough would upon swinging from its horizontal and opening-closing position into its downwardly swung or lower position project too far downwardly. Consequently the opening *a* is made large enough to freely accommodate the swinging of the sewing-machine head therethrough, and the platform is adapted to only close the forward and central portions of the said opening, and the leaf H is employed to complete the closure of the opening rearward of the platform in the opening-occupying position of the platform. The leaf H (see Figs. 1, 5 and 6) is shown hinged at the forward longitudinal edge thereof, as at *h*, to the platform G at the top of the latter and has its axis parallel with the axis of the platform. The leaf H is therefore pivotally connected to the platform at the rear edge of the platform and arranged to swing in a vertical plane, being capable of swinging upwardly independent of the platform during the lowering of the platform.

A wooden leaf P (see Figs. 1 and 2) is hinged, as at Q, horizontally and transversely of the top A to the left-hand end of the said top. The leaf P is therefore arranged to swing in a vertical plane. The leaf P covers the opening *a* in the table-top A, as shown in Figs. 3 and 6, or forms a leftward extension of the said top, as shown in Figs. 1 and 2, according as the said leaf has been swung into the one or the other of its extreme positions. A cable R is attached, as at *r*, to the leaf P at the rear edge of the said leaf and a suitable distance from the axis of the leaf and extends from the said leaf to and along the rear edge of the table-top A and (see Figs. 1, 3, 5 and 6) to and over a guide-sheave 12 which is arranged centrally between the ends of the said edge, and from the said sheave the cable leads forwardly to and under a suitably curved guiding member 13 of a plate 14 which bears the said sheave and is suitably secured to the table-top. From the guiding member 13 the said cable leads forwardly to a rearwardly projecting arm 15 with which the platform G is provided at its under side, to which arm the said cable is attached. The relative arrangement of the parts is such that when the leaf P is in position forming a leftward extension of the table-top A, as shown in Figs. 1 and 2, the platform G is in its upper position. Obviously therefore dur-

ing the swinging of the leaf P from its top-extension-forming position into its opening-covering position over the table-top the laden platform G lowers by gravity, and the said platform when the said leaf is in its opening-covering position is in its downwardly swung or lower position, as shown in Figs. 3 and 6. It will be observed that the cable R forms an operative connection between the platform G and the leaf P, and the said platform is lifted and swung into its opening-closing or upper position during the actuation of the leaf P into its top-extension-forming position. During the movement of the platform G from its upper and opening-closing position into its downwardly swung or lower position the leaf H comes into contact with the cable R and is by the said contact swung upwardly independent of the platform, and the said leaf H rests against the said cable in the lower position of the platform, as shown in Fig. 6.

A vertically movable stand is arranged below and spaced from the top of the table and comprises two laterally spaced slides or frames T arranged below opposite end portions respectively of the said top. The left slide or frame T is arranged and extends between the left rear leg B and the left forward leg C. The right-hand slide or frame T is arranged and extends between the right rear leg and the right forward leg C. Within the forward side of each rear leg is formed a slideway or guideway 16 which extends from the lower extremity of the said leg upwardly a suitable distance, and the adjacent slide or frame T has two vertically spaced members which are preferably in the form of antifriction rollers 17 engaging the said guideway and coöperating with the said guideway in guiding the said slide or frame during its vertical movements. Within the rear side of each forward leg C is formed a slideway or guideway 18 which extends from the lower extremity of the said leg upwardly a suitable distance, and the adjacent slide or frame T is provided with two vertically spaced members which are preferably in the form of antifriction rollers 19 engaging the said guideway and coöperating with the latter in guiding the said slide or frame during its vertical movements. The rollers 17 and 19 have their axes parallel with the axis of the platform G. The driving-wheel J is arranged at the inner side of and supported from the right-hand slide or frame T and has its axis parallel with the axes of the rollers 17 and 19. By the provision of each slide or frame T of the vertically movable stand with two vertically spaced antifriction rollers or members for each guideway for the said slide or frame the said stand is efficiently guided and steadied during its vertical movements.

The two slides or frames T of the vertically shiftable stand are connected together by an axle *t* upon which the treadle 20 of the sewing-machine is journaled. It will be observed therefore that the said vertically movable stand carries the treadle 20 and the driving-wheel J, and that the driving-wheel and the treadle are simultaneously shifted vertically upwardly during the elevation of the said stand and are lowered from their elevated position into position ready for use during the lowering of the said stand. I would here remark that the said slides or frames of the stand in their lower position rest at the rollers 17 and 19 upon the floor.

