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C. A. KESSLER
SEWING MACHINE TABLE

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Filed Nov. 28, 1945

3 Sheets-Sheet 1

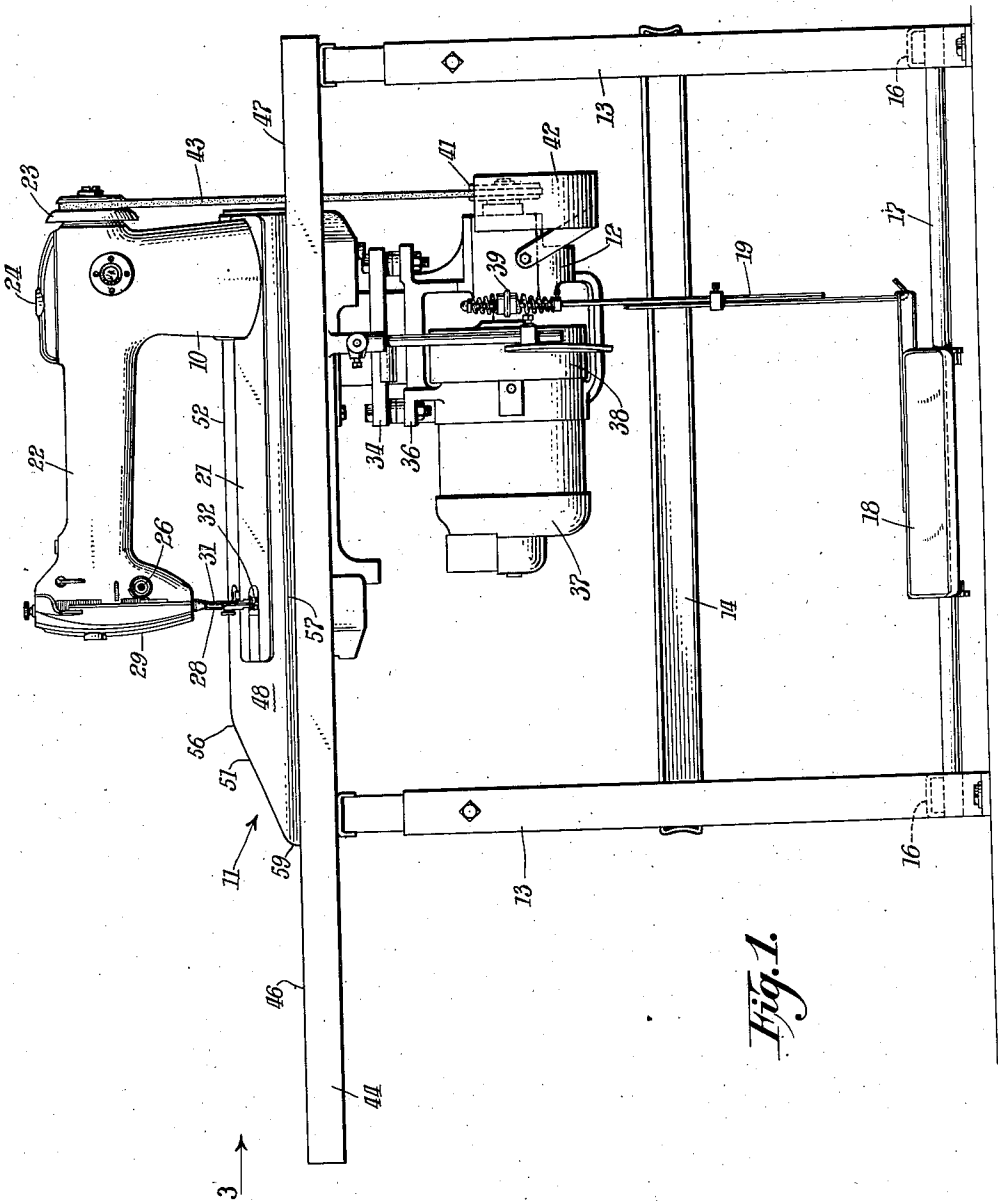


Fig. 1.

