

(No Model.)

W. P. UHLINGER.
SPOOLING MACHINE.

No. 306,366.

Patented Oct. 7, 1884.

Fig. 1.

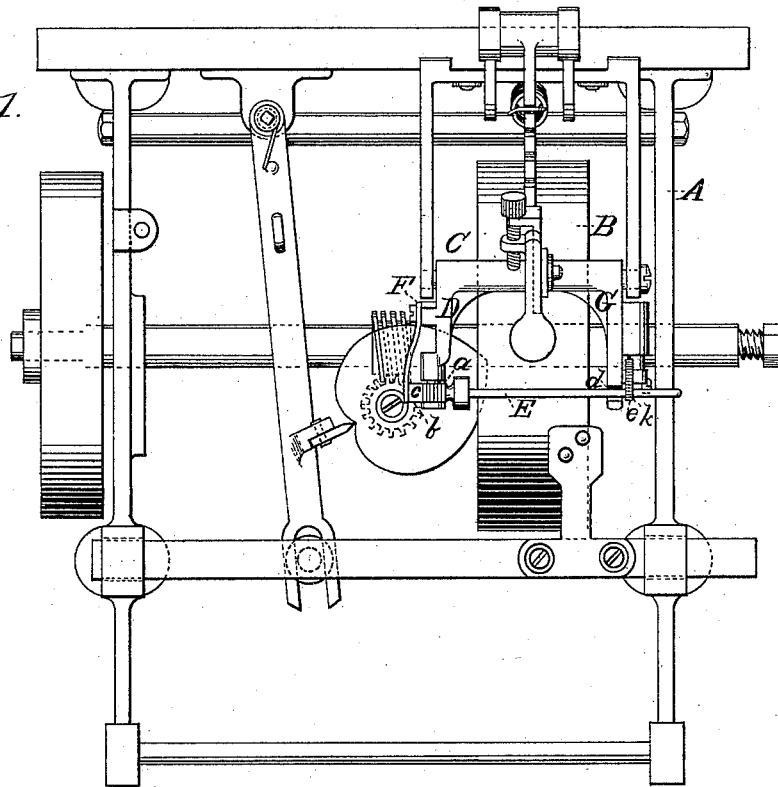


Fig. 2.

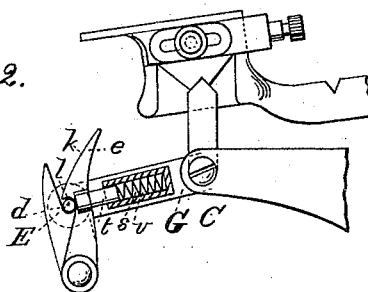
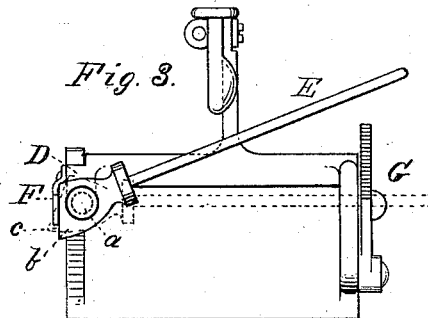


Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

WILLIAM P. UHLINGER, OF PHILADELPHIA, PENNSYLVANIA.

SPOOLING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 306,366, dated October 7, 1884.

Application filed May 12, 1883. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM P. UHLINGER, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Spooling-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a plan view of a machine having my improvements applied thereto, and Figs. 2 and 3 are detail views of certain parts of my improvements.

This invention has relation to spooling-machines to be used for winding yarn upon quills or spools for the shuttles of tape or narrow-ware looms; and it consists in the construction and novel arrangement of devices, as will be hereinafter more fully set forth, and particularly pointed out in the claims appended.

In the annexed drawings, the letter A designates a portion of the main frame, having bearings for the spooling-roller B.

C indicates the pivoted quill-carrying frame, which overhangs the spooling-roller. It is provided with an arm, D, having a pivotal bearing, *a*, on which is seated the heel *b* of the spindle E. The outer portion of the heel of the spindle is formed with an oblique bearing-face, *c*, which is engaged by a flat spring, F, which is secured to the arm D. The plane of the bearing-face *c* is oblique to the direction of the spindle. The opposite arm, G, of the frame C is provided with a notch-seat, *d*, to receive the free end of the spindle when the latter is pressed down to carry the quill against the spooling-roller.

To the arm G is pivoted a lever-cap, *e*, having an oblique guide-bearing, *k*, above its con-

cave shoulder *l*. This lever-cap is held closed by means of a spring, *s*, and piston-bearing *t* engaging the same and working in a socket, *v*, of the arm.

The spindle serves to carry the quill on which the thread or yarn is being wound by the action of the spooling-roller. When the quill is full, the lever-cap is pressed back, releasing the end of the spindle, which, being actuated by the spring F engaging its oblique heel-face *c*, is at once automatically thrown outward from the notch-seat *d*, so that the full quill can be removed and an empty one substituted. The spindle is then pressed back to engage the seat *d*, where it is held by the lever-cap *e* until the operation of winding the thread on the quill is completed, when the spindle is released, throwing out the quill, as before.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination, with the quill-carrying frame having the arm D, of the pivotal bearing *a* at the outer end of the said arm, the spindle E, seated on the said bearing at its heel portion, which is oblique on its outer face, as at *c*, the flat spring F, secured to the arm D, and adapted to engage the said oblique bearing of the spindle, and means for locking the free end of the spindle, substantially as specified.

2. The combination, with a pivoted spindle, E, of the quill-carrying frame provided with the arm G, having the notch-seat, the lever-cap *e*, having the guide-bearing *k* and the socket *v*, the spring *s*, and piston-bearing *t*, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM P. UHLINGER.

Witnesses:

EDWD. S. SWAIN,
W. W. UHLINGER.