

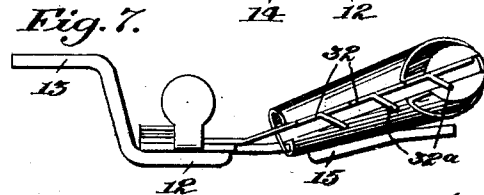
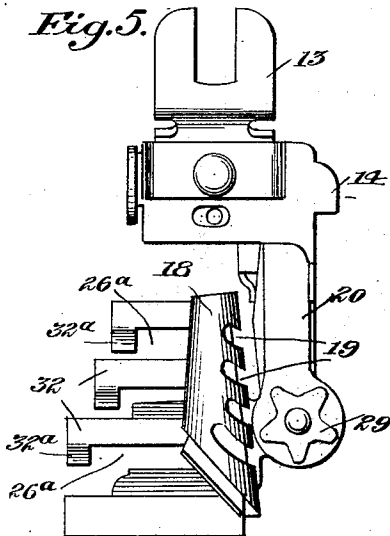
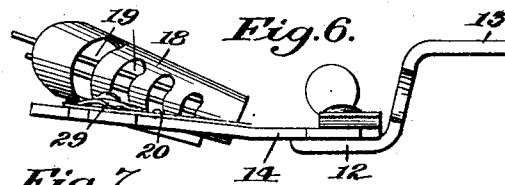
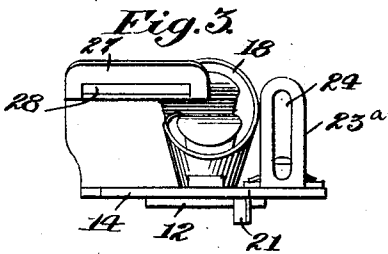
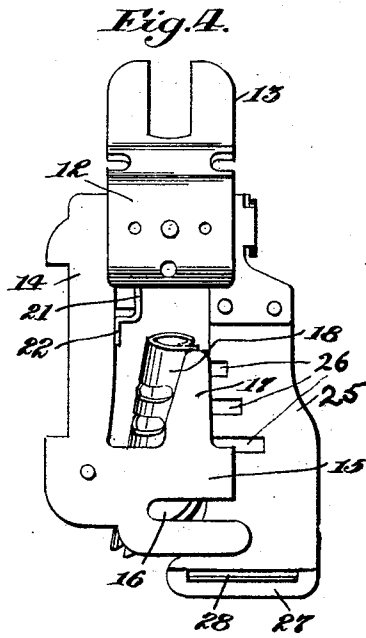
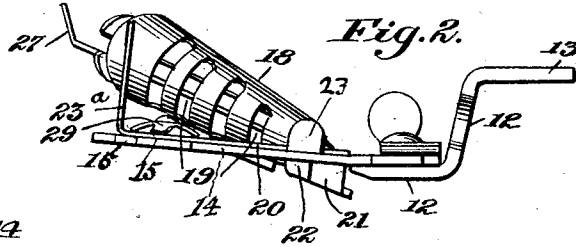
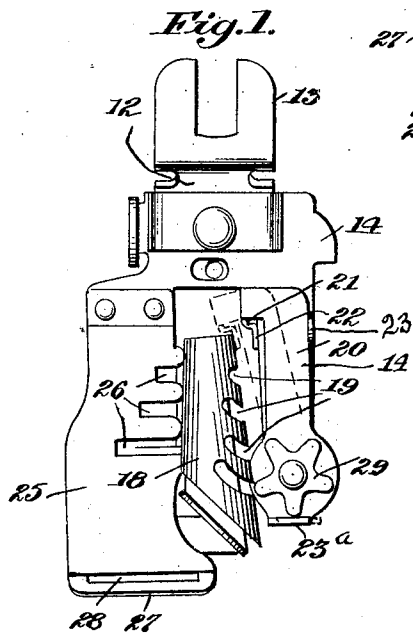
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W. C. GREIST ET AL

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BINDING AND PIPING ATTACHMENT FOR SEWING MACHINES

Filed April 23, 1929



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# UNITED STATES PATENT OFFICE

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## BINDING AND PIPING ATTACHMENT FOR SEWING MACHINES

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This invention has for its object to provide an improved sewing machine binder of such construction that one or more piping strips may be fed to the needle of a sewing machine with the binding, for enabling binding and piping to be simultaneously performed, all as will be hereinafter more fully explained.