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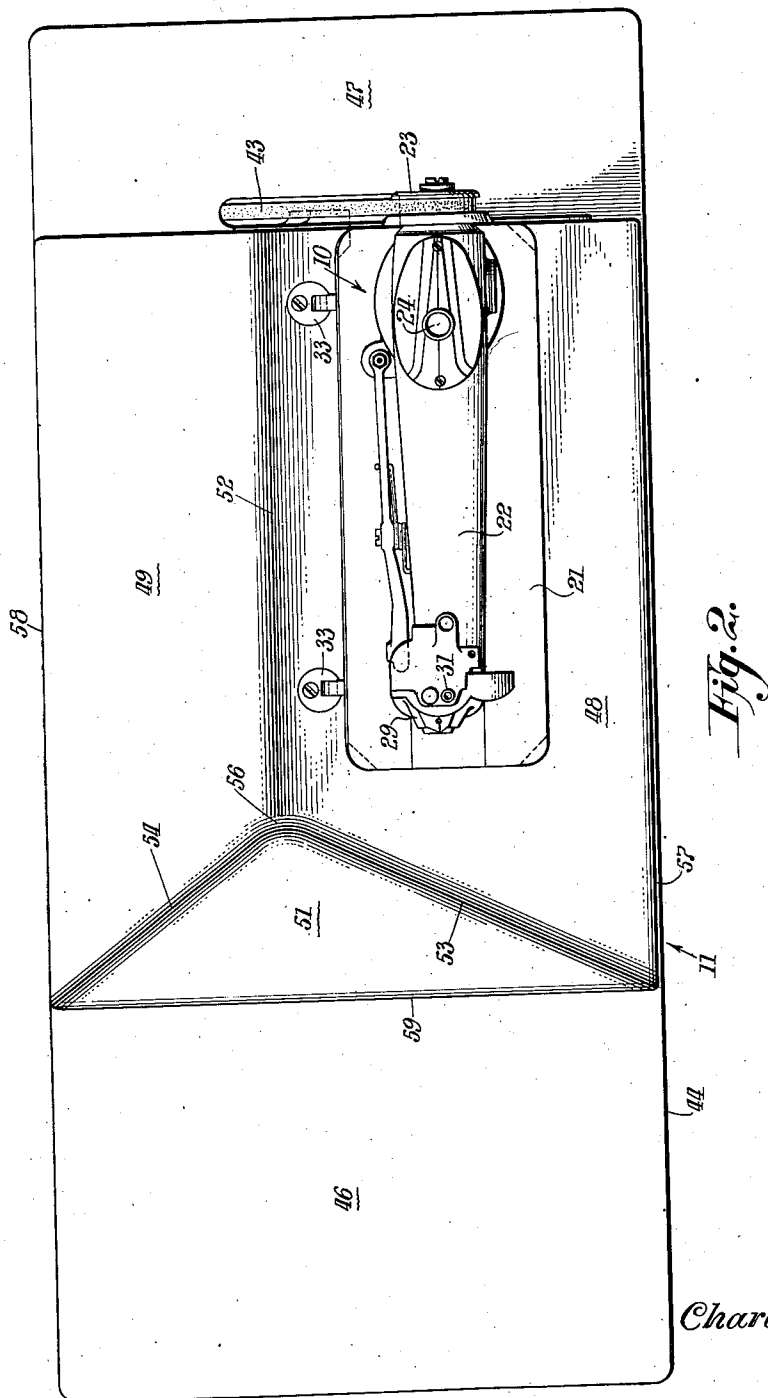


Fig. 2.

