

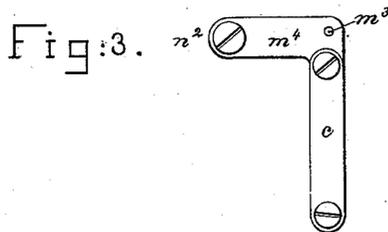
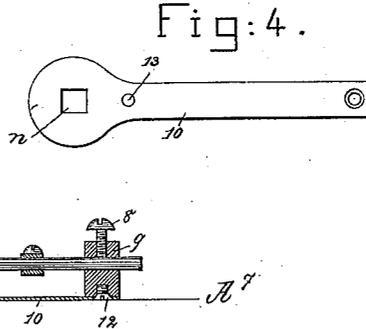
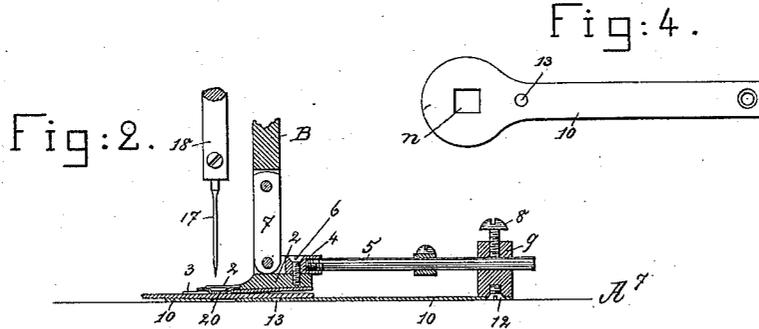
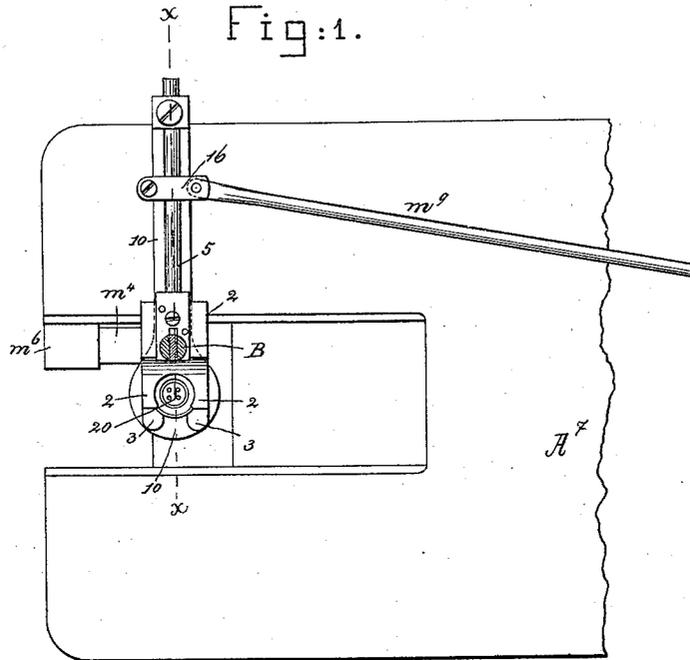
(No Model.)

L. J. DRISCOLL.

MECHANISM FOR SEWING ON BUTTONS.

No. 309,210.

Patented Dec. 16, 1884.



Witnesses.
Arthur Lipperlen.
Henry Marsh

Inventor.
Lawrence J. Driscoll
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UNITED STATES PATENT OFFICE.

LAWRENCE J. DRISCOLL, OF SOMERVILLE, MASSACHUSETTS.

MECHANISM FOR SEWING ON BUTTONS.

SPECIFICATION forming part of Letters Patent No. 309,210, dated December 16, 1884.

Application filed February 8, 1884. (No model.)

