No. 751,069. PATENTED FEB. 2, 1904.

G. GIOIOSA.

GUIDE FOR SEWING MACHINES.

APPLICATION FILED MAR. 2, 1903.

NO MODEL.

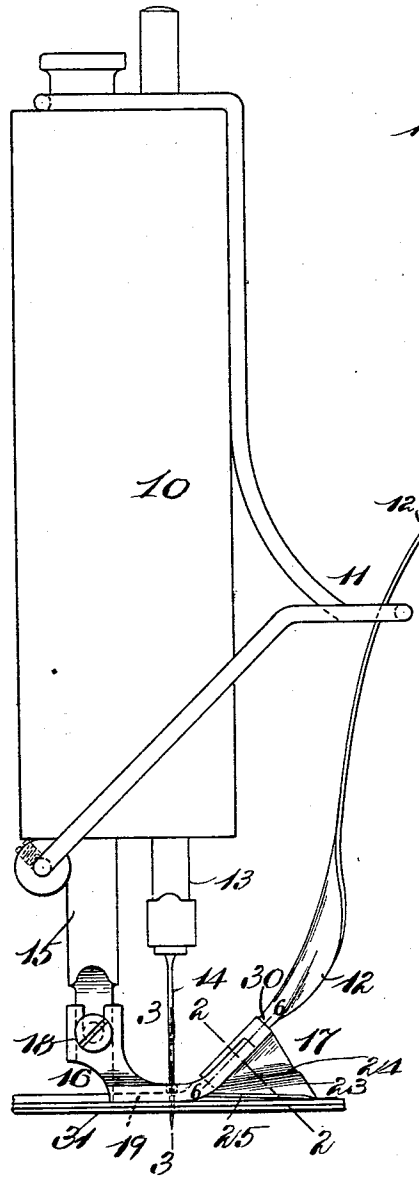


Fig. 1.

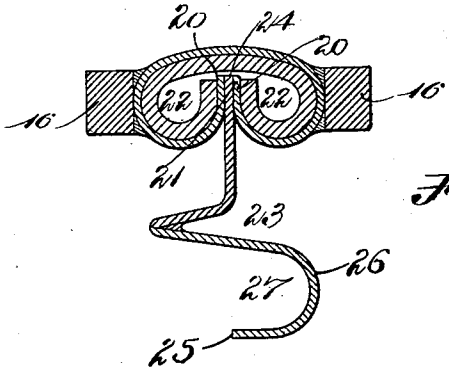


Fig. 2.

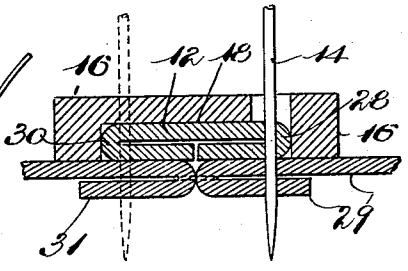


Fig. 3.

Fig. 4.

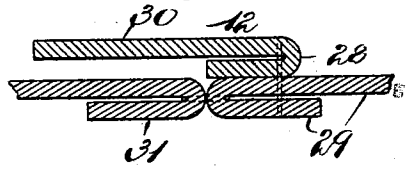


Fig. 5.

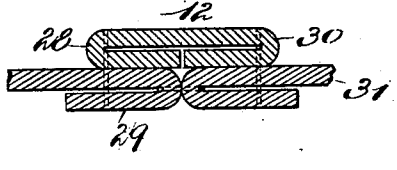


Fig. 6.

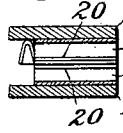
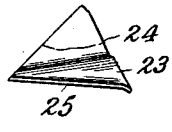


Fig. 7.



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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 751,069. Patented February 2, 1904.

UNITED STATES PATENT OFFICE.

GIUSEPPE GIOIOSA, OF EAST BOSTON, MASSACHUSETTS.

GUIDE FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 751,069, dated February 2, 1904.

Application filed March 2, 1903. Serial No. 145,675. (No model.)

To all whom it may concern:

Be it known that I, GIUSEPPE GIOIOSA, a citizen of the United States, residing at East Boston, in the county of Suffolk and State of Massachusetts, have invented new and useful Improvements in Guides for Sewing-Machines, of which the following is a specification.

This invention relates to a guide and folder for sewing-machines, the object of the invention being to provide a simple and durable guide and folder which will guide and fold a piece of tape so that it may be attached by the thread of an ordinary sewing-machine to garments to form lapped seams upon coats.

The invention consists in the combination and arrangement of parts set forth in the following specification and particularly pointed out in the claim thereof.

