(No Model.)

P. SCHOEN.

GUIDE FOR TWO NEEDLE SEWING MACHINES.

No. 529,416. Patented Nov. 20, 1894.

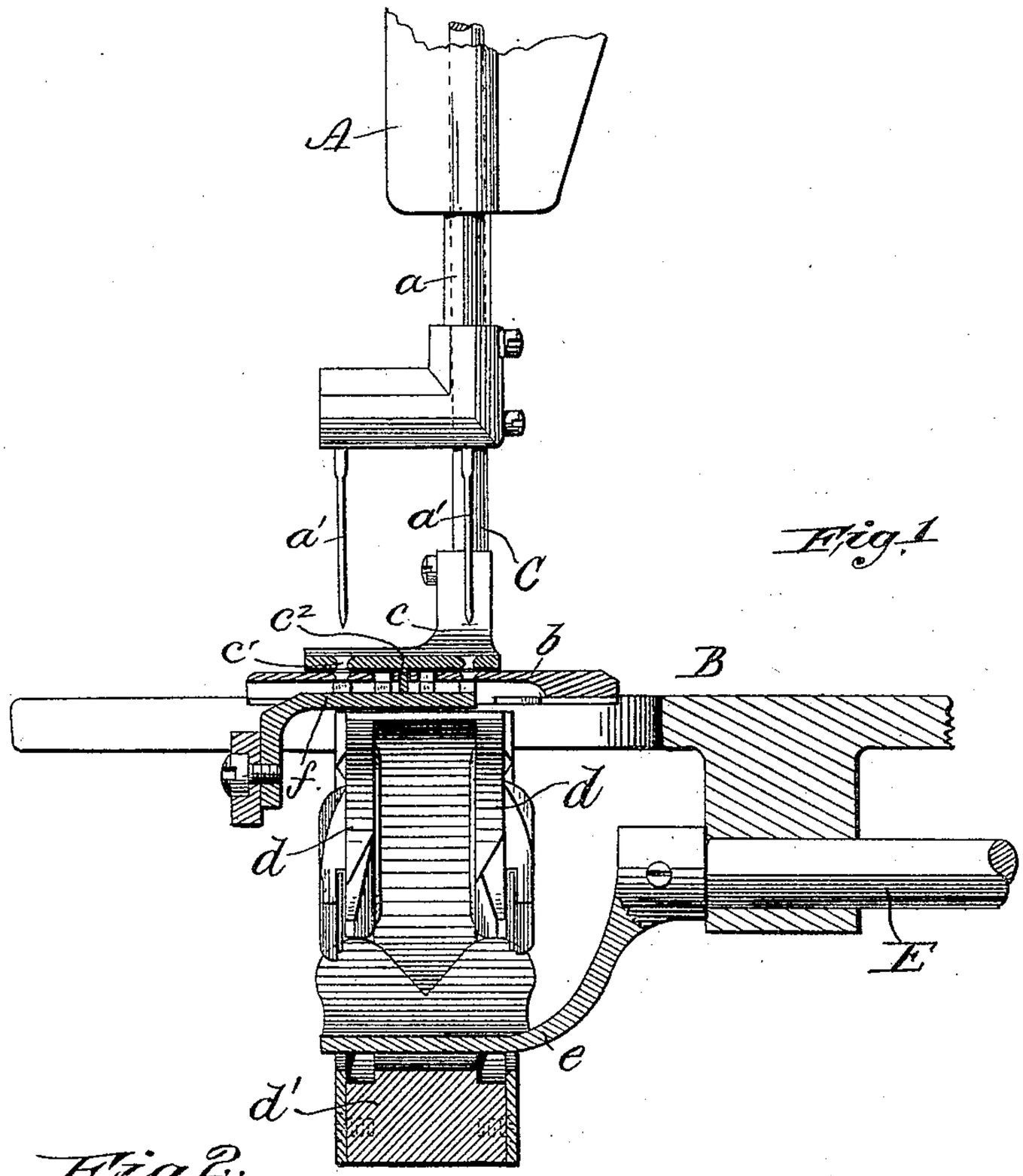


Fig. 1.

Fig. 2.

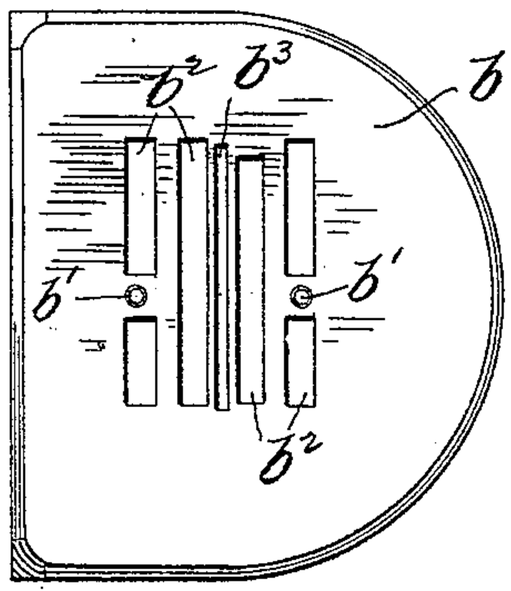


Fig. 3.

