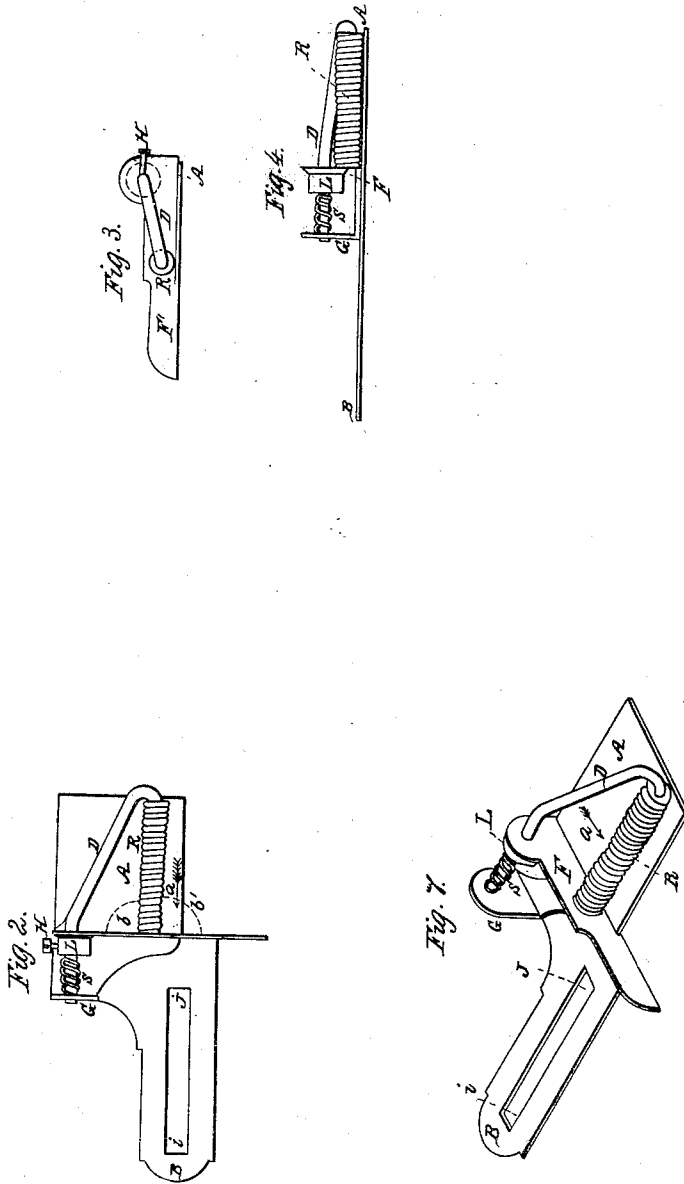


G. W. HARRINGTON.
 Guide for Sewing Machines.

No. 49,588.

Patented Aug. 22, 1865.



Witnesses:
 Davis Goddard
 J. C. Budge

Inventor:
 George W. Harrington

UNITED STATES PATENT OFFICE.

GEORGE W. HARRINGTON, OF ORANGE, MASSACHUSETTS, ASSIGNOR TO
HIMSELF AND THOS. H. WHITE, OF SAME PLACE.

IMPROVEMENT IN GUIDES FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 49,588, dated August 22, 1865.

To all whom it may concern:

Be it known that I, G. W. HARRINGTON, of Orange, in the county of Franklin and State of Massachusetts, have invented a new and Improved Self-Acting Guide for Sewing-Machines; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in making a self-acting guide for a sewing-machine by a peculiar combination of a spirally-grooved roller (or a roller made by winding wire into a close spiral) with a guide-plate and with a spiral spring for holding the roller firmly upon the bed-plate of the guide; also, in so inclining the axis of the roller to the line of motion of the article passing through the guide that it shall have a tendency to draw the article always toward the vertical part of the guide-plate.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation. The following-described drawings attached to and forming a part of this specification illustrate it as follows:

Figure 1 is a perspective view of the instrument. Fig. 2 is a plan of the same. Fig. 3 is an end elevation of the same. Fig. 4 is a side elevation of the same.

A in all the figures shows the bed or principal plate of the guide.

F in all the figures is a thin plate fixed vertically upon the bed-plate A. The function of the plate F is to check the article which is being operated upon from passing too far in the direction indicated by the arrow *a* in Fig. 2.

D in all the figures is a wire bent, as shown in Figs. 1 and 2, in such a manner that while one end serves as an axle for the roller R, the other end forms a pivot about which the roller

R swings. Around this same end is placed a spiral spring, S, which is so attached to the wire D (by means of the dog L and screw H, shown in Fig. 2) and to the bed-plate A that it acts to hold the roller R steadily upon the bed-plate or upon the intervening article. The extent of the pressure of the roller R on the cloth or material to be operated upon may be varied by means of the dog L and screw H.

The axis of the roller R is inclined slightly from a line perpendicular to the face of the plate F, so that the angle *b* shall be larger than the angle *b'*, as shown in Fig. 2. The object aimed at in this arrangement is that the roller may crowd the article to be operated upon constantly against the guide-plate F.

The roller R is made of a spiral of wire, or has a spiral groove cut in it for the purpose of giving it a proper tendency to crowd the article against the plate F.

G is a standard for holding the extreme end of the wire D.

ij in Figs. 1 and 2 represent a slot cut in the bed-plate A B for convenience in fastening and adjusting it to the machine.

The utility of my improved guide is this: It can be attached to any sewing-machine, and is so far self-acting as to save a great deal of care and skill to the operator. A person may sew well with a machine having this guide who would be unable to succeed at all without it.

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

The combination and arrangement of the spirally-grooved roller R, the wire D, and adjustable spring S with the bed-plate A B, all operating as and for the purpose specified.

GEORGE W. HARRINGTON.

Witnesses:

DAVIS GODDARD,
T. E. BRIDGE.