

No. 649,639.

Patented May 15, 1900.

E. E. HENDRICK.
BOBBIN.

(Application filed Aug. 3, 1899.)

(No Model.)

Fig. 1

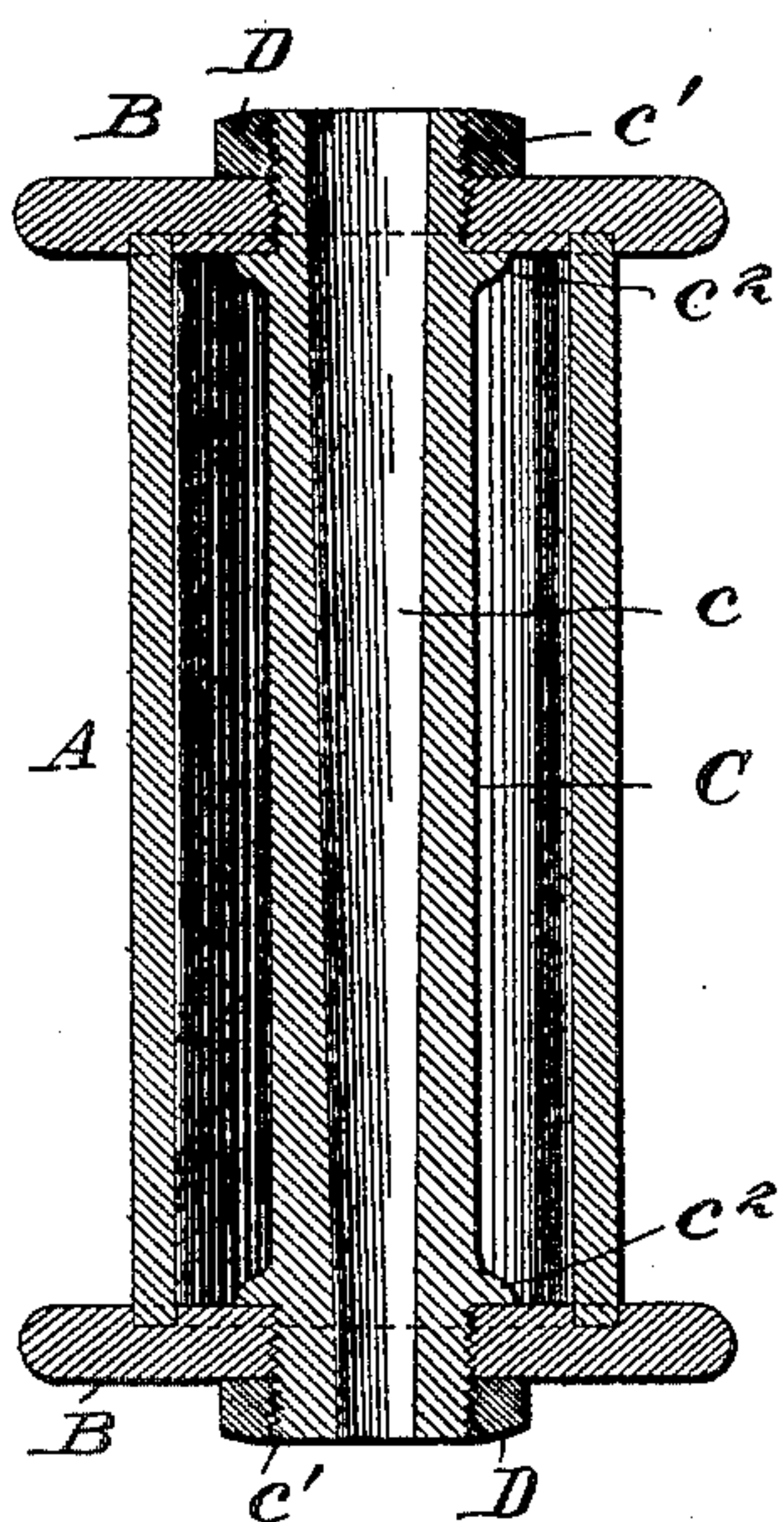
