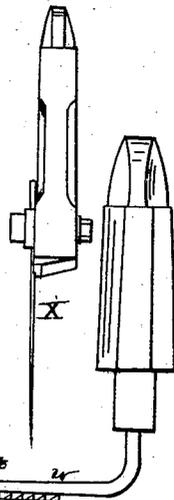
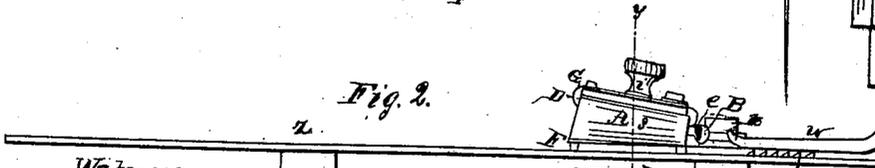
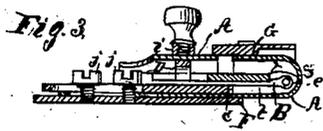
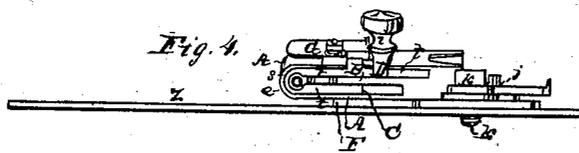
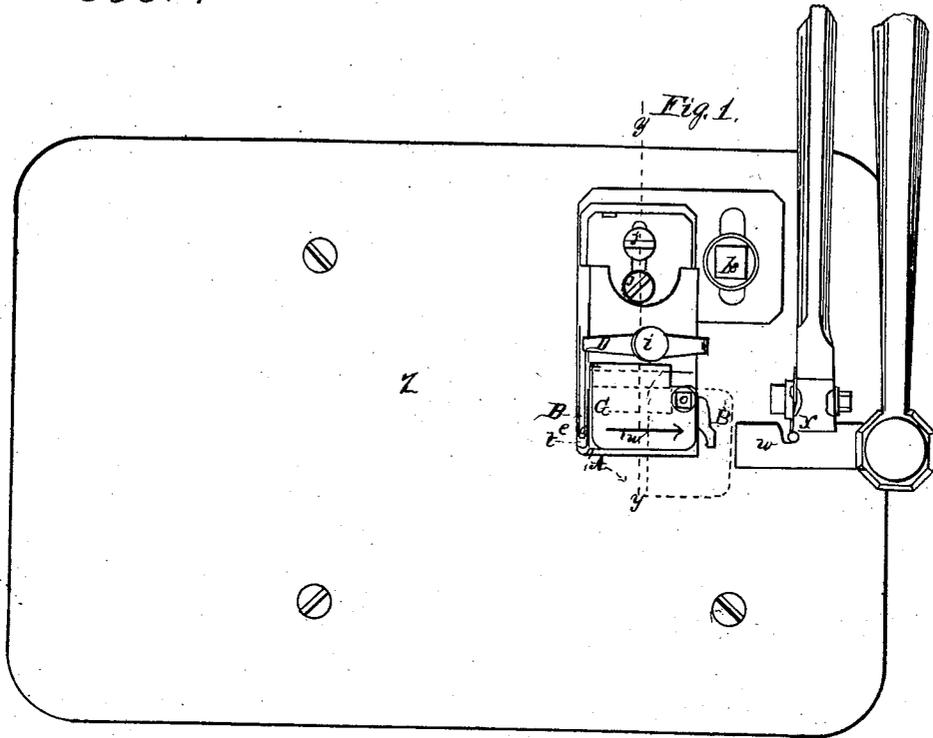


S. D. Tucker. Sewing Machine Guide.

Patented Nov. 26, 1861.