To all whom it may concern:

Be it known that I, LAWRENCE J. DRISCOLL, of Somerville, county of Middlesex, State of Massachusetts, have invented an Improvement in Mechanism for Sewing Buttons on Fabrics, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

10 This invention is an improvement upon that described in application No. 114,171, filed December 11, 1883, and to which reference may be had. In that application the button is shown as placed under and between the prongs
15 of a button-centering device, and the fabric to which the button is to be secured is laid upon the button-centering device, and is held down upon the said centering device by a presser-foot, which latter is permitted to vibrate with the centering device as it moves the
20 button over the cloth-plate, which latter is stationary. In this my present invention I have constructed a button-centering device which is adapted to receive the button, and
25 to be lowered to place the rear side of the button against the cloth, resting on a plate placed above the bed-plate of the machine, and having an opening for the passage of the needle. The centering device herein shown is com-
30 posed of a block provided with a spring, and a connected base-plate provided with a central opening, the button being held between the said spring and block, while the cloth or material is held between the said spring and the
35 base-plate, the said centering device being so pivoted that it may be vibrated, to place first one and then another eye of the button under the descending needle, and the block of the centering device is connected by a suitable
40 joint with the presser-bar, so that the usual spring which holds it down is also made available to hold and bear the block and the button under it down upon the fabric or other material interposed between the spring at-
45 tached to the said block and the upper side of the base-plate of the centering device, which base-plate rests close to and moves over the surface of the usual cloth or bed plate of the machine above the needle-hole. The block is
50 made detachable from the rest of the centering device to enable other blocks of different

size to be employed, according to the size of the button being used.

Figure 1 is a top view of a sufficient portion of a sewing-machine which, taken in connection with the application referred to, will enable one conversant with sewing mechanism to understand my invention; Fig. 2, a partial section in the line *x x*, Fig. 1; Fig. 3, a detail to be referred to, and Fig. 4 an under
60 side view of the button-centering device.

The bed-plate *A*, the connecting-rod *m*², and the presser-bar *B*, lug *m*⁶, adjustable arm *m*⁴, having a fulcrum-pin, *m*³, and link *c*, and means for moving and for holding the same
65 are and will be as in my said application, wherein like parts are designated by like letters.

The button-centering device is composed of the following parts—viz., block 2, spring 3,
70 rod 5, standard 9, and plate 10. The forked spring 3 is riveted or otherwise attached to the said block. The block 2 is secured to a head-piece, 4, of a rod, 5, by a screw, 6, and the head-piece, as herein shown, is jointed by
75 link 7 with the usual presser-bar, *B*, which in practice is substantially such as employed in the Wheeler & Wilson machine No. 10. This rod 5 is adjustably held by screw 8 in a stand-
80 ard, 9, having attached to it by screw 12 the plate or under member, 10, of the centering device, the said plate being preferably made as a thin steel plate extended forward beyond and under the needle, and provided with a
85 large opening, *n*, for the passage of the needle, as shown in Fig. 4, the opening being of greater diameter than the greatest distance between any two eyes of any button to be stitched fast. This under plate also has a center hole, 13,
90 which receives the fulcrum-pin *m*³ of the arm *m*⁴, referred to. As the connecting-rod is moved longitudinally, as described in my application referred to, it, through the clamp-
95 ing-block 16, adjustably attached to the rod 5, causes the said centering device to be vibrated after each rise of the needle 17 and needle-bar 18, to thus place one and then another eye of the button 20 under the said needle. When the button has four eyes, the arm *m*⁴ will be moved by the link *c*, and by other devices con-
100 nected therewith, as described in my said application. After two holes of the button have

been filled with thread, the button-centering device, owing to the link 7 between the block 2 and the presser-bar B, may be freely moved forward in unison with the arm m^t , to provide for placing under the needle the two holes of the button next to be entered by the needle. Lifting the presser-bar in the usual manner lifts the block which receives the button, so that the fabric or material upon which the button is to be secured may be placed between the spring attached to the block and the upper side of the base-plate of the button-centering device.

I claim—

15 The presser-bar and the button-centering device, composed of the block, the spring, the

rod, the standard 9, and the connected plate 10, provided with an opening and adapted to be pivoted with relation to the bed-plate, combined with a pivot for the said centering device, a link to connect the button-centering device with the presser-bar, and with a movable connecting-rod to vibrate the said button-centering device, substantially as described. 20

In testimony whereof I have signed my name 25 to this specification in the presence of two subscribing witnesses.

LAWRENCE J. DRISCOLL.

Witnesses:

G. W. GREGORY,
W. H. SIGSTON.