H. H. RHODES & C. C. REDMOND.

Bobbin-Winder for Sewing-Machines.

No. 162,193. Patented April 20, 1875.

FIG. 1.

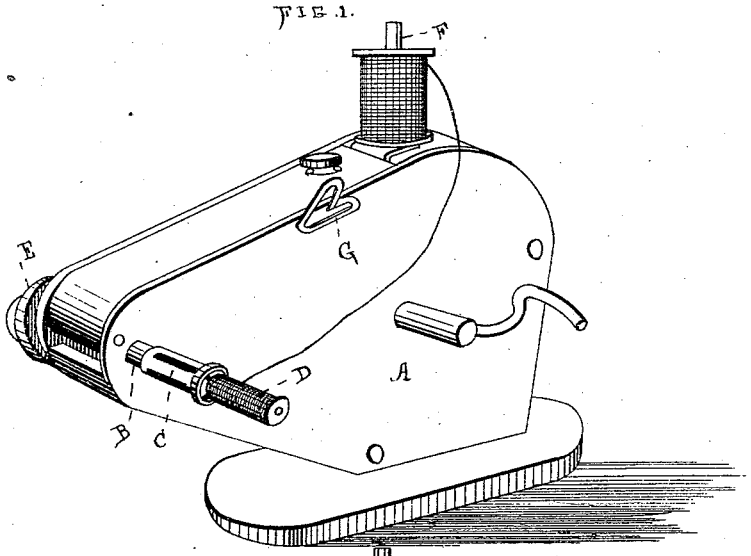


FIG. 2.

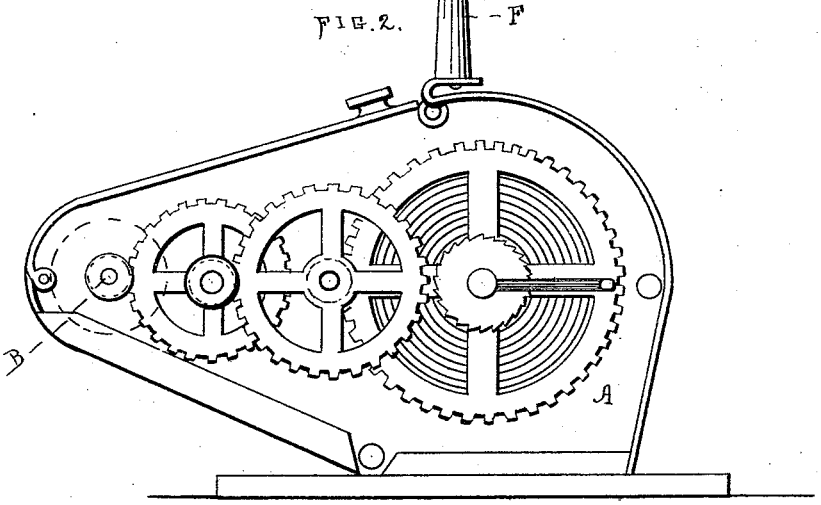
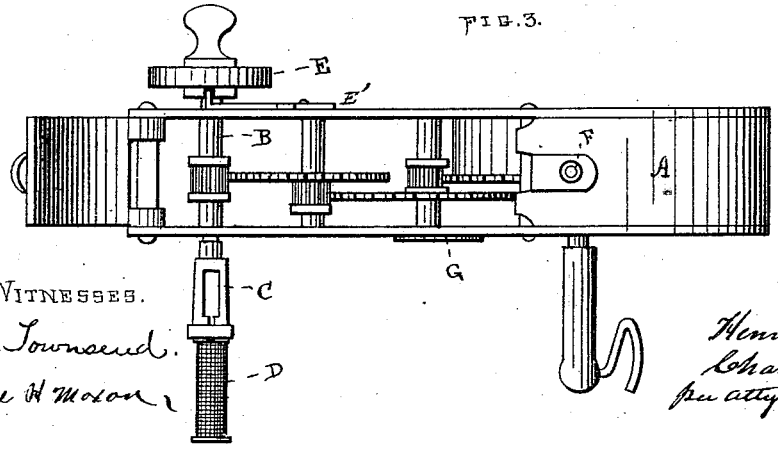


FIG. 3.



WITNESSES.

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UNITED STATES PATENT OFFICE.

HENRY H. RHODES AND CHARLES C. REDMOND, OF SAN JOSÉ, CALIFORNIA, ASSIGNORS OF ONE-HALF THEIR RIGHT TO H. S. LAMPKIN AND E. M. GIBSON, OF SAME PLACE.

IMPROVEMENT IN BOBBIN-WINDERS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. **162,193**, dated April 20, 1875; application filed December 15, 1874.

To all whom it may concern:

Be it known that we, HENRY H. RHODES and CHARLES C. REDMOND, of San José, California, have invented a new and useful Improvement in Bobbin-Winders, of which the following is a clear, full, and exact description, reference being had to the accompanying drawings, as making a part of this specification, in which—

Figure 1 represents a perspective view of our device. Fig. 2 is a side view with the outer casing removed. Fig. 3 is a top view.

Our invention relates to that class of bobbin-winders especially adapted for use where sewing-machines are used; and it consists in the combination of devices hereinafter described and claimed.

To enable others to make and use our invention, we will proceed to describe the exact manner in which we have carried it out.

In the drawings, A is case, of any convenient or desired form, in which is arranged a train of ordinary clock mechanism, with a spring for revolving the shaft B passing through the case A. On one end of the said shaft B is provided the clutch C for holding the bobbin D, and on the opposite end of the shaft we arrange an emery-stone, E, for grinding needles. E′ is a stop, made in any convenient form, for arresting the revolutions of the shaft B. We have pivoted the stop to the side of the casing, and arranged it so that its end, bent at right angles to the arm, may drop into a stop made in a washer inside of the emery-stone. It is evident, however, that a stop may be arranged in a variety of ways. On the upper part of the frame A we place the spool-holder F, on which rests the spool from which the bobbin is to be filled. Near the spool-holder, and secured to the frame A, is a thread-cutter, G. H is the crank for winding up the spring which operates the train of clock-work within the case A.

The operation of our winder is as follows: The bobbin to be filled is caught in the clutch C, and the spool being in position, a few turns of the crank H is made. The mechanism is then ready for action. The end of the thread being attached to the bobbin, the stop is released, and the bobbin is caused to revolve smoothly and rapidly while the thread is fed to it from the spool.

When one bobbin is full it is readily replaced by another, and the operation continues.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

A bobbin-winder constructed as described, and consisting essentially of the bobbin-clamp C and spool-holder F, in combination with the train of clock mechanism, substantially as and for the purpose set forth.

HENRY H. RHODES.
CHARLES C. REDMOND.

Witnesses:
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