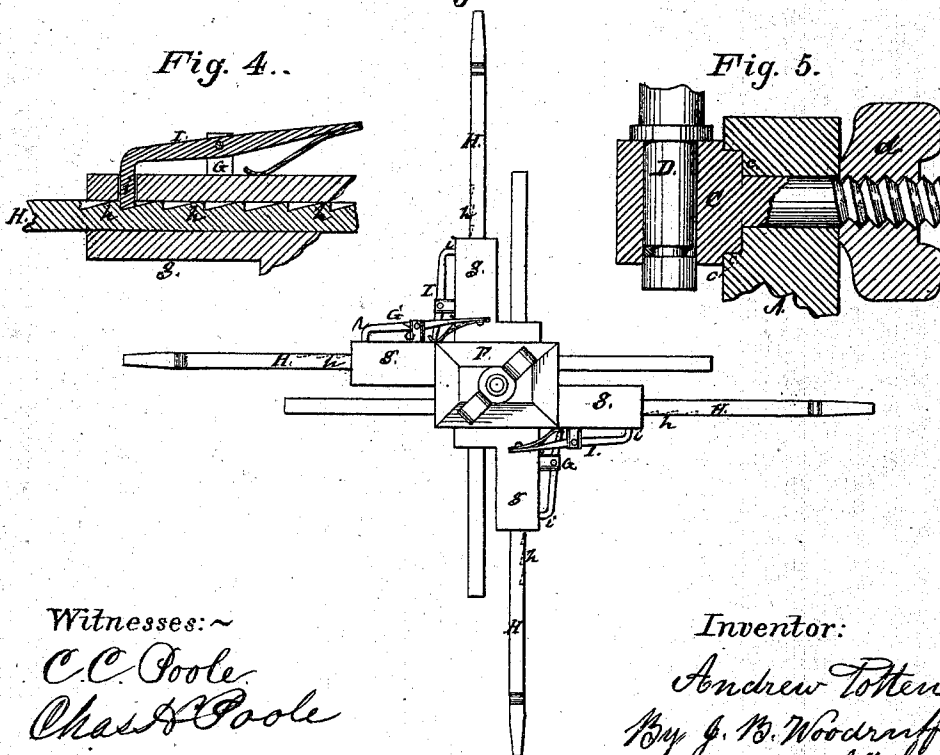
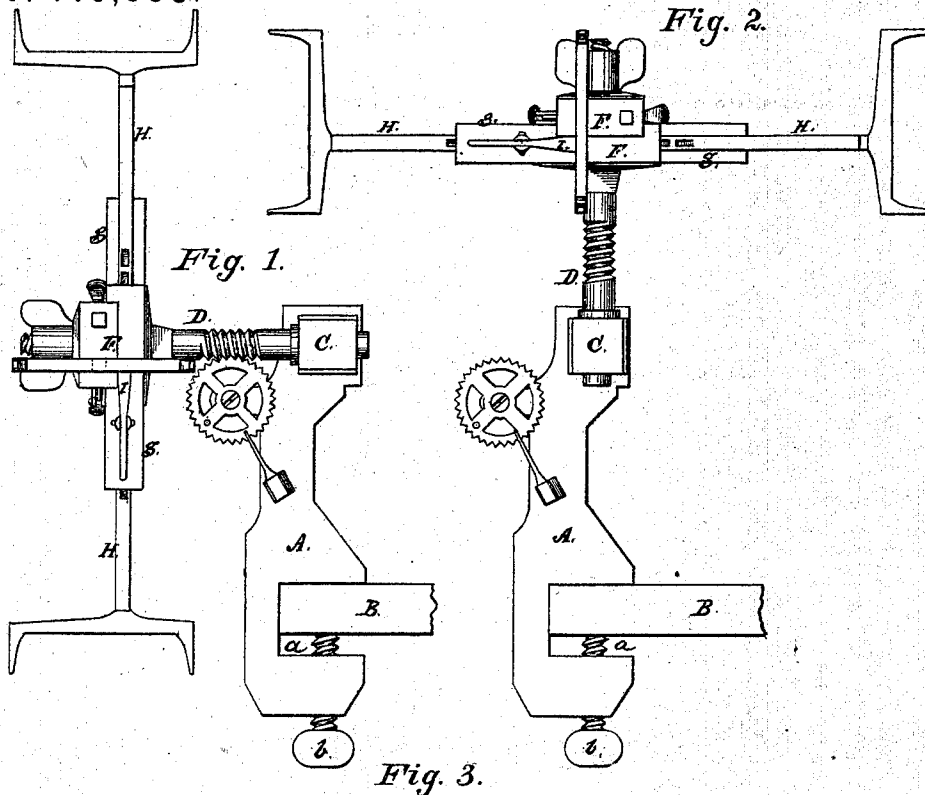


A. TOTTEN.

Combined Swifts and Reels.

