

HENRY M. HALL.

Improvement in Corder for Sewing-Machine.

No. 126,050.

Patented April 23, 1872.

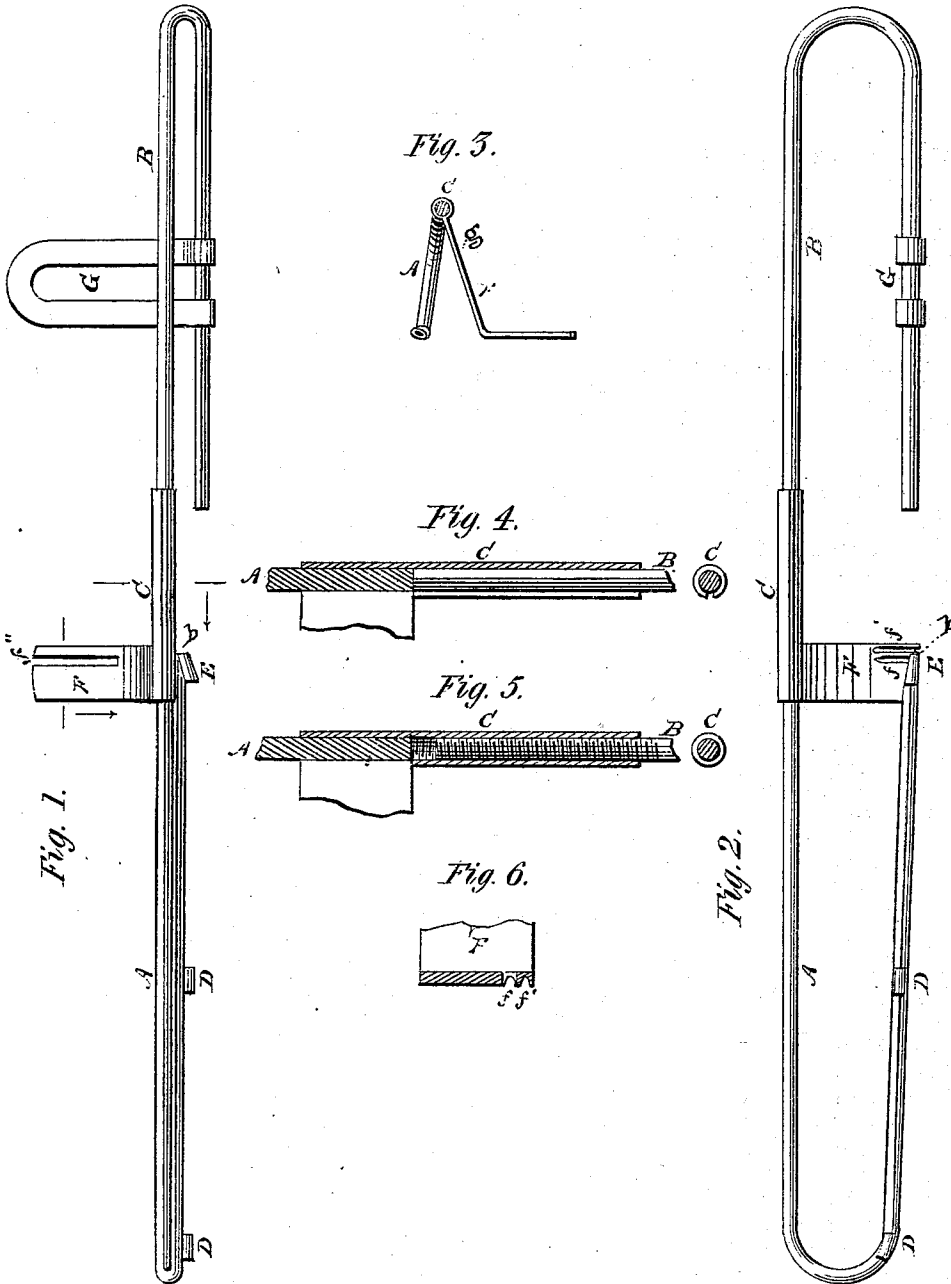


Fig. 1.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 2.

