

(No Model.)

O. C. BURR.
BOBBIN HOLDER FOR SPINDLES.

No. 538,501.

Patented Apr. 30, 1895.

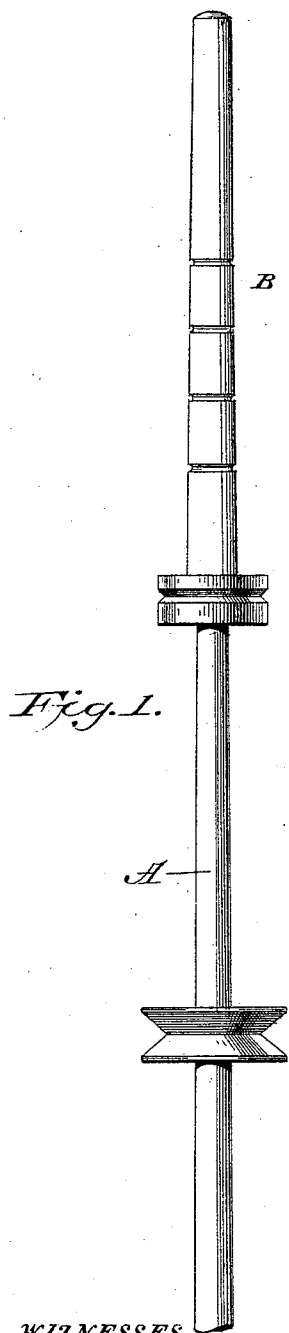


Fig. 1.

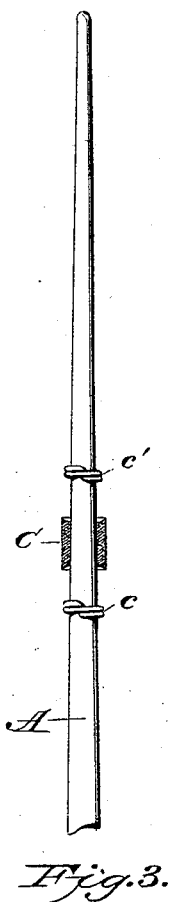


Fig. 3.

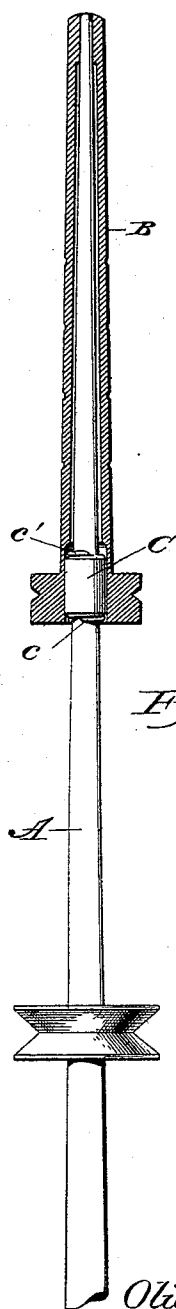


Fig. 2.

WITNESSES
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UNITED STATES PATENT OFFICE.

OLIVER C. BURR, OF WESTVALE, MASSACHUSETTS.

BOBBIN-HOLDER FOR SPINDLES.

SPECIFICATION forming part of Letters Patent No. 538,501, dated April 30, 1895.

Application filed February 28, 1895. Serial No. 539,999. (No model.)

To all whom it may concern:

Be it known that I, OLIVER C. BURR, a citizen of the United States of America, residing at Westvale, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Bobbin-Holders for Spindles; 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 art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of this invention is to provide a spindle with means for holding the bobbin in frictional contact therewith; and it consists in providing the spindle with a cork sleeve which is secured in place by independent wire coils of less external diameter than the cork sleeve, the coils serving the double purpose of holding the cork sleeve in position and preventing its rotation upon the spindle, as will be hereinafter fully set forth and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a side elevation showing the bobbin in place upon the spindle. Fig. 2 is a side elevation showing the bobbin in section; and Fig. 3 is a detail view with the parts separated upon the spindle, the cork sleeve being in section.

In this class of invention numerous attempts have been made to provide a cheap, simple and effective means for holding the bobbin in proper position upon the spindle, and metallic sleeves, rubber tubes and yarn packings have been suggested, but in practice these devices have their objections, the metal springs being liable to slip on the smooth surface of the spindle and be retained in the bobbin. They also cut and wear the bobbin. The rubber sleeves are objectionable in that they are destroyed by contact with the oil and they are also liable to become heated and adhere to the bobbin. The wrapping of yarn upon the spindle is a makeshift usually employed and great loss of time ensues from its use as it invariably pulls off the spindle with the bobbin.

The objections incident to the devices hereinbefore described are fully overcome by my improvement hereinafter described.

A designates a spindle of the construction usually employed in spinning machines, and B the bobbin which is of the well known type.

C designates a cork sleeve or tubular cork section and *c* and *c'* designate coils of wire, the diameter of the wires being less than the thickness of the cork sleeve. These coils have normally an internal diameter considerably less than the diameter of the spindle to which they are applied, and the ends of the cork sleeve are beveled inwardly so that the coils will lie partially within the sleeve.

In applying my invention to a spindle one of the wire coils is first placed over the end of the spindle and driven down to the proper position thereon so as to firmly embrace said spindle. The cork sleeve C is then placed over the end of the spindle and pressed down upon the coil thereon, after which the other coil is driven down in contact with the cork sleeve. The cork sleeve is of such size that it will properly fit the bobbin, but should the diameter of the same be diminished it can be slightly expanded by driving the upper coil down.

It will be noted that as the coils are originally of the same diameter the upper one can be more readily removed, and should the cork sleeve become destroyed it can be readily replaced.

The device can be quickly made and is cheap in construction and efficient in use. Cork appears to possess certain qualities which render it desirable for this use, it being elastic and not affected by oil, or moisture, or heat.

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

1. A bobbin holder for spindles, consisting of expansible bands or coils *c* and *c'* and an interposed cork sleeve, which is of a greater external diameter than the external diameter of the coils, substantially as shown and for the purpose set forth.

2. A bobbin holder for spindles, compris-

ing expansible coils *c* and *c'* and an interposed
cork sleeve with inwardly-beveled ends, the
coils being held upon the spindle by fric-
tional contact therewith, the external diam-
5 eter of the sleeve being greater than the ex-
ternal diameter of the coils, for the purpose
set forth.

In testimony whereof I affix my signature
in presence of two witnesses.

OLIVER C. BURR.

Witnesses:

WM. H. KELLEY,
JOHN B. COURTNEY.