

I. CUNDEY.

BOBBIN.

No. 174,947.

Patented March 21, 1876.

Fig. 1

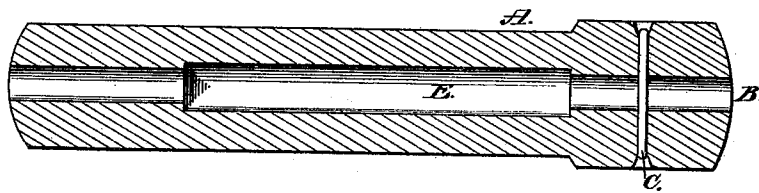
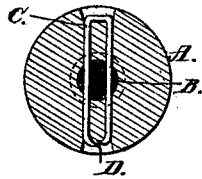


Fig. 2.



Witnesses:

Clarence H. Balis

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Inventor:

Isaac Cundy

UNITED STATES PATENT OFFICE.

ISAAC CUNDEY, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN BOBBINS.

Specification forming part of Letters Patent No. **174,947**, dated March 21, 1876; application filed July 3, 1875.

To all whom it may concern :

Be it known that I, ISAAC CUNDEY, of the city and county of Philadelphia and State of Pennsylvania, have invented a certain new and useful Improvement in the Manufacture of Bobbins; 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 use to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to making bobbins; and consists in inserting a staple in the head of the bobbin transversely to its length, and upsetting the tips in such a manner as to form a band around the center, thereby giving greater strength to the bobbin, and more steadiness to its motion.

Referring to the drawings, Figure 1 represents a sectional view of the bobbin; Fig. 2, a transverse section.

A is the bobbin; B, the center for the spindle; C, the staple; D, the tips upset, and E the recess. The staple is inserted by first boring holes in the head, and then, by proper machinery, upsetting the tips, the staple being set beneath the outer surface of the bobbin.

This invention is particularly applicable to what is known as the "Excelsior Bobbin," which is made very light, the motion being transmitted to the bobbin by two pins in the head, resting on surfaces formed for the purpose on the spindle. These pins are now put in a bushing and inserted in the bobbin, the continuation of the bushing forming a recess to steady the bobbin, but leaving the bobbin a mere shell. By my method of making the bobbin, I am enabled to recess it in the solid wood before putting in the staple, and also make the bobbin of one piece of wood.

I do not limit my invention in its application, however, to the Excelsior Bobbin, nor to inserting the staple in the head, the invention being applicable to all bobbins, and staples may be inserted in other parts of the bobbin, where strength is required.

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

The described bobbin, having the staple inserted and secured in its head, substantially as shown and set forth.

ISAAC CUNDEY.

Witnesses:

CLARENCE W. BALIS,
GEO. T. MARTIN.