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3 Sheets-Sheet 3

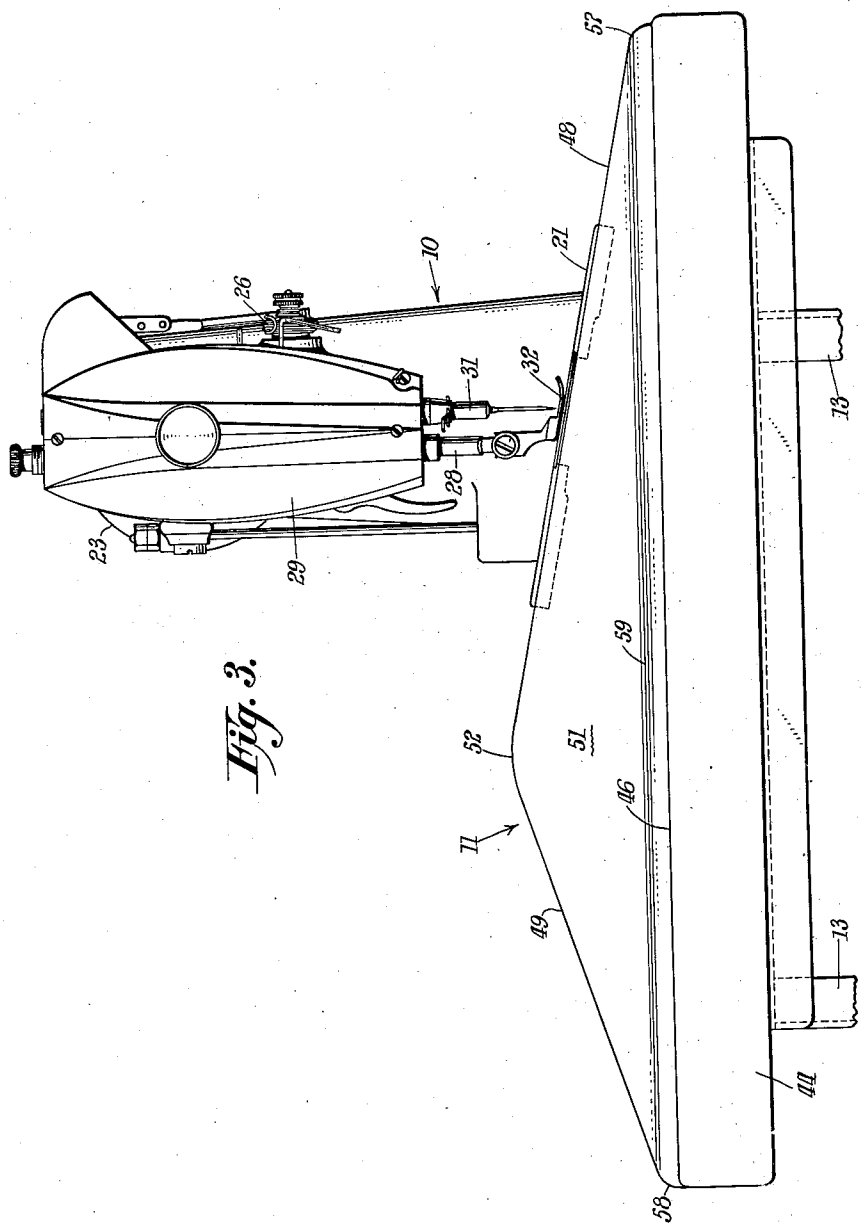


Fig. 3.

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UNITED STATES PATENT OFFICE

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SEWING-MACHINE TABLE

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7 Claims. (Cl. 311-12)

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This invention relates to improvements in sewing machine tables and more particularly relates to the upper or supporting surfaces thereof.

Heretofore, much effort has been expended toward increasing the speed at which sewing machines will operate, but insufficient consideration has been given to providing a sewing machine table that will not only allow the operator optimum comfort but which will also make it possible for the operator to do a maximum amount of work. Therefore, it is an important object of the present invention to provide a new and improved sewing machine table.

Another object of the invention is to provide a new and improved sewing machine table which will give the operator optimum comfort and at the same time permit her to have a better view of the work at the stitching point.

A further object of the invention is to provide a new and improved sewing machine table-top with upper supporting surfaces that will allow the operator the greatest amount of comfort and at the same time facilitate the handling of the work before, during, and after the sewing operation.

Other important objects of the invention will become apparent from the following description and appended claims.

The invention will be best understood by reference to the accompanying drawings, of which:

Fig. 1 is a front elevational view of a sewing machine mounted on the new and improved table.

Fig. 2 is a plan view of the sewing machine and table shown in Fig. 1, and

Fig. 3 is a side elevational view of the sewing machine and a portion of the table as seen in the direction of the arrow 3 of Fig. 1.