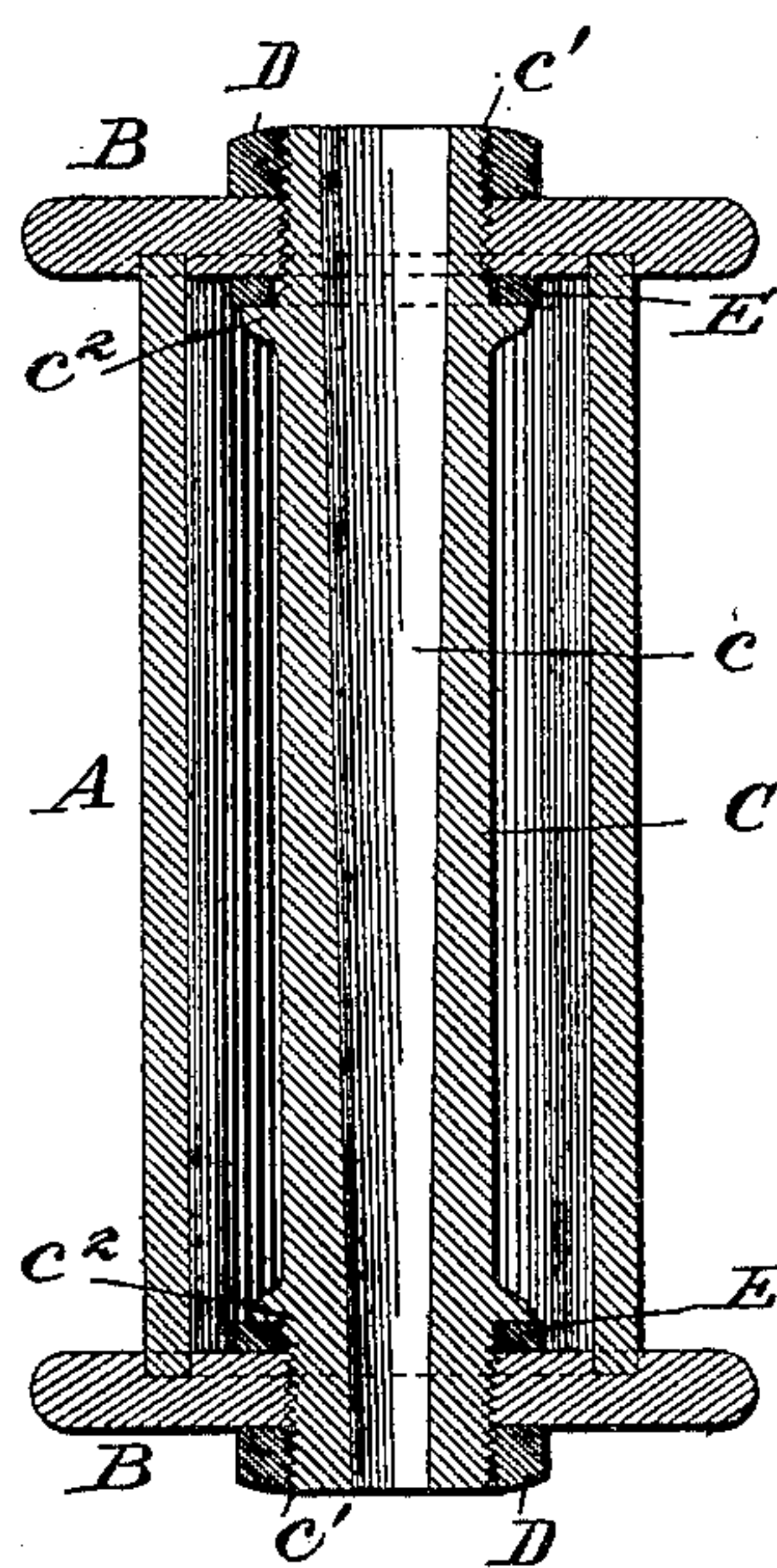


Fig. 2



Witnesses:

Jas. F. Coleman
Geo. R. Taylor

Inventor

Eli E. Hendrick
By Myr. Edwards & Byers

Att'ys.