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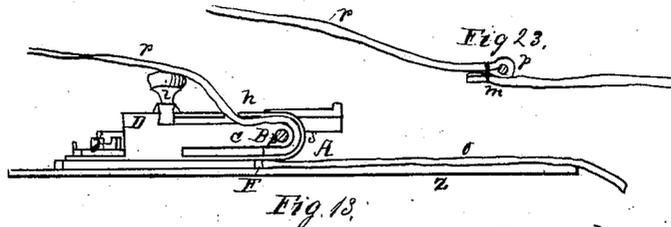
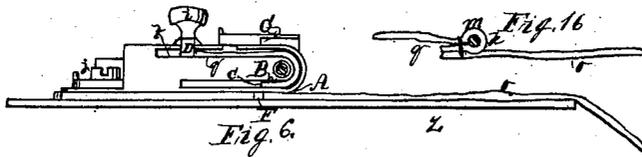
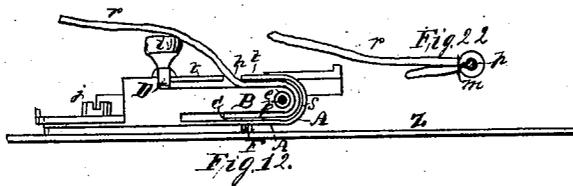
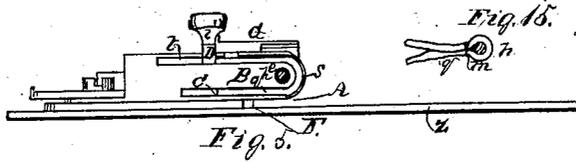
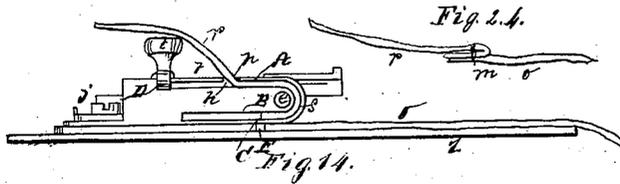


Witnesses:
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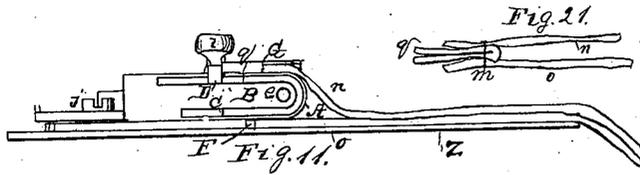
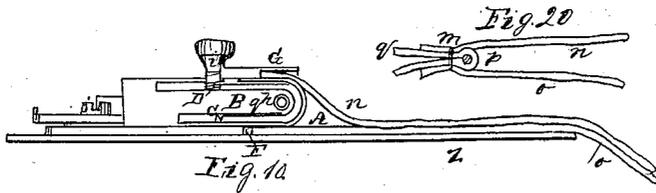
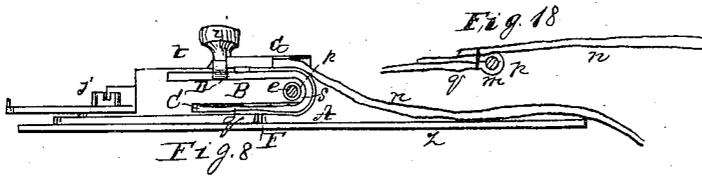
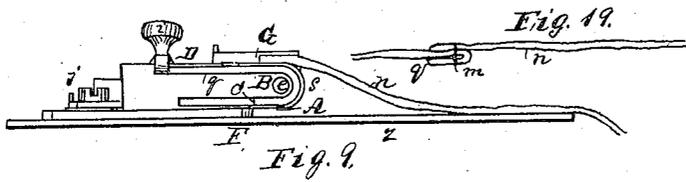
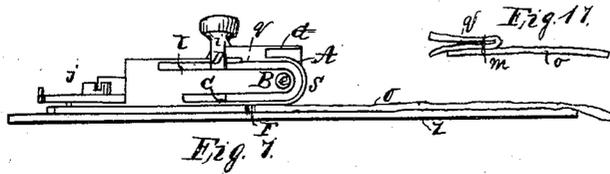
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UNITED STATES PATENT OFFICE.

