A. G. MAYNARD.

BRAID APPLYING ATTACHMENT.

APPLICATION FILED MAR. 8, 1918.

1,286,703. Patented Dec. 3, 1918.

Fig. 1

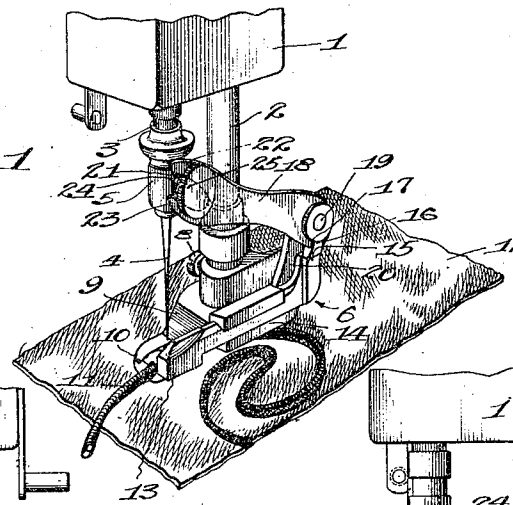


Fig. 2

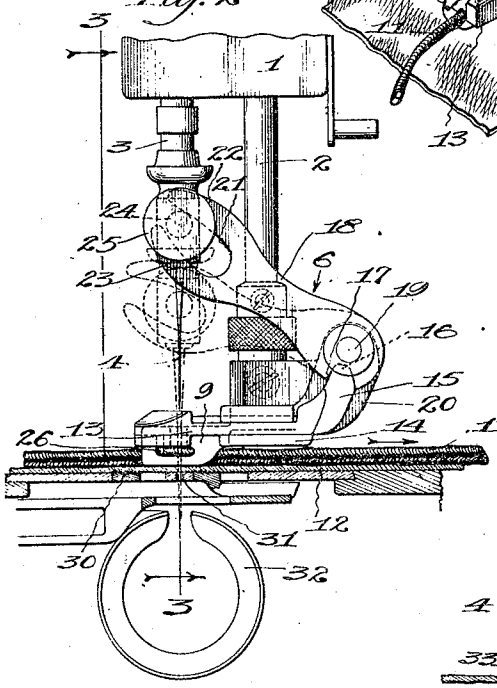


Fig. 3

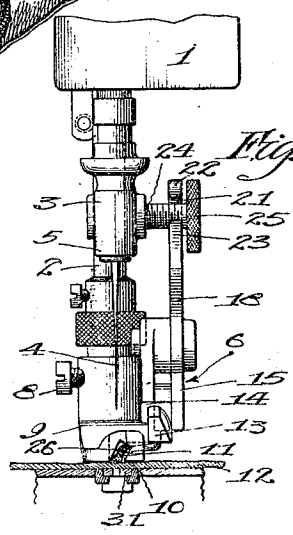


Fig. 6

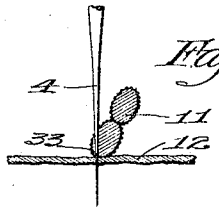


Fig. 4

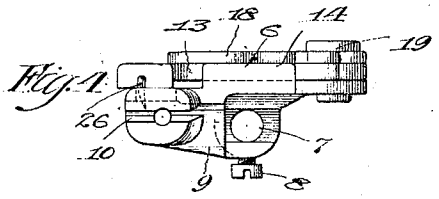
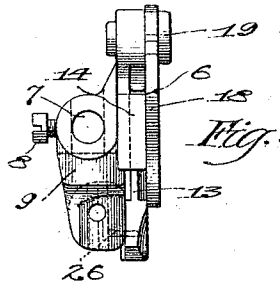


Fig. 5



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BRAID-APPLYING ATTACHMENT.

1,286,703. Specification of Letters Patent. Patented Dec. 3, 1918.

Application filed March 8, 1918. Serial No. 221,104.

To all whom it may concern:

Be it known that I, AGNES G. MAYNARD, a citizen of the United States, and a resident of Chicago, Illinois, have invented a certain new, useful, and Improved Braid-Applying Attachment, of which the following is a specification.

My invention relates generally to attachments for sewing machines, and relates more particularly to attachments for applying or attaching braid to goods. My invention is concerned principally with the application of braid to goods in edgewise manner.

In the manufacture of garments, particularly women's garments, a large amount of the braid is used for trimming, and ornamental purposes. Much of the braid used for the trimming and ornamentation of the finest character is a relatively narrow braid which is not sewed flatly on the goods of the garment, but is secured edgewise thereon. While such braid is extensively used, heretofore the application of the braid has required a skilled seamstress who secures it by hand usually stitching through the lower edge of the braid. Such practice not only requires a skilled seamstress, but is also slow, laborious and expensive, and has resulted in preventing the general use of braid of this character for the finishing and ornamentation of the garments to which it is unquestionably beautifully adapted.

