

D. A. SUTHERLAND.

PRESSER-FEET FOR SEWING-MACHINES.

No. 177,296.

Patented May 9, 1876.

Fig. 1.

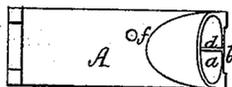


Fig. 2.

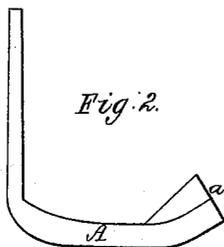


Fig. 3.



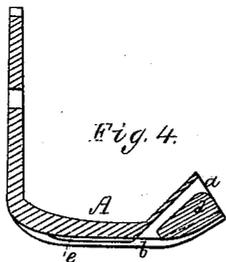
Fig. 5.



Fig. 6.



Fig. 4.



Witnesses.  
*S. W. Piper*  
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# UNITED STATES PATENT OFFICE.

DANIEL A. SUTHERLAND, OF LYNN, MASS., ASSIGNOR TO HIMSELF AND JOSEPH N. SMITH, OF SAME PLACE.

## IMPROVEMENT IN PRESSER-FEET FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. **177,296**, dated May 9, 1876; application filed February 21, 1876.

*To all whom it may concern:*

Be it known that I, DANIEL A. SUTHERLAND, of Lynn, of the county of Essex and State of Massachusetts, have invented a new and useful Sewing-Machine Presser-Foot, it being designed for the folding a strip of leather or material or converting it into a seam-stay, channeling or creasing it to receive the stitches, and guiding it while being sewed to a shoe-upper or other article, the said presser-foot being fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a top view, Fig. 2 a side elevation, Fig. 3 a bottom view, Fig. 4 a longitudinal section, and Fig. 5 a transverse section, of it.

At its toe the foot *A* is turned up at an obtuse angle to its base, and provided with a tapering folding mouth, *a*, which opens into a groove, *b*, formed lengthwise through the said base. The parts *c c* or sides of the groove serve to guide the folded strip or stay, while it, with the shoe-upper, may be in the act of being fed along and sewed together. Within the folding mouth *a* is a thin partition, *d*, that extends a short distance up from the bottom of the said mouth, and is arranged longitudinally thereon. In rear of the folder the foot *A* is provided, within the groove of its base, with two channeling or creasing fillets, *e e*, arranged as represented, the orifice *f*, for the passage of the needle through the foot, going through one of the said fillets.

Fig. 6 represents, on an enlarged scale, a transverse section of a seam-stay, as made by the hereinbefore-described presser-foot, a stay-

piece or strip of material of proper width on being introduced into the folder, and drawn through and pressed upon by the foot, being folded in manner as shown, and grooved as represented at *g g* to receive the stitches. After a row of stitches may have been put into the stay in one of the grooves the work should be turned around so as to bring the other groove of the stay under the needle, in order for the second row of stitches to be made in the latter groove.

Heretofore it has been customary to simply fold a stay-piece without channeling it, in which case the stitches connecting it with a shoe or boot upper by projecting more or less beyond its surface become sooner or later so worn by friction against the dress of the party wearing the shoe as to easily give way or rip, and loosen the connection of the stay. Thus the object of grooving or channeling the stay is to enable the stitches connecting it with a shoe or boot upper to be so laid below its external surface as to be protected from such wear.

I claim as my invention—

A sewing-machine presser-foot, provided with means, substantially as described, for folding and channeling a seam-stay piece, such consisting of the fillets *e e* and of the folder, composed of the tapering mouth *a*, the partition *d*, all being arranged with the guide-groove *b* and needle-hole *f*, as set forth.

DANIEL A. SUTHERLAND.

Witnesses:

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