Referring in detail to Figs. 1, 2 and 3 of the drawings, a sewing machine 10 is shown supported on a new and improved table-top 11, and a unitary electric motor and power transmitter 12 is shown carried on the under side of the said table-top. The table-top 11 is supported by a pair of end-frames having adjustable legs 13. Braces which include a back bar 14 and a pair of short bars 16 are secured between the various legs 13. A tube 17 carried by the bars 16 rockably supports a treadle 18 which acting through a rod 19 may be employed for controlling effective operation of the transmitter 12 in a manner well known in the art.

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Various types of sewing machines with either a vertical or inclined bracket-arm may be mounted on the above mentioned table-top. However, the sewing machine 10 shown in the illustrated embodiment has an inclined bed 21 and a vertically positioned overhanging bracket-arm 22. The bracket-arm 22 is provided with the usual sewing machine mechanisms including a combination belt-pulley and hand-wheel 23, stitch regulator 24, tension device 26, presser-bar 28, face plate 29, needle bar 31, and presser-foot 32. The sewing machine bed 21 is fastened to the table-top 11 in a known manner by means of a pair of hinges 33.

The illustrated unitary electric motor and power transmitter 12 is similar to that shown and described in the U. S. Patent of W. J. Peets et al., No. 2,004,055. The transmitter 12 among other items is provided with the usual supporting frames 34 and 36, a motor 37, a clutch (not shown) a clutch-guard 38, a clutch operating arm 39, pulley 41 and pulley shield 42. The motor-transmitter 12 drives the pulley 41, which in turn drives a belt 43 and the sewing machine 10.

The new and improved table-top 11 includes a main horizontal member 44, having horizontally disposed left and right supporting surfaces 46 and 47, respectively. The surface 47 provides a convenient support for tools, and the surface 46 provides a support for unfinished work. Intermediate the surfaces 46 and 47, the table-top is built up locally to provide three sloping supporting surfaces 48, 49 and 51. The surface 48 is upwardly inclined from the front toward the rear of the table and provides a support for the sewing machine bed 21. The surface 49 declines toward the rear of the sewing machine table and thereby facilitates gravitation of the work down this surface. The surface 51, located between the left horizontal surface 46 and the sewing machine 10, slopes upwardly from the surface 46 and blends into the surfaces 48 and 49, thereby facilitating the movement of work from the surface 46 to the sewing machine. The sloping surface 51 also provides a convenient support for the left arm of the sewing machine operator.

As indicated, the three sloping surfaces 48, 49 and 51 blend into one another by means of smoothly rounded edges. The surface 48 merges into the surface 49 by way of a horizontally ex-

tending rounded edge 52 spaced slightly rearwardly from the hinges 33 and disposed substantially parallel to the front edge of the bed-plate 21. The surface 51 merges into the surfaces 48 and 49 by way of sloping rounded edges 53 and 54, respectively; the apex of the obtuse angle formed by the edges 53 and 54 merging smoothly into the edge 52 at a location indicated by the number 56. It will also be noted that the lowermost edges of the sloping surfaces 48, 49 and 51 are provided with rounded portions 57, 58 and 59, respectively.

In the operation of the sewing machine, the improved sewing machine table is used in the following manner. An operator, sitting in front of the sewing machine table, places her feet on the treadle 18. The horizontal surface 43 to the left of the operator may serve as a support for the work. The horizontal surface 41 to the right of the operator will support any tools, such as scissors, etc., that the operator may desire to have at hand. With the left hand, the operator shoves or slides a work-article from the horizontal surface 46 over the rounded edge 53 and up the sloping surface 51 past the rounded edge 53 and thence to the sewing position in the vicinity of the needle and presser-foot 32. During the sewing operation, the left arm of the operator will comfortably rest on the upward sloping surface 51. After a piece has been sewed, the finished article will be moved from the sewing machine past the rounded edge 52 and onto the declining surface 49. As soon as the piece is on the surface 49, the force of gravity combined with any slight vibration of the sewing machine table functions to move the piece down the surface and out of the way of other pieces, that are to follow. This makes it unnecessary for the operator to continually shove and push finished pieces toward the rear of the sewing table, as is necessary in prior art constructions. In this connection it will be noted that the inclined surface 48, inclined bed 21, and the vertically positioned bracket-arm 22 cooperate to make the sewing point easily visible to the operator.

