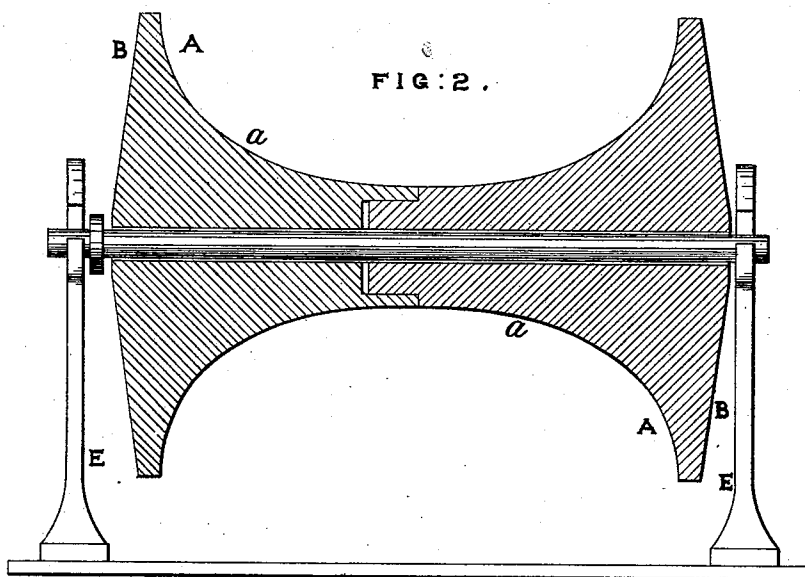
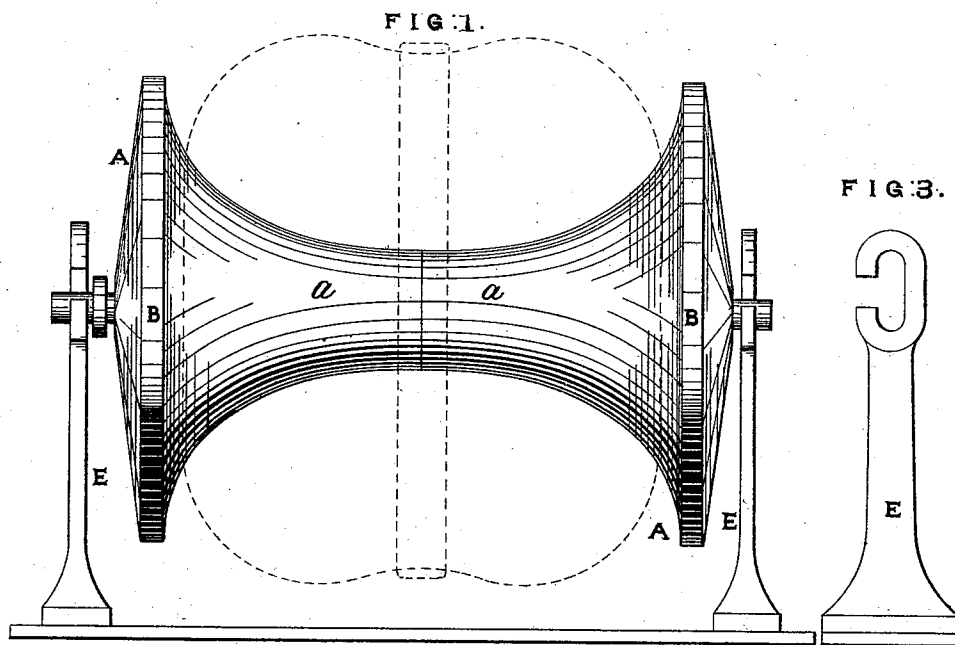


(No Model.)

R. HAYNES & J. WILCOCK.
BOBBIN OR SPOOL.

No. 507,124.

Patented Oct. 24, 1893.



WITNESSES

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UNITED STATES PATENT OFFICE.

RICHARD HAYNES, OF BIRMINGHAM, AND JOHN WILCOCK, OF MANCHESTER,
ENGLAND.

BOBBIN OR SPOOL.

SPECIFICATION forming part of Letters Patent No. 507,124, dated October 21, 1893.

Application filed October 27, 1891. Serial No. 409,988. (No model.)

To all whom it may concern:

Be it known that we, RICHARD HAYNES, of Birmingham, in the county of Warwick, and JOHN WILCOCK, of Manchester, in the county of Lancaster, England, subjects of the Queen of Great Britain, have invented certain new and useful Improvements in Bobbins or Spools for Yarn, Thread, Cord, or other Material, of which the following is a specification.

10 This invention relates to the bobbins or spools upon which thread, cord or other material may be placed to be held or carried when being unwound and it is designed with the object of providing a bobbin or spool 15 which can be easily withdrawn from or inserted in a full roll or ball of the material without disarranging the inner layers thereof.

It consists essentially of a bobbin, or spool, divided transversely preferably at or near 20 the center of the barrel or tube the two parts being tapered from the periphery of the flange to the center so that the barrel or tube can be readily inserted in or withdrawn from the roll or ball of material.

25 The invention will be fully described with reference to the accompanying drawings.

Figure 1, is a front elevation of the bobbin prepared to receive a ball of twine (the twine being shown in dotted lines); Fig. 2, a sectional elevation of same, and Fig. 3, an end elevation of the bobbin stand.

30 The bobbin or spool A, is constructed with a central barrel or tube *a* with a flange B on each end. The flanges B are of any suitable construction and are attached to the ends of the barrel or tube *a* by any ordinary means, or formed integral therewith.

40 The barrel or tube *a* of the bobbin is at or near its center divided transversely so as to form a bobbin in two parts, one part carrying one flange and the other part the other flange each part being tapered from the periphery of the flange toward the center.

45 The bobbin A may be of any size or any diameter and the barrel or tube *a* may be of

any required length or diameter to suit the purpose or material to which it is to be applied.

The two parts of the barrel or tube *a* are firmly secured together in any convenient way. 50 In the drawings, a telescopic joint is shown one end of the divided barrel fitting into the other. In this form the two may be held together by the friction of the joint or a bayonet joint may be formed thereon to hold them 55 secure. When thus jointed together the parts take the form of an ordinary bobbin or spool.

Instead of being hollow, as shown in Fig. 2, to receive a movable spindle the bobbin may have a pivot fixed in each end and the 60 spindle or pivots are mounted in a suitable frame E.

What we claim, and desire to protect by Letters Patent, is—

1. A bobbin or spool transversely divided 65 across the barrel into separate parts each provided with a flange at the outer end and tapering in a gradual curve from the periphery of the flange to the center of the barrel and the two parts connected firmly together 70 by an attachment on one with which the other engages substantially as described.

2. In a bobbin for holding yarn or twine the combination of the two separate parts 75 each part tapering in a gradual curve from the periphery of the flange to the center of the barrel said parts being attached firmly together, a spindle passing loosely there- 80 through upon which they rotate and the movable stand E upon which the spindle is supported substantially as described.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

RICHARD HAYNES.
JOHN WILCOCK.

Witnesses:

I. OWDEN O'BRIEN,
CHAS. OVENDALE.