SYDNEY D. TUCKER, OF TROY, NEW YORK, ASSIGNOR TO CALVIN S. SILL,
OF SAME PLACE.

IMPROVEMENT IN CORDING-GUIDES FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 33,817, dated November 26, 1861.

To all whom it may concern:

Be it known that I, SYDNEY D. TUCKER, of the city of Troy, in the county of Rensselaer and State of New York, have invented a certain new and Improved Guide for Sewing-Machines, (which invention I have assigned to Calvin S. Sill, of the same place;) and I do hereby declare that the following is a full and exact description of my said invention, reference being had to the annexed drawings, in which the same letters of reference indicate like parts in all the figures.

In the annexed drawings, Figure 1 is a plan and Fig. 2 a side view of one of my improved guides applied, as when in use, to the cloth-bed Z of a sewing-machine. Fig. 3 is a section of the same guide at or near the line *y y* in Figs. 1 and 2. Fig. 4 is a view of the narrow end of the guide, where the cloth leaves it. Figs. 5, 6, 7, 8, 9, 10, 11, 12, 13, and 14 show the wide end of the guide, where the cloth enters, and some of the various ways in which the materials to be sewed may be drawn through the implement. Figs. 15, 16, 17, 18, 19, 20, 21, 22, 23, and 24 represent cross-sections of the seams of the variously-arranged materials just after being drawn through the guide and stitched together by a sewing-machine, which latter may be of any of the kinds in common use.

X is the needle, *w* the pressing-foot, and *v* the feeding-teeth, of a sewing-machine.

The arrow *u*, Figs. 1 and 2, indicates the direction in which the sewing-machine draws the materials through the guide.

In the improved sewing-machine guides shown by the annexed drawings, A is a tapered U-shaped shell, and B is a tapered core arranged within the shell, so as to leave a tapering U-shaped space, *t*, between the shell and the core.

C and D are guides, by which the space between the core and shell is limited in length on each side of its bend, and *e* is a cord-guiding aperture arranged through the core B, and just inside of its end.

F and G are two guides, arranged outside and on the flattened parts of the shell A, so that each of these guides presents a ledge or shoulder on the side next to the bend *s* in the shell.

The shell A is so disconnected from the core

B on one side as to leave a passage, *h*, Figs. 12, 13, and 14, through which may extend a piece of cloth, *r*, wider than the length of the space between the core and shell.

To use this sewing-guide it is fastened upon the cloth-bed Z of a sewing-machine, with that side uppermost which has the passage-way *h*, and with the narrowest end of the tapered shell nearest to the feeding and stitching devices of the sewing-machine, and so that when the ends of the materials *r q p o n* are passed through the sewing-guide and the sewing and feeding devices are put in action upon them the sewing-machine will then draw the materials along and through the guide, and thereby fold and lay them together and unite them by a seam, *m*, all substantially as indicated by the annexed drawings.

The guides C and D can be separately set at different distances from the bend *s*, so as to guide both edges of strips of cloth or binding *q*, of different widths, through the space between the shell and core, and cause the fold to be made either in the middle or nearer to either edge of the strip of cloth or binding, as indicated by Figs. 5, 6, 8. The guides C, D, and F are set at different distances from the bend *s* in the shell A by means of set-screws *i* and *j j*, and the screw *k* secures the whole sewing-guide to the cloth-bed Z, as shown by the annexed drawings; but any other suitable or equivalent devices may be employed for those purposes. However, the three guides C, D, and F need not be adjustable, as above specified, when the sewing-guide is to be used for folding only one width of binding at only one distance from its edge and laying the folded binding upon a broad piece of cloth at only one distance from the edge of the latter, or when the sewing-guide is to be used for only one size and kind of work of the character shown by either Figs. 16, 17, 18, 19, 20, 21, 22, 23, or 24.

