(No Model.)

A. W. JOHNSON.

PRESSER FOOT FOR SEWING MACHINES.

No. 282,642. Patented Aug. 7, 1883.

Fig. 1

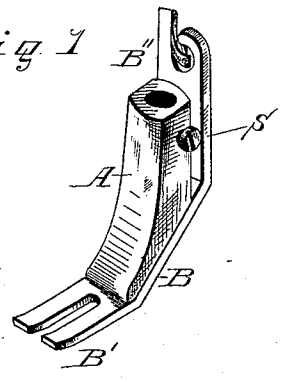


Fig. 2.

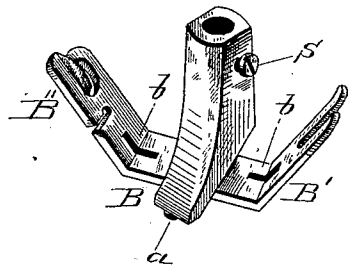
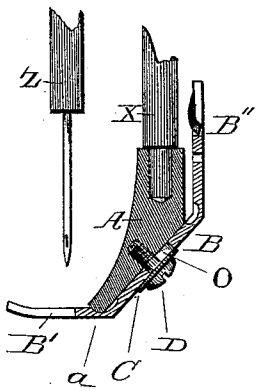


Fig. 3.



Witnesses.
Chas. H. Taylor.
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UNITED STATES PATENT OFFICE.

ALBERT W. JOHNSON, OF NEW HAVEN, CONNECTICUT.

PRESSER-FOOT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 282,642, dated August 7, 1883.

Application filed October 27, 1882. (No model.)

To all whom it may concern:

Be it known that I, ALBERT W. JOHNSON, a citizen of the United States, residing at New Haven, in the county of New Haven and State Connecticut, have invented certain new and useful Improvements in Presser-Feet for Sewing-Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention pertains to that class of presser-feet where two or more feet for different kinds of work are used in connection with one shank or socket attached to the presser-bar of a sewing-machine, and is arranged with the view of facilitating the operation of changing or substituting one foot for another in position for use, and in such a way that the foot not in position under the needle of the machine shall occupy a position entirely out of the way of the operator and of the work being operated upon, without detaching it from the shank, to accomplish which I construct my device substantially in two parts, which I call the "shank" or "socket," and the "foot-piece," said foot-piece being centrally pivoted to the shank and terminating at one end in a presser-foot and at the other end in a hemmer, thus combining in one piece the presser-foot and hemmer-foot, so that when the shank is once adjusted to the presser-bar of the machine it is only necessary to reverse the foot-piece on its pivot in order to substitute one foot for the other in position for use, the parts being provided with a simple self-locking arrangement to prevent the foot-piece from becoming displaced while the machine is in operation. The foot-piece I make in such form that the end not in use occupies a vertical position back of and near the presser-bar of the machine.

In the drawings, Figure 1 is a perspective view of my device. Fig. 2 is a perspective of same as it appears with the foot-piece partially reversed and out of position for use. Fig. 3 is a vertical section, side view.

Similar letters refer to similar parts throughout the several views.

The shank or socket A is provided with a set-screw, S, by means of which it is secured to the presser-bar of a sewing-machine. One end of the foot-piece B is a foot, B′, designed for plain sewing, and the other end of said foot-piece is a hemmer, B″. In the middle part of the foot-piece is a hole, *o*, through which the pivot-screw D passes to attach the foot-piece to the shank A, said hole being elongated to admit of a short longitudinal sliding movement of the foot-piece. Under the head of the pivot-screw D is a spring-washer, C, the object of which is to produce sufficient friction on the foot-piece to hold it in position when raised from the work. In the foot-piece are two slots or notches, *b b*, and on the lower end of the shank A is a projection, *a*, which may be made to engage in either of the slots *b b* to prevent the foot-piece from becoming displaced while the machine is in operation.

X represents a portion of a presser-bar of a sewing-machine; Z, a portion of a needle-bar and needle.

The foot-piece B is bent in such form that the foot at either end lies in a plane practically at right angles to the other, so that the foot not in use under the needle of the machine occupies a vertical position back of and near the presser-bar, while the middle portion of the foot-piece is at an angle of about forty-five degrees from the foot at either end, and it is pivotally attached to the under surface of the shank A, which is inclined to a corresponding angle.

To operate my device, the foot being raised from the bed of the machine, slide the foot-piece downward to disengage the projection *a* on the shank from the slot *b* in the foot; then turn the foot-piece either to the right or left on the pivot-screw until the foot desired is brought into position for use under the needle of the machine, the shank remaining stationary on the presser-bar; then lower the presser-bar in the usual way until said foot rests upon the bed of the machine or upon the work, and the downward pressure of the presser-bar exerted upon the foot forces the projection *a* into the slot *b* in said foot, whereby the foot-piece is locked in position and prevented from becoming displaced while the machine is in operation; or, if preferable, a slight upward sliding movement may be given to the foot-piece to cause the projection *a* to engage in the slot *b* while the foot is raised from the bed of the machine.

It will be seen from the foregoing that when

my device is once adjusted to a machine one foot can be substituted for the other in position for use almost instantly at the will of the operator without removing the shank from the presser-bar, or the necessity for careful adjustment.

I do not desire to confine myself to the use of a hemmer and foot for plain sewing above described, as it is obvious my invention may be applied to feet designed for other kinds of work—such as braiding, cording, &c.

What I claim, and desire to secure by Letters Patent, is—

1. In a presser-foot for sewing-machines, the combination, with a stationary shank, of a reversible foot-piece having its opposite ends formed into distinct feet each lying in a plane practically at right angles to the other, provided with a locking device actuated by the downward pressure of the presser-bar, whereby said foot-piece is securely retained in position while in use, substantially as described.

2. In a presser-foot for sewing-machines, a reversible foot-piece having its opposite ends formed into distinct feet each lying in a plane practically at right angles to the other, centrally pivoted to the under inclined surface of a stationary shank and held in frictional contact therewith by means of a spring washer, in combination with an automatic locking device, whereby said foot-piece is secured and retained in position while in use, substantially as described.

3. In a presser-foot for sewing-machines, the combination of a shank, A, provided with a projection, *a*, with a reversible foot-piece, B, having its opposite ends formed into distinct feet, and provided with slots *b b*, and an elongated pivot-hole, *o*, so arranged that when either foot is brought into position for use the downward pressure of the presser-bar of the machine will cause said projection *a* to engage in one of said slots *b b*, substantially as described and for the purpose set forth.

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

ALBERT W. JOHNSON.

Witnesses:
CHAS. H. TAYLOR,
WILLIAM HULL.