

C. Parks,

Swift's Reel.

No. 102,309.

Patented Apr. 26, 1870.

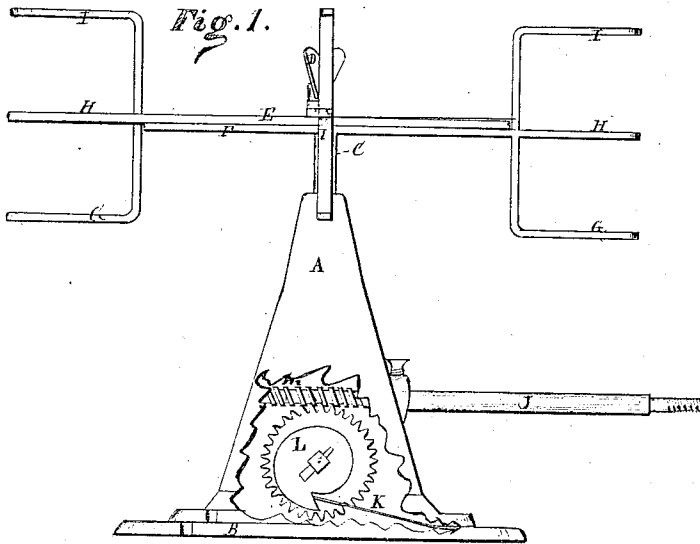
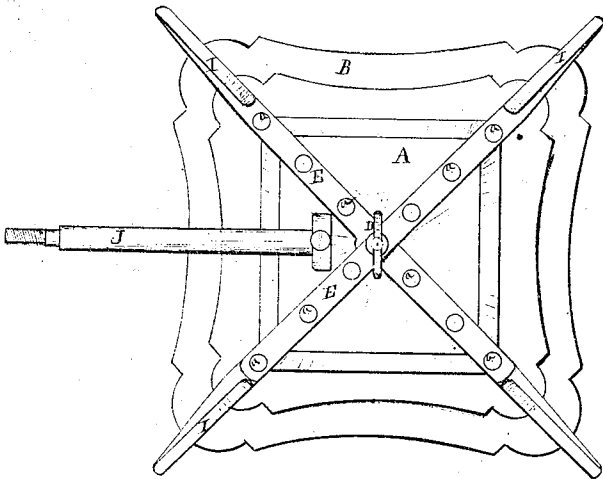


Fig. 2.



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CAROLINE PARKS, OF MILAN, OHIO.

Letters Patent No. 102,309, dated April 26, 1870.

IMPROVEMENT IN SWIFT AND REEL.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, CAROLINE PARKS, of Milan, county of Erie and State of Ohio, have invented a certain new and Improved Winding Clack-Reel and Swifts combined; and I do hereby declare that the following is a full, clear, and complete description, reference being had to the accompanying drawings making part of this specification, in which drawings—

Figure 1 is a side view of the apparatus.

Figure 2 a view of the top.

Like letters of reference refer to like parts.

This invention relates to the construction and arrangement of parts as hereinafter more fully described, forming a swift and reel.

In fig. 1—

A represents a hollow pyramidal metal standard having a broad base on which it stands, and by means of which it may be secured to the table for use.

In the apex of said standard is fitted, loosely, a spindle, C, to the extreme ends of which are secured, by means of the thumb-screw D, the radial arms E, fig. 2. Said arms are four in number, and arranged in pairs; one member of each pair is superimposed one upon the other, as shown in fig. 1, E F being a side view of one pair of arms.

The extreme end of each arm is provided with three fingers G H I, forming two divisions at each end of the arm.

This part of the apparatus, with the standard, constitutes the swift upon which is wound the yarn from the spindle of the spinning-wheel. The arms of the swift being made in pairs, as above described, allow of their extension and contraction in order to accommodate them to different-sized skeins that may be required.

A series of holes, *a*, ranged along each arm, admits of their adjustment on the spindle.

In order to convert the swift into a reel for the purpose of skeining the yarn, the arms E are removed

from the spindle and adjusted upon the end of the horizontal shaft J, to which they are secured in like manner by the thumb-screw D.

The position of the arm is now changed from a horizontal to a vertical relation to the standard, and thus revolves as a reel for winding the yarn.

The amount in each skein being determined by a click, consisting of a spring, K, the free end of which is made to rest upon the cam-wheel L, operated by an endless screw, *m*, on the shaft J in the teeth of the wheel; at each revolution of the wheel the spring falls into a notch, making a click, thereby noting each revolution, and, consequently, each skein or knot of yarn run on the reel.

By this easy and immediate conversion of a swift into a reel, and *per contra* a reel into a swift, is saved the expense of two machines usually employed for this purpose.

It is, also, much more convenient, as it occupies less room, and can be placed upon the table and thereon used, instead of standing upon the floor as the reel and swift now in use.

It is also much more convenient than the ordinary reel and swift, and, being constructed of metal, is, therefore, greatly more durable.

Claim.

What I claim as my invention, and desire to secure by Letters Patent, is—

The chambered metal standard or support A B, screw-shaft J, cam-wheel L, secured to the pinion and spring K, in connection with the adjustable forked arms E and spindle C, all constructed, arranged, and operated as described, to form a combined winding-reel and swift as set forth.

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Witnesses:

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