

(Model.)

C. DRUMM & W. WYKER.

SPRING TAKE-UP FOR WAX THREAD SEWING MACHINES.

No. 320,857.

Patented June 23, 1885.

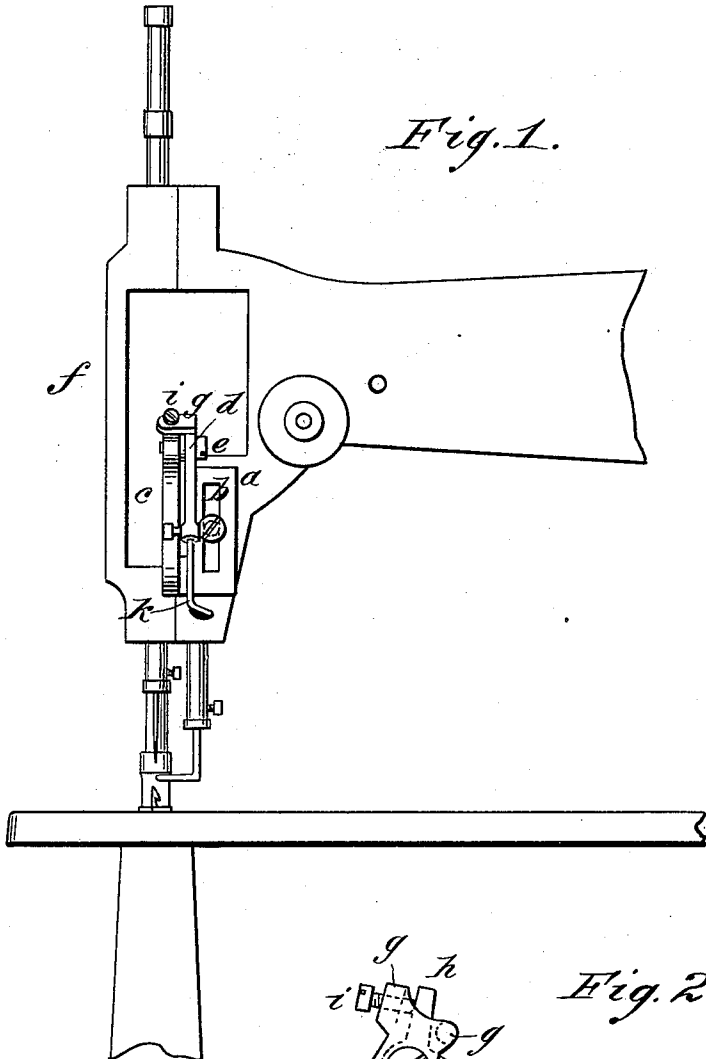


Fig. 1.

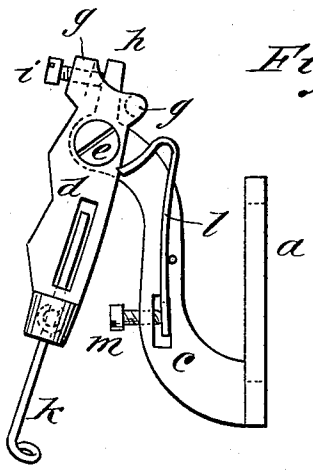


Fig. 2.

WITNESSES:

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UNITED STATES PATENT OFFICE.

CORNELIUS DRUMM AND WILLIAM WYKER, OF JEFFERSON CITY, MISSOURI,
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PLACE.

SPRING TAKE-UP FOR WAX-THREAD SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 320,857, dated June 23, 1885.

Application filed December 9, 1874. (Model.)

To all whom it may concern:

Be it known that we, CORNELIUS DRUMM and WILLIAM WYKER, of Jefferson City, in the county of Cole and State of Missouri, have invented a new and Improved Spring Take-Up for Wax-Thread Sewing-Machines, of which the following is a full, clear, and exact description.

Our invention consists in a spring take-up for wax-thread sewing-machines that is adjustable to suit the size of thread used and the length of stitch to be made, as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is an elevation showing the take up as applied to a machine, and Fig. 2 is a side view of the take-up separately.

The device is made in the form of an attachment to be applied to the head of the machine.

It consists of a plate, *a*, having a long slot, *b*, for the attaching-screw, and from the plate an arm, *c*, projects outward. On the outer end of arm *c* is a piece, *d*, attached by a pivot-screw, *e*, which allows a swinging movement of the piece to and from the head *f* of the machine, and the movement is limited by lugs *g*, extending at opposite sides of a projection, *h*, on arm *c*. Through one lug *g* a set-screw, *i*, passes, for regulating the extent of movement. In the lower end of piece *d* is an adjustable thread-guide, *k*. The spring *l* of the take-up is of flat form, and is held by its lower end extending through a slot in arm *c*, wherein it is clamped by a screw, *m*. The upper end of the spring bears on piece *d*, so that the force of the spring is exerted to press the piece *d* with thread-guide *k* outward. By adjusting the spring up and down, so that it bears at a point nearer to or farther from the pivot-screw *e*, its pressure is varied.

The whole attachment can be raised and lowered, so as to bring the thread the re-

quired distance from the fixed thread-guide, according to the work; and the guide *k* can also be adjusted for the same purpose, and the movement of the vibrating piece can be regulated according to the size of thread and length of stitch. The piece *d* is moved inward by the tension on the thread as the needle descends, and its return movement draws up the thread, thus producing even work.

We are aware that a take-up for sewing-machines, consisting of a bracket adapted to be secured to the head of the machine, a guide-carrier pivoted thereto, a spring having one end secured to the bracket and its free end engaging one of a series of notches in the carrier, and a set-screw for varying the vibration of the said carrier, is old, and we therefore do not claim such invention.

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

1. In a spring take-up for wax thread sewing-machines, the combination, with the slotted plate *a*, provided with the arm *c*, having projection *h*, of the guide-carrier *d*, pivoted to the arm *c*, and provided with the lugs *g*, projecting on opposite sides of the projection *h*, the set-screw *i*, and the spring *l*, secured to the arm *c*, and having its free end resting against the edge of the carrier, substantially as herein shown and described.

2. In a spring take-up for wax-thread sewing-machines, the combination, with the slotted plate *a*, provided with the arm *c*, having the extension *h*, the guide-carrier *d*, pivoted to the said arm and provided with the lugs *g*, and the set-screw *i*, of the spring *l*, having one end adjustably secured in a slot of the said arm by the set-screw *m*, and its free end resting against the carrier, substantially as herein shown and described.

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Witnesses:

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