Referring to the drawings, Figure 1 is an end elevation of the head of a sewing-machine with my improved guide and folder attached thereto, a piece of tape being illustrated in connection therewith. Fig. 2 is an enlarged transverse section taken on line 2 2 of Fig. 1. Fig. 3 is an enlarged transverse section taken on line 3 3 of Fig. 1, the needle being shown in full lines and a twin needle in dotted lines. Fig. 4 is a transverse section across the seam of a coat with the tape forming the lap-seam partly folded and attached thereto. Fig. 5 is a section similar to Fig. 4, illustrating the tape entirely folded and attached to a portion of a coat. Fig. 6 is a section taken on line 6 6 of Fig. 1. Fig. 7 is a detail side elevation of the auxiliary folding-guide with converging edges set forth in the claim.

Like numerals refer to like parts throughout the several views of the drawings.

In the drawings, 10 is the head of a sewing-machine of any desirable style and construction.

11 is a leading-guide for the tape 12.

13 is the needle-bar, and 14 the needle.

15 is a presser-bar, 16 a presser-foot, and 17 my improved guide and folder attached to said foot. The presser-foot 16 is adjustably attached to the presser-bar 15 by a screw 18 in the usual manner and is provided upon the under side thereof with a guide-slot passage 19, extending longitudinally of said presser-foot. The guide and folder 17 is fast to the presser-foot 16 and extends longitudinally forward and upward from the front end of said presser-foot. Said guide is preferably formed of sheet metal by folding two parallel sides 20 20 of said sheet metal downwardly, then toward each other, and finally bending said sides upwardly adjacent to each other, Fig. 2.

It will be seen that the sides 20 20 form a longitudinal separating-partition 21, which extends lodgitudinally of the guide 17 and between the two folding-passages 22 22. An auxiliary folding-guide 23, also formed of sheet metal, has two converging edges 24 25. The edge 24 is fastened to and between the edges 20 20 of the guide 17. Said auxiliary folding-guide 23 extends downwardly from the guide 17, the lower edge 25 thereof being horizontal and the plate forming said guide being bent in a semicircular form in cross-section at 26 to form a guide-passage 27. The guide-passages 22 22 and 27 converge toward one another and terminate adjacent to the front end of the longitudinally-extending guide-slot passage 19, formed in the under side of the presser-foot 16.

The operation of my improved guide and folder is as follows: The tape 12 is inserted through the tape-leading guide 11 and the end thereof carried through the folding-passages 22 22, Fig. 2, until the end of the tape is brought to the left-hand side of the needle 14, Fig. 1. It will be seen that as said tape is carried through the guide and folder 17 both sides of said tape will be curled around in the folding-passages 22, as shown in Fig. 2. In Fig. 3 the tape 12 is shown folded as in Fig. 2, but flattened and lying in the guide-slot passage 19. The portion of the overcoat to which the lap-seam is to be attached is placed beneath the presser-foot, as shown in Fig. 3, and the machine started. The needle 14 sews the folded side 28 of the tape 12 to the side 29 of the coat, the other side, 30, of the tape being folded as shown in Figs. 2 and 3, but not sewed if a single-needle machine is used in the first feed of the goods through the machine. If a twin-needle machine is used, the side 30 is attached to the side 31 of the coat

simultaneously with the sewing of the side 28 of the tape to the side 29 of the coat. (See dotted needle, Fig. 3.) Fig. 4 illustrates the tape folded upon the side 28 and attached to the side 29 of the overcoat by sewing, as hereinbefore described.

To attach the side 30 of the tape to the side 31 of the coat in a single-needle machine, the goods are reversed and fed past the needle a second time. In this second operation the folding of the side 30 of the tape is accomplished by the auxiliary folding-guide 23, the tape being folded by said guide and fed along the passage 27, Fig. 2, until it enters the guide-slot passage 19 and is sewed by the needle 14, as illustrated in Fig. 5, to the side 31 of the coat.

The advantage of my improved guide and folder is that the tape is accurately folded and attached to the coat at great speed and by comparatively inexperienced workmen.

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

A tape folder and guide for sewing-machines, comprising a presser-foot constructed to be attached to the presser-bar of a sewing-machine and a tape-guide fast to the front end of said presser-foot extending longitudinally forward and upward therefrom, said tape-guide formed of sheet metal, two parallel sides thereof folded downwardly, toward each other and upwardly adjacent to each other, forming a longitudinal separating-partition with a folding-passage at each side thereof, together with an auxiliary folding-guide, formed of sheet metal, with two converging edges, one of said edges fastened to and between the adjacent sides forming said separating-partition, the other of said edges bent to form a horizontal semicircular passage located beneath said tape-guide.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

GIUSEPPE GIOIOSA.

Witnesses:
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