The vertically shiftable stand, when the sewing-machine is in use, rests therefore upon the floor, as shown in Figs. 2 and 5, and in this position the treadle is in position ready for use, being operatively connected by a pitman 21 with the driving-wheel J in the usual manner, and the driving-wheel is in an operative position ready for use in transmitting power therefrom through the medium of the belt I to the band-wheel K of the sewing-machine head L. The right-hand end-portion of the table-top is slotted or cut away, as at 22, (see Figs. 1 and 2) to accommodate the location and operation of the belt I. The said vertically shiftable stand is operatively connected at the central portion of each slide or frame T of the stand by a cable *x* with the platform G, which cable is attached at one end to the said slide or frame, thence leads upwardly to and over a guide-sheave *y* arranged at the under side of and supported from the table-top A, and thence leads to the platform G to which the said cable is suitably attached. The vertically shiftable stand is therefore operatively connected with the platform G, and the relative arrangement of the parts is such that when the said stand is in its lower position and rests on the floor the platform G is in its opening-closing or upper position; that the said stand is slid or shifted bodily vertically upwardly during the lowering of the said platform, and in its upper position the said stand is arranged in suitable proximity to the lowered platform without interfering with the platform.

By the construction hereinbefore described it will be observed that a flexible operative connection between the platform G and the vertically shiftable stand is provided and comprises the two suitably guided cables *x* connected to the platform and operatively connected with the said stand; that the two sheaves *y* are arranged under the right-hand end-portion and left-hand end-portion respectively of the table-top; that the said sheaves are suitably arranged therefore at opposite sides respectively and externally of the sweep of the platform, and that the said

cables during the lowering of the platform pull vertically upwardly upon the slides or frames T of the vertically shiftable stand and elevate the latter bodily off the floor into the position shown in Figs. 3 and 6.

It will be observed that by my improved construction the stand, which carries the treadle and has two laterally spaced side members T connected by an axle for supporting the treadle operatively connected with a driving wheel arranged at the inner side of and supported from one of said side members, is guided by each leg of the stationary portion of the sewing-machine-table at two vertically spaced points; that as the roller-engaged guideway in each leg extends to the lower extremity of the leg the lower rollers of said stand are in engagement with the guideways in the legs in the lower position of the stand so that the stand rests very firmly on the floor in said position, and that the extension of said guideways to the lower extremities of the legs enables the stand to be slid upwardly into engagement with said slideways from the lower extremities of the legs in the assemblage of the parts. Not unimportant also is to have the sheaves y so arranged relative to the axis of the platform G that the axes of said sheaves are not only arranged substantially horizontally but diverge in the direction of the axis of the platform so that the cables x will remain in suitable engagement with said sheaves during the swinging of said platform.

What I claim is:—

1. The combination, with the stationary portion of a sewing-machine table, which portion is adapted to rest on the floor and comprises a table-top provided with an opening extending vertically therethrough, and a platform for carrying a sewing-machine-head, which platform is pivotally connected to the stationary portion of the table and arranged to swing in a vertical plane, said platform being within the aforesaid opening in its upper position, of two cables connected to the platform adjacent opposite side edges respectively of the platform at points spaced from the axis of the platform; a perpendicularly movable stand employed in carrying the treadle and the driving-wheel of a sewing-machine and arranged under the table-top, which stand is operatively connected with said cables and is in its lower or upper position according as the platform is in its upper or lower position, and sheaves for guiding said cables, which sheaves are supported from the stationary portion of the table and arranged externally of the sweep and spaced from the axis of the platform, said sheaves having such arrangement relative to the axis of the platform that the axes of the sheaves are arranged substantially horizontally and diverge toward the axis of the platform.

2. The combination, with the top of a sewing-machine-table, two laterally spaced rear legs arranged under the rear portion of the table-top and provided with vertically extending guideways, and two laterally spaced forward legs arranged under the forward portion of the table-top and provided with vertically extending guideways, of a movable stand arranged below the table-top and comprising the following:—a side member extending between and engaging the guideways of the right-hand rear leg and the right-hand forward leg, another side member extending between and engaging the guideways of the left-hand rear leg and the left-hand forward leg, a driving-wheel arranged at one side of and supported from one of said side members, an axle connecting said side members together, and a treadle mounted on said axle and operatively connected with said wheel.

3. The combination, with the top of a sewing-machine-table, two laterally spaced rear legs arranged under the rear portion of the table-top and provided in their forward sides with vertically extending guideways, and two laterally spaced forward legs arranged under the forward portion of the table-top and provided in their rear sides with vertically extending guideways arranged opposite the aforesaid guideways in the rear legs, of a movable stand arranged below the table-top and comprising the following:—a side member extending between and into guideways in the right-hand rear leg and the right-hand forward leg, another side member extending between and into the guideways in the left-hand rear leg and the left-hand forward leg, a driving-wheel arranged at the inner side of and supported from one of said side members, an axle connecting said side members together, and a treadle mounted on said axle and operatively connected with said wheel.

In testimony whereof, I sign the foregoing specification, in the presence of two witnesses.

JOSEPH J. GEDEON.

Witnesses:
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