

J. L. COLES.
BINDER FOR SEWING MACHINES.

No. 112,223.

Patented Feb. 28, 1871.

Fig. 1.

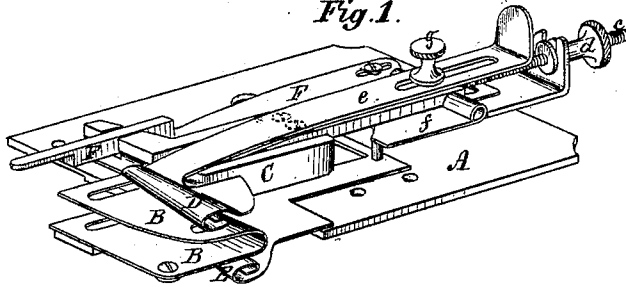


Fig. 2.

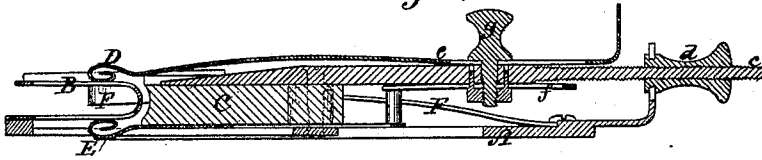


Fig. 3.

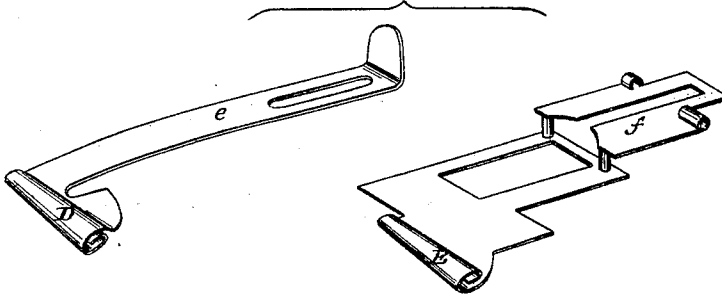
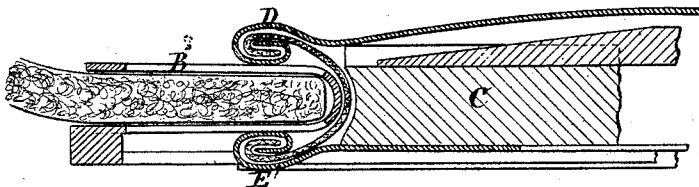


Fig. 4.



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JACOB L. COLES, OF NEWARK, NEW JERSEY, ASSIGNOR TO HIMSELF AND JAMES W. COREY, OF SAME PLACE.

IMPROVEMENT IN BINDERS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 112,223, dated February 28, 1871.

To all whom it may concern:

Be it known that I, JACOB L. COLES, of the city of Newark, in the county of Essex and State of New Jersey, have invented a new and useful Combined Feller and Binding-Guide for Sewing-Machines; and I do hereby declare that the following specification, taken in connection with the drawing furnished and forming a part of the same, is a true, clear, and exact description thereof.

My invention is particularly valuable for the purpose of binding hat-rims or any other work in which it is desirable that the binding-braid or its equivalent shall be turned under at both edges.

In the accompanying drawing, Figure 1 represents in perspective my improved combined feller and binder; Fig. 2, the same in longitudinal vertical section. Fig. 3 represents the fellers detached from the plate. Fig. 4 represents, on an enlarged scale, a vertical section of the device with hat-rim and braid in position in the manner of its use.

A represents the bed-plate, to be attached to the machine in the usual manner. B is a U-shaped guide of the usual form. C is a guide-block resting upon the plate, and adjustable with relation to the rounded edge of the guide B by means of threaded rod *c*, operated by nut *d*. D is a combined feller and edge guide or gage, and may be used for felling, or simply as a gage. E is also a combined feller and edge guide or gage, but reversed in such a manner that, while the feller D guides and turns the upper edge of the braid, the latter guides and turns the lower edge. Each of these fellers D and E is ad-

justable with relation to the round edge of the U-shaped guide B, by means of slotted arms on each, marked *e* and *f* respectively, which are secured in any desired position by means of a thumb-screw, *g*.

F is a spring-presser, attached at one end to the bed-plate A. The other end projects over the presser-foot of the sewing-machine, adjacent to the needle, and between it and the binding-guide. This spring-presser has a peculiar value in this connection, inasmuch as the double-felled braid or equivalent fabric is liable to unfold or spread on its way to the needle, or while being stitched. The spring-presser, by holding the entire fabric, hat-rim, and braid closely down upon the bed-plate, prevents any possible displacement.

If the braid is to be applied in the usual manner, without felled edges, it is only necessary to set the fellers D and E according to the width of the braid.

Having thus described my improvement, I claim as new and desire to secure by Letters Patent—

1. The fellers D and E, adapted to operate upon both edges of the binding fabric, in combination with the U-shaped guide B, over which the binding fabric is folded, as and for the purpose specified.

2. In combination with the devices enumerated above, the auxiliary spring-presser F, substantially as described.

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