It is an object of my invention to provide an attachment that can be applied to any standard sewing machine whereby narrow braid of this kind can be applied edgewise in a simple convenient manner, by even an unskilled operator. Other objects of my invention are to provide an attachment of the character stated which shall be of simple and durable construction; which can be readily applied to and removed from a standard sewing machine; which shall not interfere with or injure the operating parts of the sewing machine; and which can be maintained in working order with little or no attention.

My invention consists generally in the means whereby the aforesaid objects, together with others which will appear hereinafter, are attainable, and my invention will be more readily understood by reference to the accompanying drawings which illustrates that form of my invention which I consider the best at the present time:

In said drawings Figure 1, is a perspective view of a portion of the sewing machine equipped with an attachment embodying my invention. Fig. 2, is a side elevation of the mechanism shown in Fig. 1; and in addition thereto the cloth being shown in section, together with the cloth feed and shuttle. Fig. 3 is a view substantially on the line 3—3 of Fig. 2. Fig. 4, is a bottom view of the attachment, detached from the sewing machine. Fig. 5, is a top view of the attachment, detached from the sewing machine, and Fig. 6, is a detailed view, illustrating the manner in which the sewing machine needle pierces the braid.

In the said drawings, 1 represents a portion of the head of a sewing machine of the standard form having mounted therein a presser bar 2, and a vertical reciprocating needle bar, 3. The needle 4, is held on the needle bar by means of the usual fastening, 5. The operation of the needle bar and the needle are in no wise changed by the application of my attachment. I do however, remove the presser foot (not shown) from the presser bar, 2, and apply my attachment 6, a hole 7, being formed therein to receive the end of the presser bar 2. My attachment is firmly secured to the presser bar by means of a suitable screw, 8.

My attachment comprises a stationary body portion 9, having an upwardly inclined groove, 10, in its bottom for the reception and accurate positioning of the braid 11, which it is desired to apply to the cloth or other material, 12. My attachment also comprises a horizontal reciprocating member 13, which is suitably held and guided in the block portion 14. In this instance the member 13, is provided with an upstanding portion 15, having a tongue 16 which enters in a slot 17, provided therefor in the hub portion of an operating lever 18. The operating lever 18 is pivoted at 19, to an upstanding stationary bracket portion 20, of the attachment and its outer end is provided with an elongated slot 21, formed by the forked portions 22 and 23, which straddle the shank portion 24 of the nut 25, that screws into the needle bar. It is obvious that the vertical reciprocating movement of the lever, 18, causes a back and forth movement of the member 13. This back and forth movement of the member 13 in turn feeds the braid in the direction of the arrow (indicated in Fig. 2) by means of a prick point, 26, best shown in Figs. 3 and 4. The prick point, 26, is formed at an an-

gle so that it will catch in the braid when moving in the direction in which the braid should be fed, and will simply brush past the braid when returning. I might here add that if the braid is to be applied neatly to the cloth and if wrinkles and buckling of the cloth are to be prevented, the braid must be fed forward accurately and in properly timed relation with respect to the feed of the cloth 12, to which the braid is applied. It will be understood that the cloth or other material is fed accurately forward by means of the usual reciprocating feed member 30, of the machine, which receives its motion from a source which is timed accurately with relation to the reciprocating needle bar, 3, as the needle 4, at the time of its lowermost position passes through an opening 31, in the feed bar at the time when it coacts with the shuttle, 32, of the machine. Therefore by reciprocating my feed bar, 13, from the needle bar through suitably proportioned levers, it is obvious that the braid will be fed forward at a speed identical with the speed of the movement of the cloth to which the braid is being applied. In this manner all danger of the buckling, wrinkling, etc., is entirely obviated. The braid, it will be seen, is held in edgewise position on the cloth, the needle 4, piercing the braid adjacent the lower edge, as indicated by the stitching 33, on the braid, as best shown in Fig. 6. In this manner, even relatively narrow braid can be quickly and accurately applied edgewise to the goods, even by an inexpert seamstress, and with any standard sewing machine.

The attachment can be readily applied to and removed from the sewing machine, and will enable the far greater use of the admittedly pleasing edge braid application.

I do not wish to be limited precisely to the mechanism herein described and shown, except only as may be necessary by limitations in the hereunto appended claims.

I claim:

1. In a sewing machine, the combination with the presser foot bar, reciprocating needle bar, and material feed of a sewing machine of an edge braid applying attachment, comprising a body portion, secured to the presser foot bar, having a braid receiving groove formed in the bottom thereof and positioned to guide the braid in a vertical plane, means for feeding the braid comprising a reciprocating element mounted on the body of the attachment actuated synchronously with respect to the sewing machine feed by virtue of means embracing a moving part of the sewing machine.

2. Mechanism for applying braid edgewise to material, comprising means for feeding and guiding braid in edgewise relation upon the material and under the reciprocating needle of the sewing machine, said means comprising a body portion formed with a braid-receiving slot, a reciprocating feed member, and means for actuating said reciprocating feed member from the needle bar of a sewing machine, said braid-receiving slot being so positioned with respect to the needle that the needle pierces the braid adjacent the material abutting edge of the braid.

In testimony whereof, I have hereunto set my hand this 18th day of February, 1918.

AGNES G. MAYNARD.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."