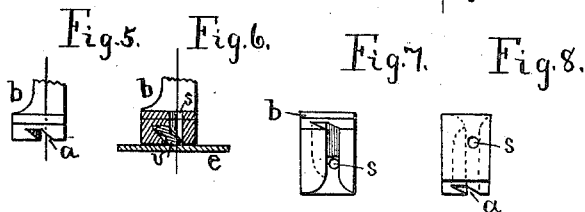
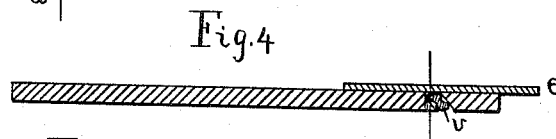
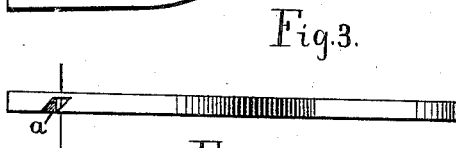
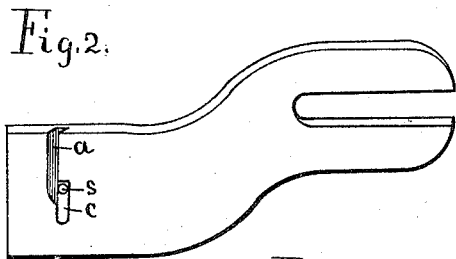
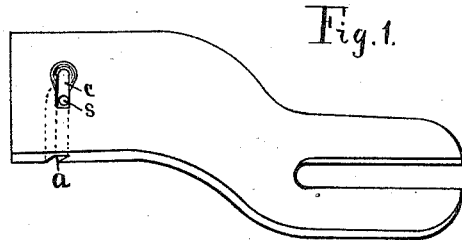


(No Model.)

N. P. POOR.  
SEWING MACHINE BRAIDER.

No. 341,943.

Patented May 18, 1886.



Witnesses  
J. J. Hitzel  
Geo F Robinson

Inventor  
Nelson P. Poor  
By Bradford Howland  
Attorney

# UNITED STATES PATENT OFFICE.

NELSON P. POOR, OF CLEVELAND, OHIO, ASSIGNOR TO THE DAVIS SEWING MACHINE COMPANY, OF WATERTOWN, NEW YORK.

## SEWING-MACHINE BRAIDER.

SPECIFICATION forming part of Letters Patent No. 341,943, dated May 18, 1886.

Application filed May 28, 1884. Serial No. 133,022. (No model.)

*To all whom it may concern:*

Be it known that I, NELSON P. POOR, a citizen of the United States, residing at the city of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a new and useful Improvement in Sewing-Machine Braiders, of which the following is a specification.

The main feature of my invention consists in forming the braider with a slot at the end of the bottom of an inclined or diagonal groove, through which the braid is fed edgewise to the cloth, and the needle passes through the braider and the corner or side of the edge of the braid, as hereinafter more fully set forth.

The object of my invention is to sew the braid to the cloth in such a way that it will stand on its edge with its flat sides substantially at right angles to the cloth.

In the drawings forming a part of this specification, Figure 1 represents the braider, consisting of a metallic plate of suitable form to be attached to a sewing-machine by a screw-bolt in the ordinary manner. The braid is fed through the inclined groove *a* in the under side of the plate and up through slot *c*, where it is sewed to the cloth at the point *s*, which represents the position of the sewing-machine needle. The cloth to which the braid is to be attached is placed bottom side up on the braider. The relative positions of slot *c* and the needle to groove *a* are such that the needle sews the braid to the cloth through what may be termed the "corner," or one side of the edge of the braid, in such manner as to retain the braid in an edgewise position on the cloth. The further end of slot *c* is chamfered or made flaring at the top, in order to facilitate turning the cloth and braid in sewing on the latter in the form of loops or curves. The side of slot *c* at the bottom of the braider opposite notch *s* is inclined or curved to coincide with the inclined side of groove *a*, and guides the braid to an upright edgewise position to the cloth while it is being sewed.

Fig. 2 represents the reverse or bottom side of the braider. The end of slot *c* where the needle passes through forms a notch, *s*, in the diagonal side of groove *a*.

Fig. 3 is an edge view of the braider, and Fig. 4 is a vertical section of the same as viewed from the opposite side. In Figs. 3 and 4 the position of the needle is shown by a vertical line, and the relative positions of the cloth *e* and braid *v* are shown in Fig. 4.

Figs. 5 to 8, inclusive, represent the braider in a suitable form to be attached by soldering or other well-known means to the bottom of the presser-foot of a sewing-machine. Fig. 5 is a front elevation of a presser-foot, *b*, with the braider attached to its bottom; and Fig. 6 is a vertical section of the same, and also showing the cloth *e* and braid *v* in section. Fig. 7 is a bottom view of the braider attached to the presser-foot *b*, and Fig. 8 is a top view of the same detached from the presser-foot.

In Figs. 5 and 6 the position of the needle is indicated by a straight line.

When the braider forms a part of the presser-foot, as shown in Figs. 5, 6, 7, and 8, the right side of the cloth *e* is uppermost, and the cloth with the braid on it is fed under the braider.

I claim as my invention—

A sewing-machine braiding attachment having a braid-guiding passage extending to the needle-hole, the walls of said passage being inclined relative to a vertical plane, and having an extension of said passage beyond the needle-hole, consisting of a slot having one of its walls inclined to coincide with the angle of said passage, substantially as set forth.

N. P. POOR.

Witnesses:

JAS. D. CLEVELAND,  
A. G. MASON.