No. 146,558.

Patented Jan. 20, 1874.



Witnesses:~
C.C. Poole
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Andrew Totten
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UNITED STATES PATENT OFFICE.

ANDREW TOTTEN, OF AUBURN, NEW YORK.

IMPROVEMENT IN COMBINED SWIFTS AND REELS.

Specification forming part of Letters Patent No. **146,558**, dated January 20, 1874; application filed December 16, 1873.

To all whom it may concern:

Be it known that I, ANDREW TOTTEN, of Auburn, in the county of Cayuga and State of New York, have invented certain new and useful Improvements in a Combined Reel and Swifts; and the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings making a part of this specification, in which—

Figure 1 represents a vertical side view of the apparatus secured to the edge of the table, showing it in position for reeling yarns into skeins. Fig. 2 shows a view of the same, with the reel-shaft elevated to a vertical position, so as to form a swift for winding yarn into balls, &c. Fig. 3 shows a front or face view of the hub or device for holding and securing the adjustable arms or skein-holders. Fig. 4 shows an enlarged side sectional view of the spring key and ratchet for holding the adjustable sliding arms in position. Fig. 5 shows a broken-off sectional view of the standard and the recessed joint, for changing the position of the reel from vertical to horizontal, and securing the same firmly in either position.

My invention relates to combined reels and swifts; and it consists in the square recess in the standard, and the corresponding square projection on the bolt, and piece that holds the revolving reel-shaft, so that when it is changed from a vertical to a horizontal it is held equally firm in both positions.

To enable others to make and use my improvement, I will describe it more in detail, referring to the drawings and the letters marked thereon.

The standard A may be made of hard wood or of metal, of any desired size and shape, ornamented or otherwise, it having a jaw, *a*, and a clamp or thumb screw, *b*, to hold it on the edge of the table B. In one side of the top of the standard A I make a square recess, *c*, as seen in Fig. 5, into which is fitted the square portion of the bolt or piece C, that forms the journal-box for the reel-shaft D. The round portion of the piece or bolt C extends through the

standard A, and is provided with a screw and thumb-nut, *d*, by which the piece C may be easily changed to place the device in either a horizontal or a vertical position, and hold it firmly to be used either as a reel or as a swift. For holding and adjusting the reel-arms H, as shown in Fig. 4, the hub F is made in two pieces and recessed on the inner faces, so that the arms fit together at right angles, and when placed upon the shaft D are held firmly by a thumb-nut, *f*. Each piece of the hub F has two projecting or extending portions, *g g*, on opposite sides, into which the arms H are fitted to slide in square holes, so that they will not turn. The arms H are provided with a series of hooked notches, *h*, into which the pin *i* on the spring-key I catches, to hold the arms H from being forced inward, while they are always free to be drawn out or expanded. The spring-keys I I are attached to the extended portions *g* of the hub F by the studs G, and are operated to allow the arms H to be forced in by pressing down on the spring end of the key.

I do not claim, broadly, combining a reel and swift, for I am well aware that has been done long ago, and is common property, as also are a number of the devices by which that purpose has been effected; but none of them that have ever come to my knowledge have been, in my opinion, sufficiently substantial, durable, and effective.

What I claim at my invention is—

In combination with the reel and swift shaft D, the standard A, provided with the square recess *c* near its top, and the square-ended piece or bolt C and thumb-nut *d*, the bolt forming the journal-box for the reel-shaft D, so that the shaft is firmly supported to operate in either a vertical or a horizontal position, substantially as herein shown and described.

In testimony whereof I hereunto subscribe my name.

ANDREW TOTTEN.

Witnesses:

J. B. WOODRUFF,
C. H. POOLE.