From the foregoing it will be perceived that this invention has provided a new and improved table-top for sewing machine tables which, greatly facilitates movement of work to and from the sewing machine, provides the operator with a proper view of the sewing operation, and which also allows the operator to work in a position that is comfortable and therefore not tiring.

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

1. In a table for a sewing machine, a table-top comprising a first supporting surface of extended area inclined upwardly from the front toward the rear of the table and arranged to support the complete sewing machine, a second supporting surface of extended area declining toward the rear of the table and arranged to facilitate movement of work away from the sewing machine, and a third supporting surface of extended area sloping upwardly from the left side of the table, said third surface being so constructed and arranged as to facilitate the movement of work toward the sewing machine and to support the left arm of an operator.

2. In a table for a sewing machine, a horizontally disposed table-top, a plurality of legs for supporting the said table-top, and a plurality of built-up supporting surfaces of extended area positioned at an intermediate point on the upper

surface of the said table-top; one of the said supporting surfaces being inclined upwardly from the front toward the rear of the table for supporting a complete sewing machine, a second of the said supporting surfaces declined toward the rear of the table to facilitate movement of work away from the sewing machine, and a third surface sloping upwardly from the left side of the table and arranged to facilitate the movement of work toward the sewing machine.

3. In a sewing machine table that includes supporting legs, a table-top, a built up portion of the said table-top having a surface of extended area that inclines upwardly from the front toward the rear thereof and which built up portion is capable of supporting a complete sewing machine, a built up portion of the said table-top having a surface of extended area that declines to the rear thereof beyond the sewing machine, the improvement which comprises the provision of a built up portion of the said table-top having a surface of extended area that slopes upwardly from the left side thereof.

4. In a table for a sewing machine, a table-top comprising a first supporting surface of extended area inclined upwardly from the front toward the rear of the table and constructed and arranged to support a sewing machine, a second supporting surface of extended area declining toward the rear of the table and constructed and arranged to facilitate movement of work away from the sewing machine, and a third supporting surface of extended area sloping upwardly from the left side of the table, constructed and arranged to facilitate the movement of work toward the sewing machine and to support the left arm of an operator; the said first supporting surface merging with the said second supporting surface by way of a horizontally extending rounded edge, and the said third supporting surface merging with the said first and second supporting surfaces by way of inclined rounded edges.

5. In a sewing machine table that includes supporting legs, a table-top, a first built up portion of the said table-top having a surface of extended area that inclines upwardly from the front toward the rear thereof, and a second built up portion of the said table-top having a surface of extended area that declines to the rear thereof; the improvement which comprises the provision of a built up portion of the said table-top having a surface of extended area that slopes upwardly from the left side thereof, and which merges into the said first and second built up portions by means of sloping rounded edges.

6. A table-top for sewing machines comprising a plurality of differently sloping work supporting surfaces of extended area, and rounded edges arranged to merge the said sloping surfaces smoothly into one another; one of the said merging edges being spaced slightly rearwardly and parallel to the rear edge of the sewing machine, and another of the said edges being spaced to the left of and at an angle with the said sewing machine.

7. In a table for a sewing machine, a table-top comprising a first supporting surface of extended area inclined upwardly from the front toward the rear of the table and so constructed and arranged as to support a complete sewing machine; a second supporting surface of extended area declining toward the rear of the table and so constructed and arranged as to facilitate movement of work away from the sewing machine, and a third supporting surface of extended area sloping upwardly from

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the left side of the table, so constructed and arranged as to facilitate the movement of work toward the sewing machine and to support the left arm of an operator; the said first supporting surface merging with the said second supporting surface by way of a first horizontally extending rounded edge, and the said third supporting surface merging with the said first and second supporting surfaces by way of second and third inclined rounded edges respectively; the first edge being spaced slightly rearwardly from the back edge of the sewing machine, the second edge being spaced to the left of the sewing machine, and the third edge being spaced rearwardly of the second edge.

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