UNITED STATES PATENT OFFICE.

ELI E. HENDRICK, OF CARBONDALE, PENNSYLVANIA.

BOBBIN.

SPECIFICATION forming part of Letters Patent No. 649,639, dated May 15, 1900.

Application filed August 3, 1899. Serial No. 725,945. (No model.)

To all whom it may concern:

Be it known that I, ELI E. HENDRICK, a citizen of the United States, residing at Carbon-
5 State of Pennsylvania, have invented certain new and useful Improvements in Bobbins, of which the following is a description.

The object of the present invention is to produce a bobbin constructed of few parts,
10 which shall be easily assembled and applied, and which shall be durable in operation and cheap of manufacture.

In carrying out the invention I preferably construct the bobbin, in whole or in part, of
15 hard fiber. In an approved form of construction I employ a tubular body of wood, the heads at either end of this body being of hard fiber. The bobbin so constructed is mounted upon an internal core or mandrel
20 in the manner hereinafter described.

In the drawings, Figure 1 is a central section illustrating my invention, and Fig. 2 is a similar view illustrating a modification.

Referring to the figures, in which similar
25 reference-letters denote corresponding parts, A designates the tubular body, preferably of wood and here shown as of uniform diameter throughout. At either end this body is provided with a circular head B, formed, preferably, of hard fiber. These heads are se-
30 cured to the body in any suitable manner. In the drawings I have shown the inner surfaces of the heads B as provided with annular recesses in which the ends of the body are
35 secured.

C designates the core or mandrel. As here shown, this is provided with a tapering bore
40 c to receive the spindle on which the bobbin is mounted. Each end of the mandrel is exteriorly screw-threaded, as shown at c'. The mandrel is also provided near each end with an annular shoulder c². The screw-threads
45 c' extend to or toward these shoulders, as hereinafter described.

The heads B are centrally perforated and the sides of such perforations are preferably
50 screw-threaded, so as to permit such heads to be screwed upon the threaded ends of the mandrel C.

D D designate jam-nuts interiorly threaded and engaging with the threaded ends of the
mandrel C outside the heads B.

It will be seen that when the heads are in

proper position, as shown in the drawings, their under surfaces adjacent to the central
55 threaded perforations rest upon and bear against the shoulders c². On screwing the jam-nuts D down upon said heads all the parts are held securely against displacement.

In Fig. 2 I have illustrated a modification, 60 which consists of interposing washers E between the shoulders c² and the inner surfaces of the heads B. These washers may be interiorly threaded, if desired, and may be made of any suitable material. By employ- 65 ing washers E of different thicknesses a standard length of mandrel may be used in connection with bodies of different lengths, as will be understood. In the drawing, Fig. 2 the screw-threads on the ends of the man- 70 drel are shown as ending short of the shoulders c², the sides of the central perforation in the washers E in this case not being threaded.

What I claim, and desire to secure by Let-
ters Patent, is—

1. As a new article of manufacture, a bob-
bin having a body provided with heads, a
hollow core or mandrel provided with shoul-
ders against which said heads bear and means
for clamping said heads against said shoul- 80
ders, substantially as described.

2. As a new article of manufacture, a bob-
bin having a body provided with heads, a
hollow core or mandrel having shoulders
against which said heads bear, the ends of 85
said core or mandrel being threaded and protruding through and beyond said heads, and jam-nuts engaging with the projecting thread-
ed portions and adapted to clamp said heads
in position, substantially as described. 90

3. As a new article of manufacture, a bob-
bin having a body provided with heads, a
hollow core or mandrel having shoulders
carrying washers against which said heads 95
bear, the ends of said core or mandrel being threaded and protruding through and beyond said heads, and jam-nuts engaging with the projecting threaded portions and adapted to clamp said heads in position, substantially
as described. 100

This specification signed and witnessed this
1st day of August, 1899.

ELI E. HENDRICK.

Witnesses:

GEO. W. CROSS,
J. R. VANDERFORD.