

JOHN L. DEMAREST.

Improvement in Bobbin-Winders.

No. 127,155.

Patented May 28, 1872.

Fig. 1.

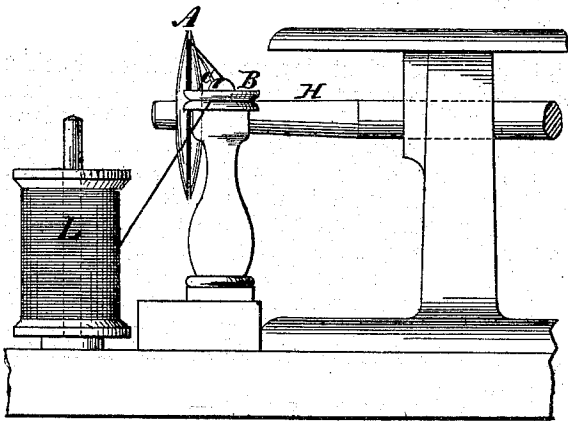


Fig. 2.

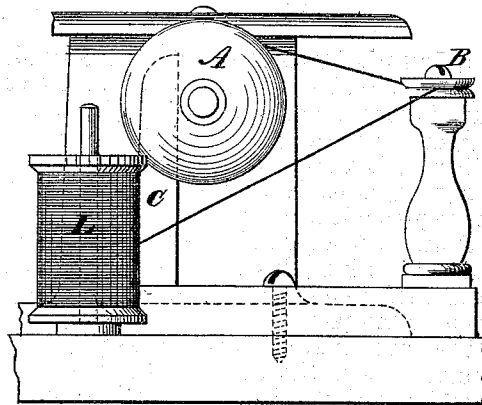
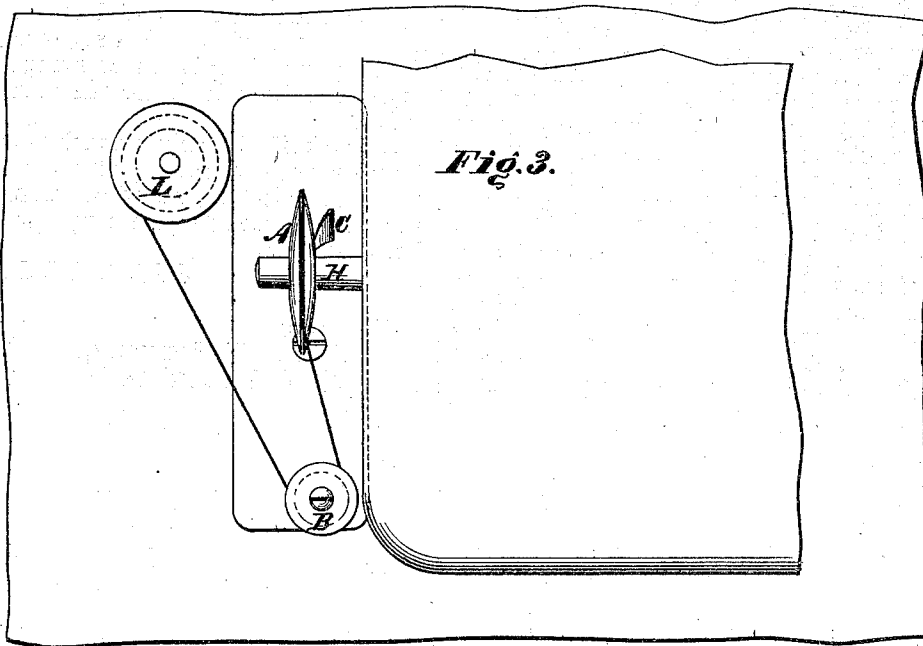


Fig. 3.



Witnesses.

Henry W. B. Kley.
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UNITED STATES PATENT OFFICE.

JOHN L. DEMAREST, OF ELMIRA, NEW YORK, ASSIGNOR TO HIMSELF AND
FREDERIC W. SMITH, OF SAME PLACE.

IMPROVEMENT IN BOBBIN-WINDERS.

Specification forming part of Letters Patent No. 127,155, dated May 28, 1872.

I, JOHN L. DEMAREST, of the city of Elmira, county of Chemung, and State of New York, have invented certain Improvements in Sewing-Machine "Bobbin"-Winders, of which the following is a specification:

My invention is applicable to that class of sewing-machines which employ a flat bobbin.

Figure 1 is a partial side view of a sewing-machine with my invention attached. Fig. 2 is an end view of the same. Fig. 3 is a plan view of the same.

The bobbin A to be wound is placed, as is customary, on the spindle H of the sewing-machine, and the thread from the spool L, instead of being held by the fingers as the bobbin revolves, is passed around the "tension" B, and thence to the bobbin A. Now, on operating the sewing-machine the thread will be wound up on the bobbin A (by the rotation of the shaft H) compactly and uniformly by the action of the tension B. This will continue until the bobbin A is filled, when the thread will "override" and slip over the edge of the bobbin, down upon the knife C, and be instantly cut off. To cause the thread to slip off upon the knife C with certainty when the bobbin is full, the tension B is placed a short distance to that side of the bobbin against which rests the knife C. The knife C is curved toward the bobbin A to insure its catching the thread,

and by its elasticity accommodates itself to any variation in the position of the bobbin A on the spindle H. The knife C might be placed above, below, or on either side of the bobbin, and can be hinged or otherwise arranged to allow of moving it aside when the bobbin is being changed should this be thought desirable. The "tension" B might be placed upon the top of the spool L, and the thread passed from the spool to the bobbin, at an angle, by means of a carrying loop or pulley placed at one side of the bobbin A, instead of the tension B.

I claim as my invention—

1. The adjustable "tension" B for tightening the thread as it is wound upon the bobbin A, when such "tension" is so placed that the thread passes from it or a carrying loop at an angle to the bobbin A, for the purpose specified.

2. The knife C, combined with the bobbin A, for the purpose of cutting off the thread when the bobbin is full, the whole arranged substantially as and for the purposes hereinbefore described.

JNO. L. DEMAREST.

Witnesses:

HENRY W. BULKLEY,
W. H. GOODCHILD.