(Model.)

A. E. CHOQUETTE.

SEWING MACHINE.

No. 244,033. Patented July 12, 1881.

Fig. 7.

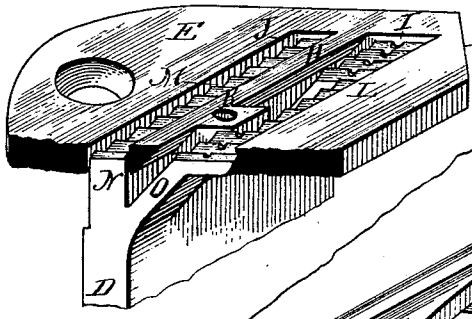

Fig. 1.

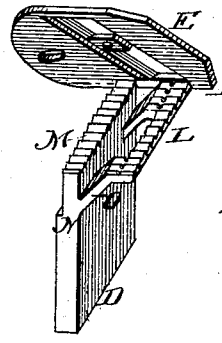

Fig. 3.

Fig. 4.

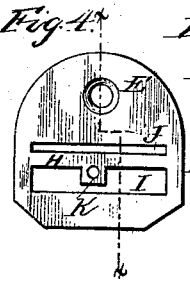

Fig. 5.

Fig. 6.

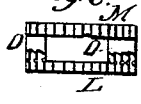

Fig. 2.

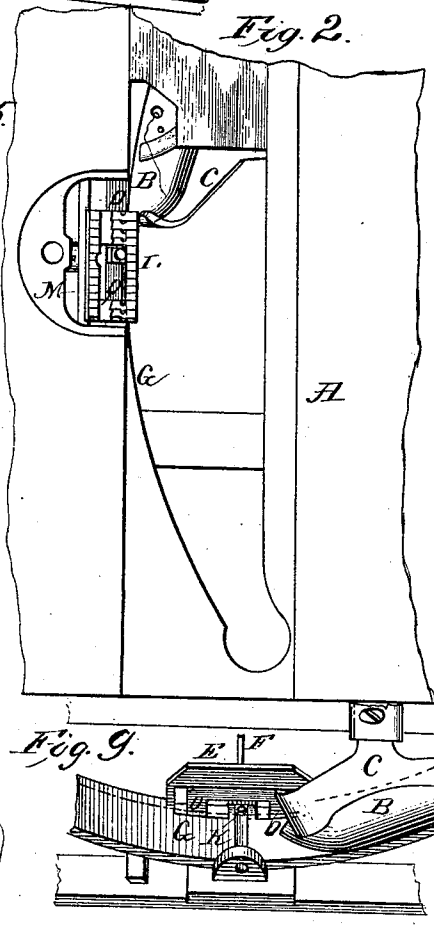

Fig. 8.

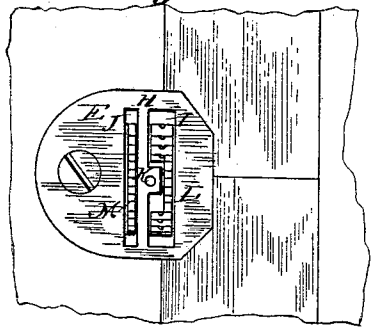

Fig. 9.

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UNITED STATES PATENT OFFICE.

ALFRED E. CHOQUETTE, OF MILWAUKEE, WISCONSIN.

SEWING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 244,033, dated July 12, 1881.

Application filed December 27, 1880. (Model.)

To all whom it may concern:

Be it known that I, ALFRED E. CHOQUETTE, a citizen of the United States, residing at the city of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Sewing-Machines; and I do 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 appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in the feeding devices of sewing-machines, and pertains to that class in which a reciprocating shuttle is used.

Heretofore the feeding-dog of said class of sewing-machines has usually been confined and adapted to be used in rear and upon the outward side only of the needle.

The object of my improvement is to extend the feeding-dog to the inward side of the needle, whereby it is adapted to do certain classes of work that cannot be done by the common feeding-dog. By my construction of the feeding device and needle-plate the feeding-dog is interposed between the shuttle and needle-plate without raising or changing its proportions or without cutting or changing the construction of the shuttle-race, and without lessening the stroke of the feed-cam, or without in any manner changing the other parts of the machine.

My invention consists in and is confined to the peculiar construction of the feed-dog and needle-plate, all of which is further explained by reference to the accompanying drawings.

Figure 1 represents a perspective view, in detail, of a machine with needle-plate removed, showing the relative position of the shuttle to the feed-dog when passing it. Fig. 2 is a top view of the same. Fig. 3 is a perspective view of the feed-dog and needle-plate removed from the machine. Fig. 4 is a top view of the needle-plate. Fig. 5 is a vertical section of the needle-plate, drawn on line *x x* of Fig. 4. Fig. 6 is a top view of the feed-dog. Fig. 7 is an enlarged perspective view of the feed-dog and needle-plate, the latter being represented partly in section. Fig. 8 is a top view of the needle-plate and feed-dog. Fig. 9 is a perspective view from below the needle-plate.

Like parts are represented by the same reference-letters throughout the several views.

A represents the base-plate of the sewing-machine. B is the shuttle. C is the shuttle-carrier. D is the feed-dog. E is the needle-plate. F is the sewing-needle. G is the shuttle-race.

It is obvious that in those machines having a single opening for the respective series of feed-teeth, conforming in width to the feed-dog, the fabric being sewed is liable to drop into the opening in front of the feed-dog and be thus retarded and damaged; but in my machine the opening in the needle-plate for the feed-dog is divided by the intermediate bar, H, thus forming two openings or slots, I and J, and the bar H supports the fabric as it is being fed over the opening, and thus removes the liability of its being caught or damaged as mentioned. The intermediate bar, H, also serves as a means of supporting the eyelet K, which is formed therein beneath the needle.

The series of teeth L is made double at its respective ends only, space being left near its center for the eyelet of the needle-plate.

By my improvement the inward or right-hand series of feed-teeth, L, are supported by and formed upon an angular V-shaped bracket, O, which drops below the intermediate bar and is connected with the shank N beneath it, as shown in Figs. 3 and 7. Thus it is obvious that the inward or right-hand series of teeth are firmly supported at its respective ends without severing the intermediate bar, and as the intermediate bar is also supported at each end it may consequently be made lighter and smaller. The lower sides of the intermediate bar, H, is formed in an angular V shape, conforming in shape to the space between the angular bracket O and the shank N, whereby ample space is provided for the movement of the feed-dog beneath the needle-plate without, as hereinbefore stated, in any manner changing other parts of the machine than the needle-plate and feed mechanism.

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

1. In that class of sewing-machines provided with a reciprocating shuttle, a needle-plate

provided with two slots for the reception of two full series of feed-teeth, and a triangular-shaped intermediate bar, connected at its respective ends with the needle-plate, at the center of which bar is formed an eyelet, substantially as set forth.

2. The combination of the shank N, angular brackets O, and series of feed-teeth M and L, said series L being supported at its respective ends by angular brackets O, and adapted to be operated upon the right-hand or inward side of the needle, substantially as set forth.

3. The combination of the feed-device, consisting in shank N, brackets O, series of feed-teeth M and L, with the needle-plate E, provided with slots I and J, and angular-shaped intermediate bar, H, connected at its respective ends with the needle-plate and provided with eyelet K, all substantially as and for the purpose specified.

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

ALFRED E. CHOQUETTE.

Witnesses:

JAS. B. ERWIN,

E. G. ASMUS.