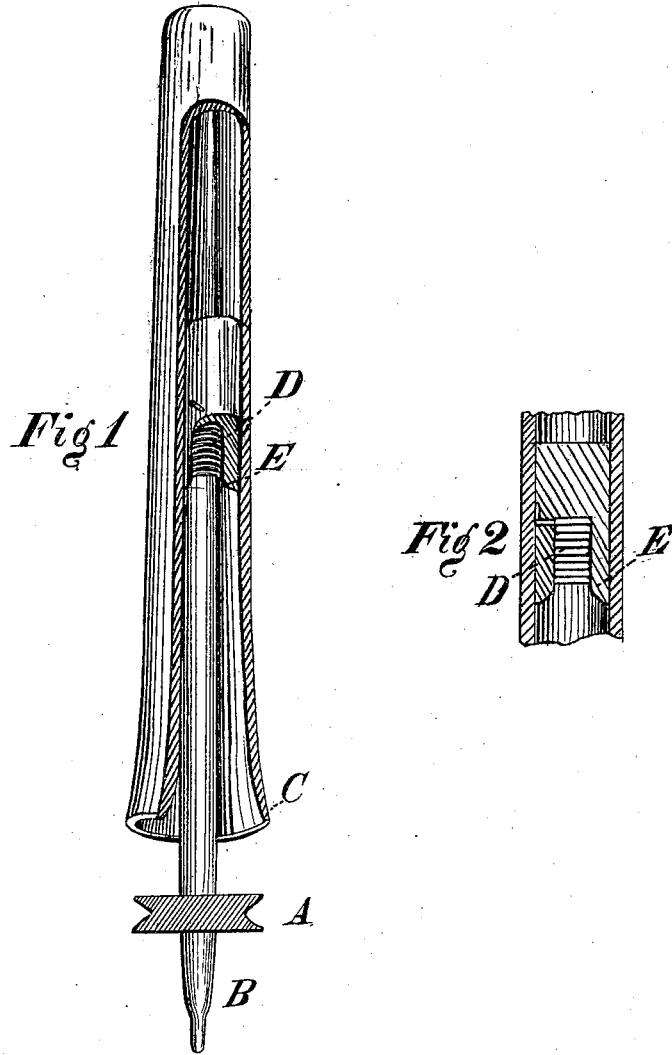


W. C. BURCH.

CLAMP BOBBINS FOR SPINDLES.

No. 180,000.

Patented July 18, 1876.



Witnesses  
*Robert H. Ball*  
*John Reif*

Inventor  
*Wm C. Burch*  
*A. M. Stout* Attorneys

# UNITED STATES PATENT OFFICE,

WILLIAM C. BURCH, OF GLOUCESTER CITY, NEW JERSEY.

## IMPROVEMENT IN CLAMP-BOBBINS FOR SPINDLES.

Specification forming part of Letters Patent No. 180,000, dated July 18, 1876; application filed June 15, 1876.

*To all whom it may concern:*

Be it known that I, WILLIAM C. BURCH, of Gloucester City, county of Camden, and State of New Jersey, have invented certain Improved Clamp-Bobbins for Sawyer's Spindle, of which the following is a specification:

My invention relates to seating a spiral spring within the bobbin of a spinning-machine, and having such spring to correspond in form to the spindle, which is inserted lengthwise within the coil of the spring. The spring should be so set with respect to the spindle that when the latter turns to the right the spring will be opened and allow free revolution of the spindle, but on the contrary, when the spindle is turned to the left, the spring, by reason of the frictional contact, will be wound up and closed, and will prevent revolution. Without some preventing device the bobbin would rise or turn backward upon the spindle.

My said improvement will be further described with reference to the accompanying drawings, in which—

Figure 1 represents a side view of the bobbin partially cut away, so as to display the

spindle B therein, and the bearing or seat E of the spring D in the bobbin C, the bearing E being partially cut away, also, in order to display the position of the spring upon the spindle; and Fig. 2 is a longitudinal central section of that portion of the bobbin which embraces the bearing itself and a side view of the spring seated therein.

Without further verbal description my said improvement will be fully understood.

The action of the spiral spring D serves just the purpose required; and,

Having fully described my improvement, what I claim as my invention, and desire to secure by Letters Patent, is—

The spiral spring D, seated within the bobbin C, adapted to allow the spindle B to turn to the right therein, and to prevent its turning to the left, substantially as and for the purpose described.

WILLIAM C. BURCH.

Witnesses:

A. M. STOUT,  
JOHN REISS.