

(No Model.)

J. H. PALMER.

BOBBIN WINDER FOR SEWING MACHINES.

No. 312,501.

Patented Feb. 17, 1885.

Fig. 1.

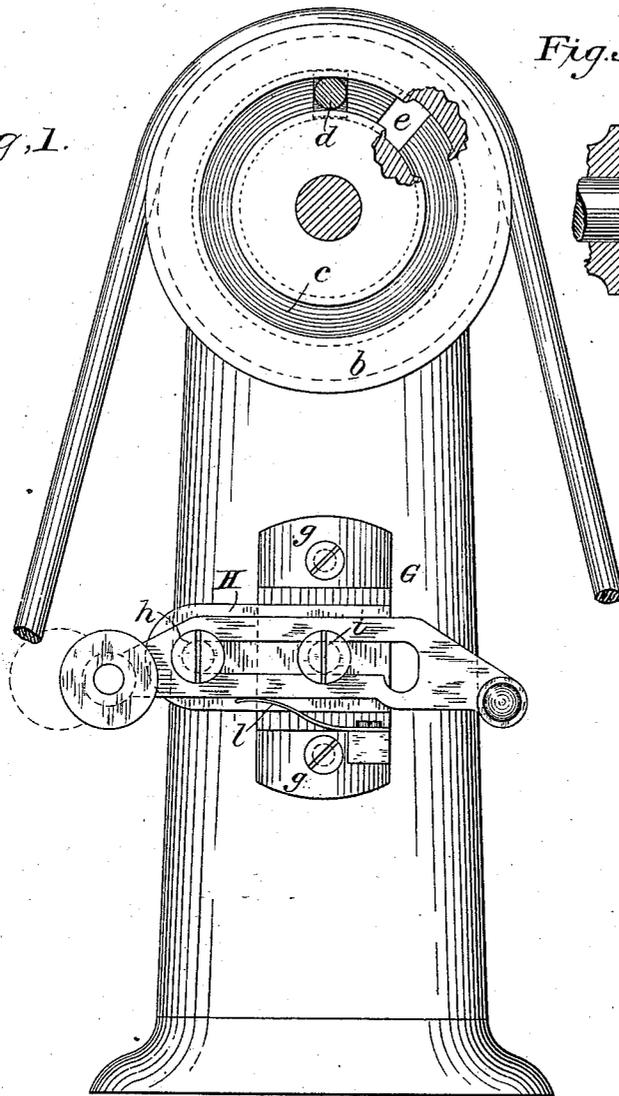


Fig. 3.

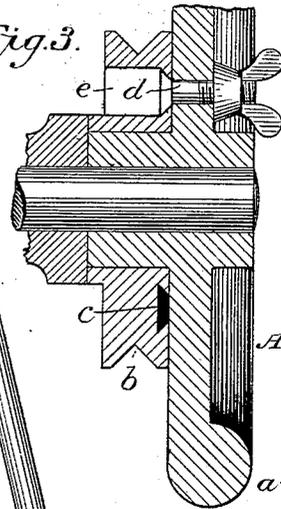
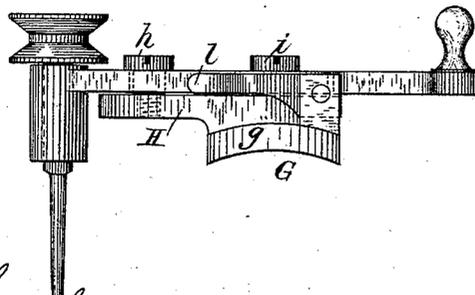


Fig. 2.



WITNESSES

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# UNITED STATES PATENT OFFICE.

JOHN H. PALMER, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO THE AMERICAN BUTTONHOLE, OVERSEAMING AND SEWING MACHINE COMPANY, OF SAME PLACE.

## BOBBIN-WINDER FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 312,501, dated February 17, 1885.

Application filed March 8, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN H. PALMER, of Philadelphia, in the State of Pennsylvania, have invented certain new and useful Improvements in Bobbin-Winders for Sewing-Machines, of which the following is a specification.

In the accompanying drawings, Figure 1 is an end view of the sewing-machine head or frame, showing the driving-pulley partly in section and the adjustable bobbin-winder mounted on the frame. Fig. 2 is a top view of the bobbin-winder detached, and Fig. 3 is a section showing the means for connecting and disconnecting the driving-pulley and driving-shaft of the machine.

The enlarged or balance-wheel part *a* of the driving-pulley *A* is keyed on the driving-shaft of the machine, while the grooved loose pulley *b*, which is driven by the band of the machine, rotates loosely on a hub formed with the part *a* between the balance-wheel and the frame of the machine. An annular dovetailed recess, *c*, is formed in the face of the grooved pulley *b*, next the balance-wheel *a*. The correspondingly-shaped head of a bolt, *d*, runs loosely in this annular dovetailed recess. The bolt is inserted through an aperture, *e*, in the pulley *b*, and passing through the wheel *a*, is provided on its outer end with a thumb-nut. When the thumb-nut is loosened, the pulley *b* will rotate without driving the wheel *a* and the main shaft of the machine, because the head of the bolt will run loosely in the dovetailed recess in the grooved pulley. When the thumb-nut is screwed up, however, the two wheels are firmly clamped together. It is always desirable to throw the machine out of action when the pulley is being rotated merely for the purpose of winding the bobbins.

The devices thus far described for connecting and disconnecting the driving-pulley from the driving-shaft are not claimed herein, as they form the subject-matter of Letters Pat-

ent granted to me July 1, 1884, and numbered 301,456.

On the frame of the machine, at any convenient distance below the driving-pulley, a bracket, *G*, is secured. This bracket is formed with two ears or plates, *g g*, which are bolted to the frame of the machine and a horizontal laterally-projecting plate, *H*. This plate carries two set-screws, *h i*, on which the horizontally-slotted bobbin-winder frame slides. The slotted bobbin-winder frame carries on one end a grooved pulley, adapted to engage with the driving band or cord of the machine to actuate the bobbin-winding spindle. The opposite end of the frame is preferably provided with a suitable handle for moving it back and forth. At the end of the slot in the frame nearest the handle there is a depression into which the screw *i* fits when the bobbin-frame has been thrust sufficiently forward, the frame being thrown up against the screw by a spring, *l*, on the bracket. In this position the pulley will be in engagement with the band of the machine and bobbins may be wound.

I claim as my invention—

1. The combination, substantially as set forth, of the frame of the machine, the bobbin-winder supporting-bracket, the slotted bobbin-winder frame, which may be adjusted back and forth on the bracket, and the supporting or guide screws or pins *h i* on the bracket on which the slotted frame slides.

2. The combination, substantially as set forth, of the frame of the machine, the bobbin-winder bracket, the screws *h i*, the slotted bobbin-winder frame formed with an enlarged opening or socket at one end of the slot, and the spring.

In testimony whereof I have hereunto subscribed my name.

JOHN H. PALMER.

Witnesses:

W. E. STEEN,  
M. F. GULICK.