When my improved sewing-guide is arranged upon and used with a sewing-machine, as above set forth, various kinds of work may be produced by the different combinations of parts of which the sewing-guide consists. For example, a narrow strip of cloth or binding, *q*, will be folded together and a cord, *p*, laid therein, as shown by Fig. 15, by means of the

combination, as shown by Fig. 5, of the two inside guides, C and D, cord-guiding aperture *e*, tapered bending shell A, and tapered bending core B; and, as shown by Fig. 22, a wide piece of cloth, *r*, will be folded along one edge and a cord, *p*, laid therein, and the "right" or "face" side of the seam *m* or stitches left on the right or face side of the piece of cloth or garment, by means of the combination and arrangement, as shown by Fig. 12, of the lower inside guide, C, cord-guide *e*, tapered bending shell A, bending core B, and the cloth-passage *h*, between the upper side of the core and the shell; and, as shown by Figs. 23 and 24, a part of a garment or wide piece of cloth, *r*, will be folded along one edge and laid, with or without a cord, *p*, in the fold upon and along the edge of another wide piece of cloth, *o*, and stitched thereto, so that the right side of the seam will be on the face or outer side of the united pieces of cloth or garment, by the use of the combination, as indicated in Figs. 13 and 14, of the lower outside guide, F, lower inside guide, C, cloth-passage *h*, bending shell A, and core B, with or without the cord-guiding aperture *e*; and, as shown by Figs. 16, 17, 18, and 19, a binding or narrow strip of cloth, *q*, will be folded together and laid along and upon or beneath the edge of a broad piece of cloth, *o* or *n*, with or without a cord, *p*, in the folded binding, by the use, as indicated in Figs. 6, 7, 8, and 9, of the combination of the lower outside guide, F, or the upper outside guide, G, and the two inside guides, C and D, the bending shell A, and the core B, with or without the cord-guiding aperture *e*; also, as indicated in Figs. 10 and 11, by the use of the combination of the two outside guides, F and G, and the two inside guides, C and D, with the shell A and core B, with or without the cord-guiding aperture *e*, a binding, *q*, will be folded and laid along and between the edges of two pieces of cloth, *o* and *n*, with or without a cord, *p*, in the fold in the binding, as illustrated by Figs. 20 and 21.

I am aware that adjustable hemming-guides and guides for cording and devices for both hemming and cording simultaneously have

been heretofore contrived for use with sewing-machines, examples being shown in Nos. 20,245, 25,255, 10,386, and 12,826 of United States Letters Patent for inventions, and I do not claim any such devices.

Having thus described my improved guide for sewing-machines, what I claim thereof as new and of my invention, and desire to have secured by Letters Patent to the aforesaid Calvin S. Sill, as the assignee of all my right and title thereto, is—

1. The arrangement of the lower outside guide, F, with the bending shell A, core B, and two inside guides, C D, as and for the purpose herein specified, and shown by Figs. 7 and 17.

2. The arrangement of the cord-guiding aperture *e* with the bending shell A, core B, inside guides, C D, and lower outside guide, F, as and for the purpose herein specified, and shown by Figs. 6 and 16.

3. The arrangement of the upper outside guide, G, with the bending shell A, core B, and two inside guides, C D, as and for the purpose herein specified, and shown by Figs. 9 and 19.

4. The arrangement of the cord-guide *e* with the bending shell A, core B, inside guides, C D, and upper outside guide, G, as and for the purpose herein specified, and shown by Figs. 8 and 18.

5. The arrangement of the two outside guides, F G, with the folding shell A, core B, and two inside guides, C D, as and for the purpose herein specified, and shown by Figs. 11 and 21.

6. The arrangement of the cord-guiding opening *e* with the bending shell A, core B, two inside guides, C D, and two outside guides, F G, substantially as and for the purpose herein specified, and shown by Figs. 10 and 20.

7. The arrangement of the cloth-passage *h* in the upper side of the folding shell, as and for the purpose herein specified, and shown by Figs. 12, 13, 14.

SYDNEY D. TUCKER.

Witnesses:

AUSTIN F. PARK,
A. C. FELLOWS.