

W. SNYDER.  
Sewing Machine Guide.

No. 22,987.

Patented Feb. 15, 1859.

Fig. 1.

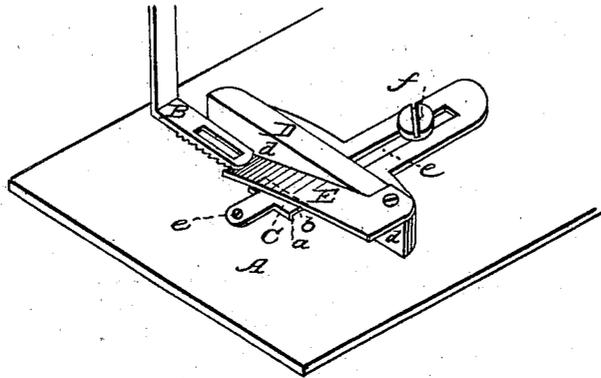


Fig. 2.

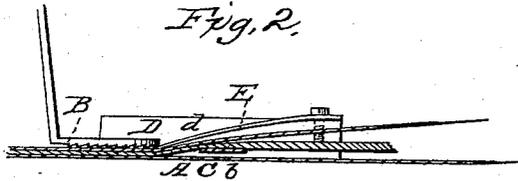
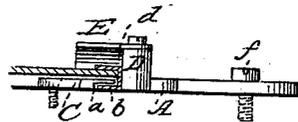


Fig. 3.



Witnesses:

*R. B. Pines*  
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Inventor:

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# UNITED STATES PATENT OFFICE.

WATSON SNYDER, OF NEWARK, NEW JERSEY.

## IMPROVEMENT IN SEWING-MACHINES.

Specification forming part of Letters Patent No. 22,987, dated February 15, 1859.

*To all whom it may concern:*

Be it known that I, WATSON SNYDER, of Newark, in the county of Essex and State of New Jersey, have invented a new and useful Improvement in Binding-Guides for Sewing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a perspective view of a guide constructed according to my invention. Fig. 2 is a longitudinal section of the same. Fig. 3 is a back end view of the same.

Similar letters of reference indicate corresponding parts in the several figures.

My invention consists in the combination, with two fixed guides, one for the under edge of the binding and one for the edge of the fold thereof, of an elastic plate operating in combination with the foot or pressure pad, substantially as herein described, so as to adapt itself to different thicknesses of binding and of the materials to bound for the purpose of effecting the gradual turning over of the binding on the upper surface of the material to be bound, and of holding the same flat as it approaches the foot-piece or pressure-pad.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A is part of the plate or table of a sewing-machine on which the cloth or material to be operated on is laid.

B is the foot or pressure pad, which may or may not also constitute the feeder.

C is the stationary guide for the edge of the under portion of the binding, having a straight edge, *a*, to guide the edge of the binding in a line parallel with the plane of the feed-motion and at a proper distance from the needle, and having a lip, *b*, which overhangs the edge *a*. This guide is secured to the plate A on that side of the needle toward which the feed-movement takes place by a screw, *c*. The space between the lip *b* and the plate A should be sufficient to admit the thickest binding.

D is the stationary guide for the edge of the fold of the binding, serving, also, as a guide for the edge of the material to be bound. This guide, which extends past the needle, has its face *d* of a depth perpendicular to the plate A, equal to half the width of the widest binding for

which it is to be used, and it is set with the said face *d* parallel with the plane of the feed-movement and at a distance from the face *a* of the guide C equal to half the width of the binding to be used, or to the width of that portion of the binding that is to be turned under. To adapt it to binding of different widths the said guide D is made adjustable toward or from the needle in a direction at right angles to the plane of the feed-movement by providing a slot, *e*, for the screw *f*, which secures it to the plate A.

E is the elastic plate, of a width equal at least to half of that of the widest binding for which it is to be used, attached at one end by a screw, *g*, to the top of the guide D, at that end thereof which is on the side of the needle toward which the feed-movement takes place, and having its other end extended a short distance under the pressure pad or foot B, which is beveled to admit the said spring underneath it without interfering with the pressure of the said pad or foot upon the material, and in such a manner that the end of the said plate E also presses upon the material. The said plate E lies close to the face *d* of the guide D, and occupies a position over the guide C. Its elasticity is such as to require the pressure of the foot piece or pad B to hold it down.

The operation is as follows: The cloth or material to be bound, represented in blue color in Figs. 1 and 2, passes over the top of the guide C and under the foot or pressure pad B. The binding, represented in the same figures in red color, passes singly under the cloth and under the lip *b*, and with one edge in contact with the edge *a* of the guide *b*, and the part not under the cloth works in contact with the face *d* of the guide D, with its edge in contact with the elastic plate E. By passing in contact with the oblique face of the plate E the part of the binding not under the cloth is gradually turned over on the top thereof as it approaches the foot or pressure pad, and before arriving under the pad is pressed flat by the plate E, the fold guided by the face *d* being always parallel with the edge of the binding guided by the edge *a*.

The advantages possessed by this combination of guides over all others known to me consists particularly in its being adjustable to various widths of binding, and in its adapting itself without adjustment to all thicknesses of material to be bound, as well as of the binding

itself, admitting the binding with equal facility of the thinnest fabric or the stoutest quilted one that can be admitted under the foot or pressure pad B.

I do not claim the employment of a surface arranged obliquely to the face of the cloth, table, or plate to turn the edges of fabrics in sewing machines; neither do I claim the attaching of the whole binding-guide to the foot or pressure pad, so that it may be caused to rise and fall therewith, as that has been already patented by O. G. Boynton, June 1, 1854; but

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

The combination of the fixed lipped guide C for the under edge of the binding, the fixed but adjustable guide D for the edge of the fold of the binding; and the elastic plate E, operated upon by the pressure pad or foot, the whole applied and operating substantially as and for the purpose herein set forth.

WATSON SNYDER.

Witnesses:

R. B. PIERCE,

CHARLES A. CONCKLIN.