Witnesses.

Attest
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UNITED STATES PATENT OFFICE.

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

IMPROVEMENT IN CORDERS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 126,050, dated April 23, 1872.

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 Corder Attachments 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 on the line xx of Fig. 1. Figs. 4 and 5 are central longitudinal sections of the joint, showing different means for connecting the arms together; and Fig. 6 is a cross-section on the line zz of Figs. 1 and 2.

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

My invention is an improvement in the construction of corder attachments for sewing-machines, by means of which greater efficiency of operation is secured and the device rendered capable of being packed in a smaller space than has heretofore been practicable; and it consists principally in the jointed frame, constructed and combined substantially as and for the purpose hereinafter specified; also, in combination with the jointed frame above named, the other principal operative parts, all constructed and arranged substantially as and for the purpose hereinafter shown and described.

In the annexed drawing, A and B represent two sections of the frame constructed of wire in the form shown, and connected together by means of a sleeve, C, permanently attached to the upper end of one section, A, and secured to or upon the corresponding end of the opposite section B by means of inward pressure, said sleeve being split, or by means of an internal thread provided within said sleeve and a corresponding external thread cut upon the end of said section. Attached to or near the bent end of the section A and upon the side of its lower arm a , and also in a corresponding position at the longitudinal center of said arm, are the usual guide-loops D, while at the inner, flattened, and pointed end b of the same is a delivery-tube, E, having an elliptical form in transverse section, and placed at an angle of

about thirty degrees with relation to the line of said arm. The corder-foot F is secured to the sleeve C, and extends downward and slightly outward from the same, and is provided upon its rear and under side with two half-round grooves, f and f' , placed parallel, close together, and near one edge of said foot, in which position the outer groove f' is in a line with the outer end of the delivery-tube. A slot, f'' , extending from the outer end of the foot F, inward along the groove f , to or near the upright arm g of the same, which arm slopes slightly away from said foot, completes the device, which, being attached to or upon the bed-plate of the machine by means of a clamp, G, for which Letters Patent No. 119,350 were issued to me September 26, 1871, is ready for use in the usual manner.

The advantages possessed by this construction of the attachment are as follows: By means of the flexible joint of the frame the section provided with the clamp may, if necessary, be thrown out of line with the balance of the device, in order to enable said clamp to be brought into position with relation to the screw-hole, the position of the latter with relation to the needle-bar being different in the various machines. The joint in the frame enables the sections to be separated and packed in a much less space than would otherwise be possible. The slot f'' in the foot, in place of the usual round hole, enables the same to be adjusted to position with relation to any presser-foot, and permits the latter to bear against the upright portion of said corder-foot, so as to prevent the same from being drawn from place. By the use of the peculiarly-shaped delivery-tube a large or a small cord may be used with equal facility, while the goods are but slightly separated by said tube.

While the form of the tube gives a slight tension to the cord, whether larger or smaller, this tension, by reason of the arrangement of the tube upon the end of a rod, has a certain degree of elasticity, which prevents the cord from binding too much, and, by reason of the sloping position of the tube, it delivers the cord more directly and accurately to the grooves in the corder-foot.

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

1. In a corder attachment for sewing-machines, a sectional or jointed frame constructed and combined substantially as and for the purpose specified.

2. In combination with the jointed frame of a corder attachment, as described, the slotted foot F provided with an upright arm, *g*, and the delivery-tube E upon the end *b* of the arm *a*, all constructed and arranged substantially as set forth.

3. Also, the hereinbefore-described corder attachment, consisting of the sections A and

B connected together by means of the sleeve C, the guide D, the delivery-tube E, and the foot F provided with the grooves *f* and *f'* and with the slot *f''*, substantially as and for the purpose shown and described.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 23d day of October, 1871.

HENRY M. HALL. [L. S.]

Witnesses:

CRAVEN PEYTON,
WM. F. MACRAE.