

J. W. HOLLINGSWORTH.
Guide for Sewing-Machines.

No. 214,136.

Patented April 8, 1879.

Fig. 1

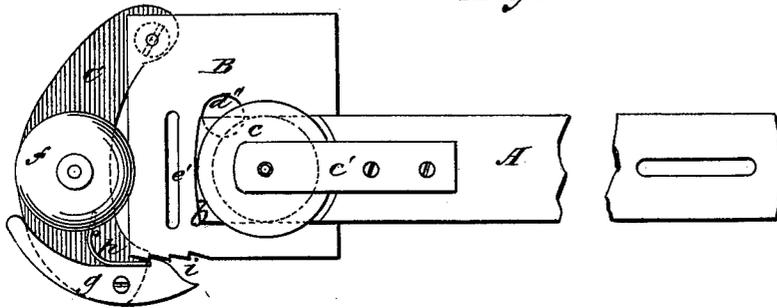
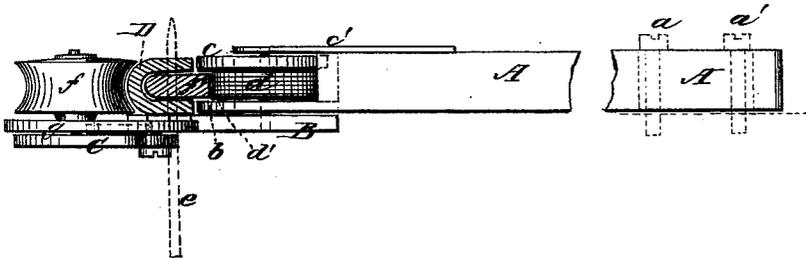


Fig. 2.



WITNESSES:

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JAMES W. HOLLINGSWORTH, OF PAOLI, INDIANA.

IMPROVEMENT IN GUIDES FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. **214,136**, dated April 8, 1879; application filed November 30, 1878.

To all whom it may concern:

Be it known that I, JAMES W. HOLLINGSWORTH, of Paoli, in the county of Orange and State of Indiana, have invented a new and Improved Sewing-Machine Attachment, of which the following is a specification.

The object of this invention is to furnish an attachment for harness-makers' sewing-machines, whereby the said machines can be used for sewing up the seams in round lines, traces, and other parts of the harness round in cross-section.

The invention consists of an improved sewing-machine attachment, formed by the combination of the guide-arm, fixed to the base of the machine and provided with friction-rollers, and the pivoted arm, provided with the concave-faced roller, and its free end adjustably secured to the throat plate, with each other and with the throat-plate of a sewing-machine, as hereinafter fully described.

In the accompanying drawings, Figure 1 is a plan of my improvement, and Fig. 2 is a side view of the same.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents the guide-arm, which is attached to the machine by screws *a a'* in line with the top of the throat-plate B, on which its free end *b* rests adjacent to the needle. In a rabbet at this end is pivoted a friction-roller, *c*, held in by strap *c'*, the periphery of roller *c* being in line with the end *b* of the arm A; and between roller *c* and the arm is a rubber roller, *d*, of less diameter than roller *c*, so that between said roller *c* and the arm is a rabbet or channel *d'*, of which the rubber roller forms the bottom.

The throat-plate B is secured to the machine by a screw passed through a hole, *d''*, and the needle *e* plays through the slot *e'*.

To one corner of the throat-plate is pivoted an arm, C, so as to swing around under the outer edge of this plate; and to this arm is pivoted a roller, *f*, so as to be in line with the guide-arm when the arm C is drawn around under the throat-plate, as shown in Fig. 1.

On the free end of the arm C is pivoted a pawl, *g*, controlled by a spring, *h*, and engaging a ratchet, *i*, on the edge of the throat-

plate. By means of this pawl and ratchet the arm can be fixed nearer to or farther from the front of the plate, for a purpose that will presently be described.

The operation of my improvement is as follows: The unsewed rein or other article, D, with the welt *f'* inserted, is placed on the throat-plate B, under the presser-foot of the machine, with its lips toward the guide-arm, the upper lip in contact with the edge of roller *c*, and the other lip in contact with the end *b* of the guide-arm, while the outer edge of the welt is held in the channel *d'* in contact with the rubber roller *d*. Then arm C is drawn around until the concave face of roller *f* bears against the round back of the rein D, and the pawl *g* is allowed to engage the ratchet, so as to hold the roller in this position closely and firmly.

In this way it will be seen that the article to be sewed is held on every side, and the welt is confined in its place securely. The sewing proceeds, and the rein or other article is guided through the machine by the different parts bearing upon it.

The roller *f*, by its arrangement, as will be seen, can be adjusted so as to allow different-sized articles to be sewed.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. As an improved sewing-machine attachment, the guide-arm A, provided with the rollers *c d* and the end *b*, adapted to be placed adjacent to the needle *e*, in combination with the throat-plate B and the pivoted arm C, having roller *f*, and mechanism whereby the free end of the said pivoted arm may be connected with the throat-plate, substantially as described.

2. As an improvement in sewing-machine attachments, the pivoted arm C, provided with the concave-surfaced roller *f* and the spring-actuated pawl *g*, in combination with the throat-plate B, having ratchet *i*, and with the guide-arm A, provided with the rollers *c d* and the end *b*, substantially as described.

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Witnesses:

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