In the accompanying drawings Fig. 1 is a plan view of the improved binding and piping attachment. Fig. 2 is a side view of the same looking from the right of Fig. 1, and Fig. 3 is an end view of the same looking from the bottom of Fig. 1. Fig. 4 is a bottom view of the attachment. Fig. 5 is a plan view of a modified form of the invention, and Figs. 6 and 7 are opposite side views of the same.

Referring to the drawings, 12 denotes a presser-foot having a forked shank 13 by which it may be attached to the presser bar of a sewing machine. Attached to the presser-foot 12 is a plate 14 having a laterally extending part 15 provided with an open slot 16 (see Fig. 4) and with a rearwardly extending finger 17 to which the binder scroll 18 is suitably attached, preferably by soldering. This binder scroll is provided with a series of slots 19 of different heights or lengths for the purpose of accommodating bindings of different widths, or for the purpose of receiving both a comparatively narrow binding tape or strip, and a relatively wide piping strip.

Pivotaly mounted on the plate 14 is an adjustable lever guide 20 having at its forward end a depending guiding lip 21 integral with which is a stop finger 22 which may serve as an edge guide for the folded edge of the binding and which serves, by contact with the scroll 18, to limit the inward movement of the said guide when it is adjusted to the position shown in dotted lines in Fig. 1 for the purpose to be hereinafter explained. Said finger also serves to limit the outward movement of said guide when adjusted to the position shown in full lines in Fig. 1, by contact with the left hand edge of the plate 14. The depending lip 21 is forward of the front end of the binder scroll, and when in the position shown in dotted lines in Fig. 1 is approximately in line with the right hand

guiding side of said scroll. The guide 20 is also preferably provided with a small upwardly projecting lug 23 for convenience in adjusting said guide from the position shown in full lines to the position shown in dotted lines in Fig. 1, or vice versa. This guide 20 has near its forward end an integral upwardly projecting flange 23<sup>a</sup> provided with a vertical slot 24. The guide 20 is frictionally held in any position to which it may be adjusted by a spider spring washer 29.

Attached to the plate 14, by rivets or otherwise, is a piping guide plate 25 having at its edge a series of open slots 26 of different widths and having at its rear end an inclined upwardly projecting flange 27 at the base of which is a slot 28. The slotted portion of the plate 25 is centrally in line with the opening between the two folds or lobes of the binder scroll 18, and preferably extends slightly into said opening when the attachment is in use.

In the form of the invention shown in Figs. 5, 6 and 7 the piping guide consists of a series of separated fingers 32 of different lengths attached to the under side of the upper fold or lobe of the binder scroll 18, said fingers being spaced apart to afford piping guide slots 26<sup>a</sup> of different lengths, said slots being open to the left for the convenient insertion, edgewise, of the piping strips. The guiding of the piping strips is assisted by down-turned lugs 32<sup>a</sup> at the outer ends of the fingers 32.

In the operation of the improved binding and piping attachment in the form of the invention shown in Figs. 1 to 4, a binding of any desired width may be led through the slot 24 in the upwardly projecting flange 23<sup>a</sup> at the rear of the lever guide 20, and thence through one of the slots 19 in the binder scroll 18. It will be noted that said flange 23<sup>a</sup>, with its vertical strip guiding slot 24, is closely adjacent to said binder scroll. If a narrow binding be led through one of the scroll slots 19 in the binding scroll 18 and a wider piping strip be led through a larger slot in said scroll the binding and piping may be simultaneously attached to the edge of a fabric the right hand edge of which is ex-

tended into the binder scroll beneath the piping guide plate 25, and in such case the binding and piping will appear on both sides of the fabric edge. If, however, a plurality of folded strips of different widths be led through the slot 28 at the end of the plate 25, and thence through the slots 26 in said plate, or be otherwise entered into said slots, and be extended edgewise into the binder scroll 18, and a binding strip be also simultaneously entered into said binding scroll 18, binding and multiple piping will be simultaneously performed by the use of this improved attachment, the pipings appearing on the upper side only of the work.