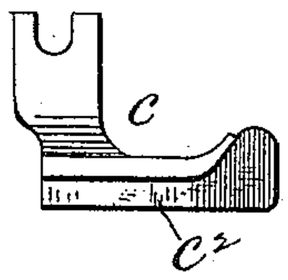
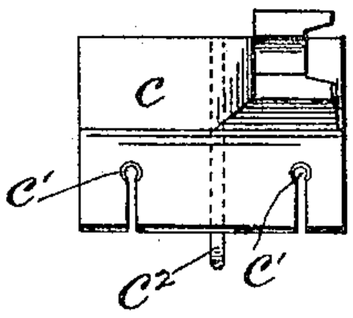


Fig. 4.



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UNITED STATES PATENT OFFICE.

PAUL SCHOEN, OF GLENS FALLS, NEW YORK, ASSIGNOR TO THE SINGER MANUFACTURING COMPANY OF NEW JERSEY.

GUIDE FOR TWO-NEEDLE SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 529,416, dated November 20, 1894.

Application filed March 13, 1894. Serial No. 503,462. (No model.)

To all whom it may concern:

Be it known that I, PAUL SCHOEN, a citizen of the United States, residing at Glens Falls, in the county of Warren and State of New York, have invented certain new and useful Improvements in Guides for Two-Needle Sewing-Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

In that class of sewing machines provided with two needles and two shuttles or other complemental stitch forming devices co-operating with said needles for producing two independent seams, it is frequently desirable, as in the use of such machines on collar and cuff work, to employ the same for simultaneously sewing two separate pieces of work which may be fed into the machines independently of each other.

My invention has for its object to adapt two-needle sewing-machines to the use just stated, and this object is accomplished by providing the presser-foot and work-plate, the one with a slot and the other with a dividing-guide extending into said slot, said guide being arranged midway between the said needles, and thereby serving as a gage against which either piece of work may be directed to the needles, while being held separated from each other by the said dividing-guide; the latter preferably extending both forward and backward of the needles so as to hold the pieces of work entirely separate from each other until they have passed beyond the presser-foot.

In the accompanying drawings Figure 1 is a sectional elevation of a portion of a two-needle and two-shuttle sewing-machine with my invention applied thereto. Fig. 2 is a plan view of the throat plate of a two-needle machine having a slot for the reception of the dividing-guide, and Figs. 3 and 4 are side and plan views, respectively, of a presser-foot, for a two needle machine, provided with a dividing-guide in accordance with my invention.

A denotes a portion of the head of a sewing-machine, and *a* the needle bar carrying the two needles *a'*.

B denotes a portion of the work-plate of the machine, and *b* the throat-plate provided with the needle openings *b'*, the feed openings b^2 and the slot b^3, the said slot being centrally disposed with reference to the needle holes or openings.

C is the presser-bar to which is attached the presser-foot *c* provided with the needle openings *c'*, and having on its under side, midway between said needle openings, the dividing-guide c^2 which preferably extends from in front of the toe of the presser foot to the heel thereof, and is therefore of a proper length to loosely fit in the slot b^3 in the throat plate to serve as a gage against which the edges of two separate pieces of work may be held in being guided to the needles.

I have herein illustrated my invention as being applied to a "Singer" oscillating shuttle machine provided with two shuttles *d* running in suitable races formed in the shuttle race block *d'*, and operated by the shuttle-driver *e* attached to the oscillating shuttle operating shaft E, which latter is actuated as is usual in the well-known "Singer" oscillating shuttle machine.

From the foregoing it will be apparent that the duplicate stitch-forming mechanisms of the machine herein shown are, by the use of my dividing-guide placed between the needles thereof, adapted to operate, in a measure, as two independent machines, in that the work for either needle may be guided and manipulated quite independently of the work for the other needle, and the machine is therefore suited for double duty, sewing at the same time two separate pieces of work which may be fed forward by the usual feeding device *f*, said separate pieces of work being started into the machine either simultaneously or successively, as may be convenient for the operator.

It will be obvious that instead of having the dividing-guide on the presser-foot extending downward into a slot in the throat-plate, as herein shown, this construction may be reversed by having a dividing-guide on the throat-plate extending upward into a slot in the presser-foot, without departing from the essential feature of my invention.

Having thus described my invention, I claim and desire to secure by Letters Patent—

1. In a sewing machine, the combination with two needles and two complemental stitch-forming devices co-operating there-

with, to form two independent seams, of a presser foot and a work-plate, one of which is provided with a dividing guide arranged in a line between said needles, and the other of which has a slot into which said guide projects.

2. In a sewing machine, the combination with two needles and two complemental stitch-forming devices co-operating therewith, to form two independent seams, of a presser-foot and a work-plate one of which is provided with a dividing guide arranged between and extending both forward and backward of said needles and in the line of the feed of the work, and the other of which has a slot into which said guide projects.

3. In a sewing machine, the combination with two needles and two complemental stitch forming devices co-operating therewith, to form two independent seams, of the presser foot *c* provided with the dividing guide c^2 arranged between and extending both forward and backward of the said needles, and the throat-plate *b* having the slot b^3 into which said guide extends.

In testimony whereof I affix my signature in presence of two witnesses.

PAUL SCHOEN.

Witnesses:
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