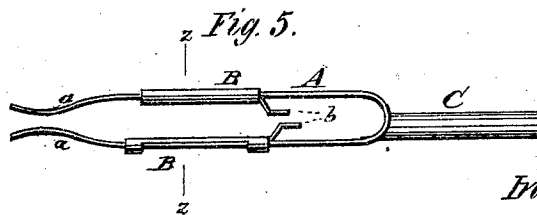
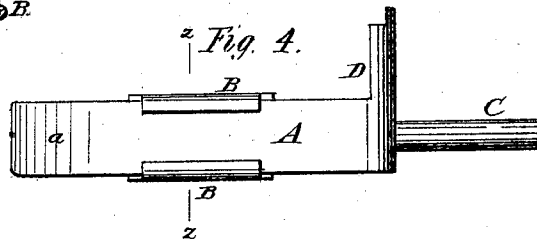
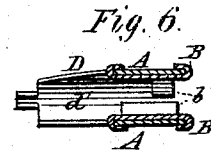
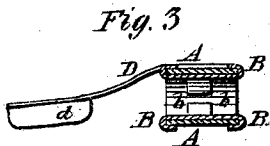
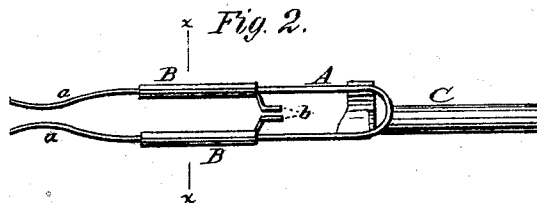
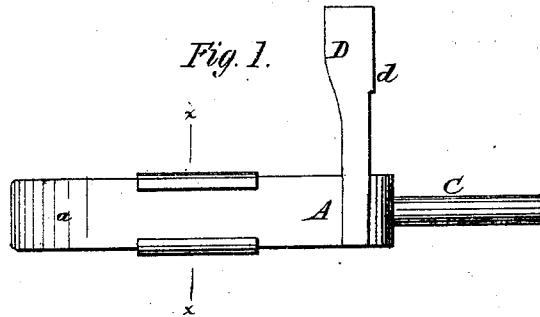


HENRY M. HALL.

Improvement in Binder for Sewing Machine.

No. 120,513.

Patented Oct. 31, 1871.



Witnesses.

W. A. Mearns
C. H. Poole

Inventor.

Henry M. Hall, by
Prindle and Dyer, his
Attys.

UNITED STATES PATENT OFFICE.

HENRY M. HALL, OF NEW YORK, N. Y.

IMPROVEMENT IN BINDERS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 120,513, dated October 31, 1871.

To all whom it may concern:

Be it known that I, HENRY M. HALL, of New York, in the county of New York, and in the State of New York, have invented certain new and useful Improvements in Binding Attachment for Sewing-Machines; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a plan view of the upper side of my device. Fig. 2 is a side elevation of the same. Fig. 3 is a cross-section of said device on the lines *x x* of Figs. 1 and 2. Fig. 4 is a plan view of the upper side of a modification of the binder. Fig. 5 is a side elevation of the same, and Fig. 6 is a cross-section on the lines *z z* of Figs. 4 and 5.

Letters of like name and kind refer to like parts in each of the figures.

My invention is an improvement in a class of sewing-machine attachments employed for guiding and holding in position binding-braid while the same is being attached to or around the edges of fabrics; and it consists in the device, as a whole, when constructed substantially as and for the purpose hereinafter specified.

In the annexed drawing, A represents the frame of the device, constructed of or from a narrow strip of sheet-metal, bent together in a short curve at its longitudinal center, and from thence extending outward in parallel lines to a point near its ends, *a*, from whence the jaws curve inward toward each other and then slightly outward, as seen in Figs. 2 and 5. Upon each jaw or arm of the frame thus formed is fitted a slide, B, which consists of a piece of sheet-metal, having a sufficient width so that when placed against the inner face of the arm its edges may be turned upward and inward so as to embrace the edges of the same, and connect said parts firmly together in a lateral direction, while at the same time permitting said slide to be moved longitudinally upon said arm. The inner end *b* of each slide is extended forward and inward, and then horizontally forward, so as to embrace the edges of the binding-tape. Secured to and extending rearward from the doubled end of the frame A is a rod, C, having any desired transverse form, by means of which the device is connected with the clamp or other device used for attaching the same to or upon the supporting plate of the

machine. As thus constructed the braid is doubled together longitudinally and placed within the doubled end of the frame A, with the edges of said tape resting within and loosely confined in place and separated by the guides *b*, after which the fabric to be bound is passed between the arms or jaws of said frame and between said guides, with its edges inclosed by means of the doubled braid, in which relative positions the parts are ready for operation in the ordinary manner. In order that the braid may be held in position after leaving the binder, and until the instant that it receives the needle, I employ a guide, D, which extends laterally outward in a line with the inner edge of the doubled portion of the frame A, and embraces the doubled edge of said braid. It will be seen that many modifications can be made in the shape of this guide, one of which is shown in Figs. 1 to 3, and is formed of a strip of spring sheet-metal, which is attached to the upper arm of the frame and from thence extends outward and downward so as to bear slightly upon the upper surfaces of the cloth and braid, while upon its rear side is provided a lip, *d*, that extends vertically downward in rear of and against the doubled edge of the braid. Another form of the guide is shown in Figs. 4 and 6, and consists in a lateral prolongation of the doubled end of the frame so as to form a horizontal semi-circular groove, *d'*, within which is contained the doubled edge of the braid.

The device thus constructed is simple and efficient, and can be readily adapted to use upon any thickness of cloth or any width of braid, which braid can be made to overlap equally upon opposite sides of the cloth, or, if desired, may be so applied as to have greater width upon one side than upon the other.

Having thus fully set forth the nature and merits of my invention, what I claim is—

As a new article of manufacture, the hereinbefore described binder, when constructed substantially as and for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand this 18th day of September, 1871.

HENRY M. HALL.

Witnesses:

E. H. BONTON,
GEORGE A. GREENLY.

(134)