The adjustable guiding lever, when in the position shown in dotted lines in Fig. 1, serves to assist in guiding the binding and piping strips, as they are fed forward to the needle, and is more particularly useful for this purpose when narrow binding and piping strips are being fed through the attachment.

From the foregoing it will be understood that by the use of this improved attachment binding and single or multiple piping may be simultaneously performed on a sewing machine.

The invention is not to be understood as being limited, in all of its details, to the particular constructions herein shown and described, as such details may be widely varied, within the limits of mechanical skill, without departing from the scope of the invention.

As hereinbefore stated, binding and single piping, showing on both sides of the fabric edge, may be simultaneously performed by leading a relatively narrow binding strip through one of the smaller scroll slots 19 and at the same time passing a wider piping strip through one of the larger scroll slots, the piping strip being folded into the binding strip or binding. Or, if desired, a relatively narrow binding may be led through the smallest scroll slot 19 and two or three wider piping strips, of gradually increasing widths, may be guided through the gradually increasing larger slots 19, and thus either, double or triple piping, showing on both sides of the work, may be performed by the use of the slotted binder scroll alone, without using the piping guides to form piping showing on only one side of the work, the piping strips being all folded within the binding strip. In thus using the slotted binder scroll on a sewing machine, either in doing plain binding or binding and piping, particularly the latter, the slotted strip guide 23<sup>a</sup> will be essentially useful in assisting in guiding the binding and piping strips to the binder scroll. The method of performing binding and piping above described is to be understood as being a part of our invention.

Having thus described our invention, we

claim and desire to secure by Letters Patent:—

1. A sewing machine binding and piping attachment comprising a binder scroll, combined with a piping guide-plate having a plurality of piping guide slots.

2. A sewing machine binding and piping attachment comprising a binder scroll having a series of slots of different sizes, for the accommodation of binding strips of different widths, combined with a piping guide plate having a plurality of piping guide slots of different lengths.

3. A sewing machine binding and piping attachment comprising a presser-foot having a shank for attachment to a presser bar, combined with a plate secured to said presser-foot, a binder scroll supported by said plate, and a piping guide plate having a plurality of strip guiding slots.

4. A sewing machine binding and piping attachment comprising a presser-foot having a shank for attachment to a presser bar, combined with a plate secured to said presser-foot, a binder scroll supported by said plate, a piping guide plate having one or more strip guiding slots, and a pivotally mounted guide on said first-named plate having a depending finger located forward of said binder scroll.

5. A sewing machine binding and piping attachment comprising a presser-foot having a shank by which it may be secured to the presser bar of a sewing machine, combined with a binder scroll having a series of strip-guiding slots of different lengths, to accommodate binding strips of different widths, and a piping guide-plate having a plurality of strip guiding slots of different lengths.

6. A sewing machine binding and piping attachment comprising a presser-foot having a shank by which it may be secured to the presser bar of a sewing machine, combined with a binder scroll having a series of strip-guiding slots of different lengths, to accommodate binding strips of different widths, a piping guide-plate having a plurality of strip-guiding slots of different lengths, and a pivotally mounted guide on said first-named plate having a depending finger located forward of said binder scroll.

7. A sewing machine binding and piping attachment comprising a binder scroll, combined with a piping guide-plate having a plurality of piping guide slots, and a pivotally mounted guide having a depending finger located forward of said binder scroll.

8. A sewing machine binding attachment comprising a presser foot having a shank for attaching the same to the presser bar of a sewing machine, combined with a plate attached to said presser foot, a binder scroll mounted on said plate, and a guide pivotally mounted on said plate and the free end of which is adapted to be located forward of said binder scroll.

9. A sewing machine binding attachment comprising a presser foot having a shank for attaching the same to the presser bar of a sewing machine, combined with a plate attached to said presser foot, a binder scroll mounted on said plate, and a guide pivotally mounted on said plate, and having a depending finger adapted to be located forward of said binder scroll.

10 In testimony whereof we affix our signatures.

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PEACE R. FISCHER.

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