

I. M. ROSE.

Guide for Folding and Uniting the Edges of two Pieces of Cloth, &c.

No. 52,749.

Patented Feb. 20, 1866.

Fig. 1.

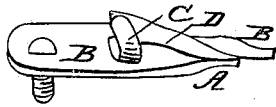


Fig. 2.

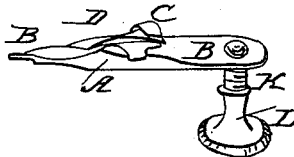
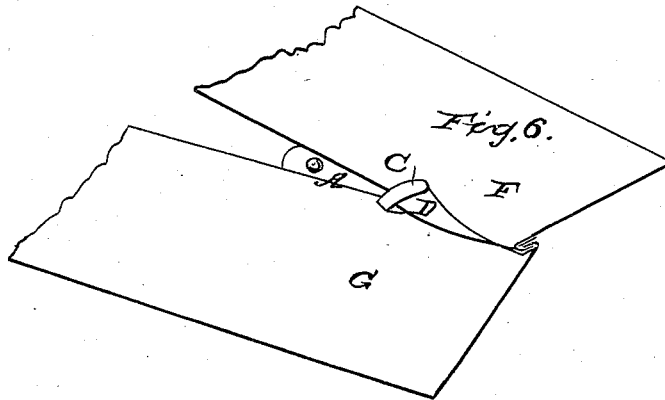


Fig. 3.

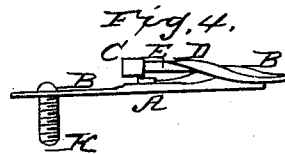


Fig. 4.

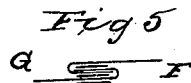


Fig. 5.

Witnesses
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ISRAEL M. ROSE, OF NEW YORK, N. Y.

IMPROVEMENT IN GUIDES FOR FOLDING AND UNITING THE EDGES OF TWO PIECES OF CLOTH, &c.

Specification forming part of Letters Patent No. 52,749, dated February 20, 1866.

To all whom it may concern:

Be it known that I, ISRAEL M. ROSE, of the city, county, and State of New York, have invented a certain new and useful Improved Device for Uniting the Edges of Cloth, Metal, and other Materials; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being hereby had to the accompanying drawings, which said drawings make a part of this specification.

Like letters represent and refer to like or corresponding parts.

Figure 1 is a perspective view of my improved device, showing the screw K by means of which it is fastened to the machine while in use. Fig. 2 shows a top view of the device hereinafter described. Fig. 3 is a perspective view, showing the opposite side to that of Fig. 1. Fig. 4 shows a side view of my improved device. Fig. 5 is a cross-section of the device, showing the cloth or metal F and G as it is joined by means of my improved device. Fig. 6 is a perspective view, showing the device as it would appear while in use on a sewing-machine for the purpose of uniting the edges of cloth, leather, and other similar materials.

The nature of my said invention consists in the employment of a device, constructed substantially as shown in the accompanying drawings, for the purpose of uniting the edges of cloth, metals, and other materials, thereby forming a more durable and lasting connection between the edges of materials thus desired to be connected.

To enable others skilled in the art to which my invention relates to make and use my said invention and improvements in devices for uniting the edges of cloth, metal, and other materials, I will here proceed to describe the construction and operation thereof, which is as follows, to wit:

I construct my said improved device of iron, steel, or any other material deemed best. I generally prefer steel as being best adapted to that purpose. It may be of any size required, and should be constructed with sufficient strength to answer the purpose for which it is intended.

My new and improved device for uniting the edges of cloth, metal, and other materials consists of a bottom plate, A, which is for the purpose of holding the curved plate B, to which all the other parts of the device are attached.

To said bottom plate, A, is attached the said curved plate B by means of the screw H. There is a bent piece of metal, C, attached to said curved plate B, which serves to hold the pieces D and E in their relative positions as regards the other parts of the device.

When it is desired to use my improved device for the purpose of uniting the edges of cloth, leather, and other like material, it is made fast to the sewing-machine to be used by means of the screw H through the bed-plate of the machine, and is fastened on the under side by means of the screw-head K. (Shown in Fig. 3.) The edges of the cloth or other material to be united are then introduced into my improved device, one edge being put in above the plate E and the other one below it. It is then drawn through with the fingers, and will then present substantially the same appearance as is shown at Fig. 6 in the accompanying drawings, and also shown in section at Fig. 5, F and G representing the cloth or other material to be thus united. After passing through the device, as hereinbefore described, it is ready to be fastened together by the sewing-machine, or in metals either riveted or soldered.

It is obvious that it can be used in conjunction with any sewing-machine, as it is entirely separate and is only used when a strong and durable seam is desired. It is easily attached by means of the screw and screw-head, as hereinbefore stated.

I have chiefly designed this new and improved device to be used for the purpose of uniting the edges of cloth, leather, and other like materials, in conjunction with a sewing-machine to stitch the edges together after being formed by my device, as hereinbefore described; but it is obvious that it may be used for the purpose of uniting the edges of sheet metal together by simply making it of sufficient size and strength for the work intended to do.

By the use of my improved device for the purpose of uniting the edges of cloth, &c., together there is a great saving of time and trouble over all other devices now in use for that purpose, as it was formerly required to stitch the edges together before running them through the devices used for the same purpose as my improved device.

It will be seen that I construct my said im-

proved device in five separate and distinct parts, to wit: A, the bed-plate or piece which secures the entire device to that part or plate of any sewing-machine on which rests the cloth or material to be worked. B, D, and E are plates of a twisted or spiral shape or form, combined together and forming a point or space to receive, hold, and direct the cloth or material being worked and united by the seam and sewing, as shown at Figs. 4 and 6. C is a steel spring, which regulates the action of the spiral-shaped plates or pieces B, D, and E in and during the operation of forming the seam by the uniting of two pieces of cloth or other material. Thus the said spiral-shaped parts will conform to the thickness of the cloth or other material being worked, as aforesaid. This spring C is constructed and applied substantially as shown at Figs. 1, 2, 3, and 4. One end of such spring is attached to the said spiral-shaped piece D, while its other end is attached to the said spiral-shaped piece B, while the said spiral-shaped piece E is also attached to said spring C in any convenient manner or by any suitable mechanical means, and thereby the whole device will yield to the

cloth or other material passing through the same and being united as aforesaid.

This device may be applied successfully to any sewing-machine for the purpose aforesaid. It is cheap and durable, and when either part becomes broken or otherwise rendered useless it may be replaced without losing the entire device, as would be the case were the entire device made in or from one piece; or if one part should need repairing it can be taken from the said device and repaired without loss or injury to the other parts.

Having thus described my said invention and improvements, what I claim, and desire to secure by Letters Patent, is—

The employment of the spiral-shaped pieces B and D and E, in combination with the spring-piece C, separately constructed, the whole united with the bed-plate A, in the manner substantially as and for the purposes herein described and set forth.

I. M. ROSE.

Witnesses:

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