G. H. DIMOND.
Bobbin-Holder.

No. 207,400. Patented Aug. 27, 1878.

Fig:1.

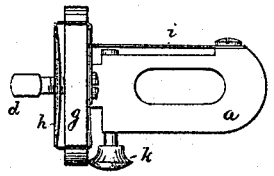


Fig:2.

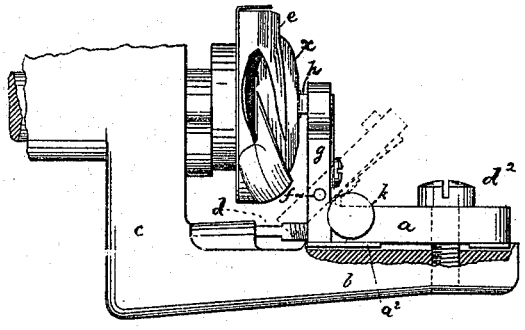


Fig:3.

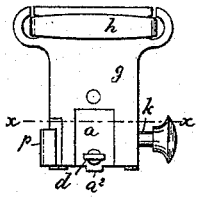


Fig:4.

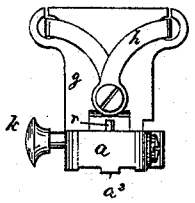
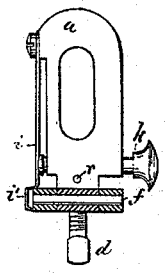


Fig:5.



Witnesses.
L. F. Connor.
N. E. Whitney.

Inventor.
George H. Dimond
by Crosby & Gregory Attys

UNITED STATES PATENT OFFICE.

GEORGE H. DIMOND, OF BRIDGEPORT, CONN., ASSIGNOR TO WHEELER & WILSON MANUFACTURING COMPANY, OF SAME PLACE.

IMPROVEMENT IN BOBBIN-HOLDERS.

Specification forming part of Letters Patent No. **207,400**, dated August 27, 1878; application filed April 29, 1878.

To all whom it may concern:

Be it known that I, GEO. H. DIMOND, of Bridgeport, county of Fairfield, State of Connecticut, have invented an Improvement in Bobbin-Holders, of which the following is a specification:

This invention relates to bobbin-holders or ring-slides adapted to confine in position the bobbin carrying the under thread in the Wheeler & Wilson machine.

The invention consists in an improvement in mechanism for locking and disengaging the pivoted bracket of the ring-slide.

Figure 1 represents, in top view, a bobbin-holder provided with my invention; Fig. 2, a side elevation, showing the bracket in upright position in full lines and turned back in dotted lines; Fig. 3, a front elevation; Fig. 4, a rear elevation, and Fig. 5 a section on lines *x x*, Fig. 3.

The ordinary Wheeler & Wilson machine has a device called a "ring-slide," its purpose being to hold the bobbin within the hook, and such ring-slide is made adjustable toward and from the face of the hook. With such ring-slide it becomes necessary to loosen the screw which confines the base of the ring-slide to the base of the machine each time the bobbin is to be inserted or removed, and when the bobbin is inserted and the slide is being secured in place by the screw the bobbin is liable to drop out of place. The rigid upright portion of this ring-slide has been made of different shapes to adapt it to the particular forms of machine to which it was to be applied—as, for instance, it has been made as a ring, and has also been made as a flat piece of metal, provided with a spring.

This my improved bobbin-holder is applicable to all the different forms of Wheeler & Wilson machines.

The base *a* of the bobbin-holder is provided with a rib or projection, a^2, to enter a groove in the base *b* of the frame *c*, with a stop-screw, *d*, to govern its position with reference to the hook *e*, and with a screw, d^2, which works in a slot in the base *a*, to fix it in place, all as usual. This base has pivoted at one end, at *f*, a bracket, *g*, provided, if desired, with a spring, *h*, to bear lightly against the bobbin *x* or bobbin-cover. At the junction of the base and bracket is placed a locking device, composed, as shown in the drawings, of a spring, *i*, terminating in a hook, *i'*, to engage a portion of the bracket and retain it in upright position, as shown in full lines, the bracket then holding the bobbin properly within the recess at the face of the hook. Upon this base is placed a disengaging device, *k*, made in this instance as a bolt, which, when pressed inward, releases the spring of the locking device from the bracket and permits it to be turned backward, as in dotted lines, for the insertion or removal of the bobbin.

The base of the bobbin-holder is made horizontally adjustable with reference to the face of the hook, in order to accommodate the bracket to bobbins of different thicknesses for different classes of work. It is obvious that this spring may have an opening to receive within it a pin or projection on the bracket, or vice versa.

I do not broadly claim holding a bobbin in position by means of a pivoted bracket; nor do I broadly claim such a bracket when it is engaged and held at its upper end by a spring, which does not form part of the removable bracket and base.

I claim—

The combination, in a bobbin-holder, of an adjustable or sliding base, *a*, the bracket *g* pivoted thereto, a spring-hook to engage the lower end of the bracket and to lock it to the base, and a bolt, *k*, for disengaging the two, all to operate substantially as shown and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEORGE H. DIMOND.

Witnesses:

A. STEWARD,

H. E. FRENCH.