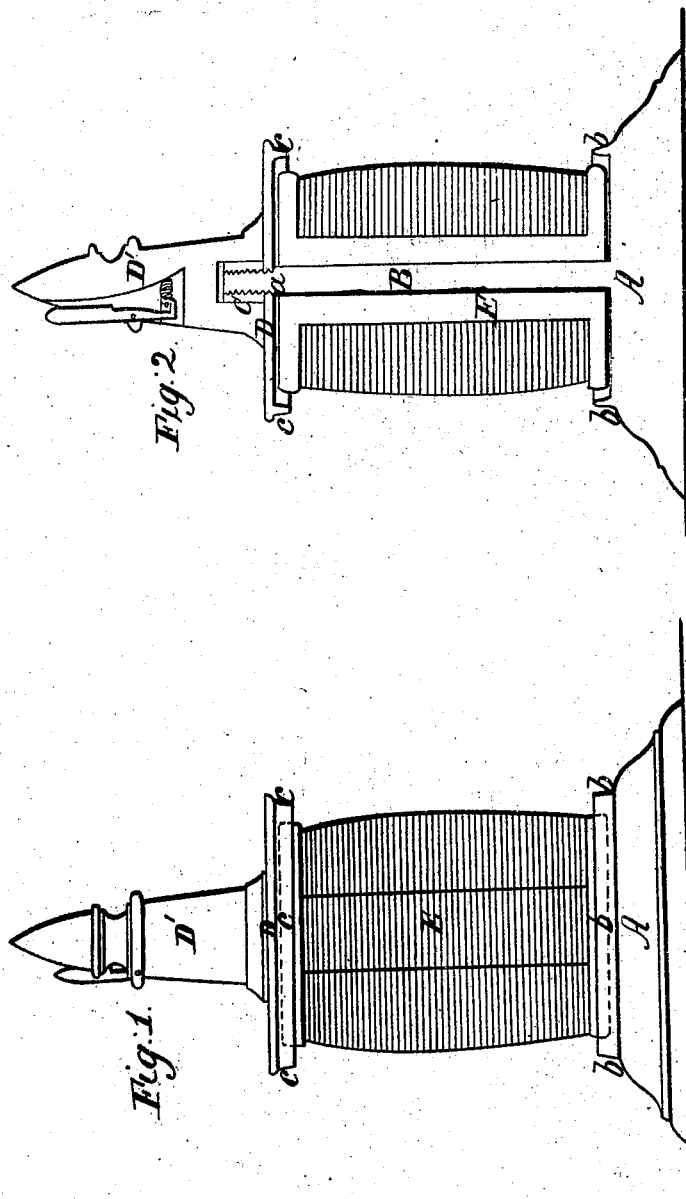


N. C. Byram.
Winding Bobbin.

N^o 5,038.

Patented Mar. 27, 1847.



UNITED STATES PATENT OFFICE.

NOAH C. BYRAM, OF BOSTON, MASSACHUSETTS.

TWINE-STAND.

Specification of Letters Patent No. 5,038, dated March 27, 1847.

To all whom it may concern:

Be it known that I, NOAH C. BYRAM, of Boston, in the county of Suffolk and State of Massachusetts, have invented a certain
5 new and useful Improvement in Bobbin-Stands, Such as are in Use in Stores, Counting-Rooms, and Various other Places; and I do hereby declare that the same is fully described and represented in the following
10 specification and accompanying drawings, letters, figures, and references thereof.

Of said drawings, Figure 1 denotes an external or side elevation of one of my improved bobbin stands, having a bobbin filled
15 with twine applied to it. Fig. 2 is a vertical central and transverse section of it.

Said stand is composed of a base A made of metal or other proper material and a round rod or axis B inserted and fixed in the
20 central part of said base and being made with a shoulder (*a*) formed upon its upper end, and a screw above said shoulder as seen in Fig. 2. A circular cap piece D having a hole bored through its center is placed upon
25 the rod B so as to rest upon the shoulder (*a*) and have the screw of the rod projecting above its upper surface as seen in Fig. 2. The cap piece is confined down upon the shoulder by a nut C or a conical or other
30 proper shaped piece of wood D' secured upon the screw of the rod.

E denotes the bobbin or reel placed upon the round rod B, and resting upon the surface of the base A, and kept in position upon
35 the rod by the cap piece D.

The above with certain exceptions hereinafter to be described may be said to constitute the bobbin stand in common use. The twine on the bobbin is unreeled by sim-

ply pulling upon it so as to cause the bobbin 40 to rotate upon its rod B.

My improvement in said stand consists in combining with it and also with the cap piece vertical lips or flanches *b* and *c* one of which viz. *b* is made to extend entirely 45 around the lower head *d* of the bobbin and to rise up above the lower surface of the said head as seen in the drawings. The other flanch *c* in a similar manner extends downward from the cap plate and around the 50 upper head *e* of the bobbin and below the upper surface of the said head.

The object of the said flanches is to prevent the twine on the bobbin from either passing between the lower surface of the 55 lower head of the bobbin and the upper surface of the base A or between the upper surface of the upper head of the bobbin and the lower surface of the cap piece as it very often does in the ordinary bobbin stand and 60 by so doing either becomes entangled or so wedged between the surfaces in apposition as to render it nearly if not entirely impossible to rotate the bobbin until the cause of the difficulty is removed. 65

I claim therefore—

The lip or flanch as applied to or combined with either the base or cap piece and arranged with respect to the bobbin in the manner and for the purpose as above specified. 70

In testimony whereof I have hereto set my signature this eighth day of December A. D. 1846.

NOAH C. BYRAM.

Witnesses:

R. H. EDDY,

W. H. LEIGHTON.