

No. 649,638.

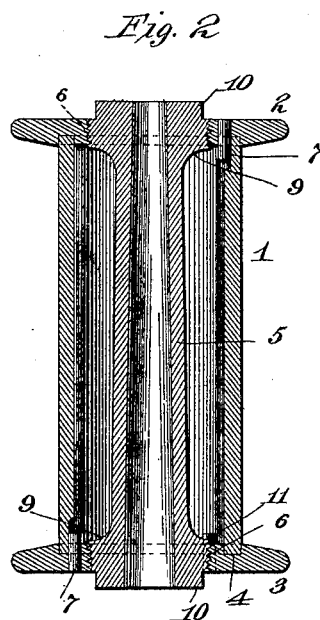
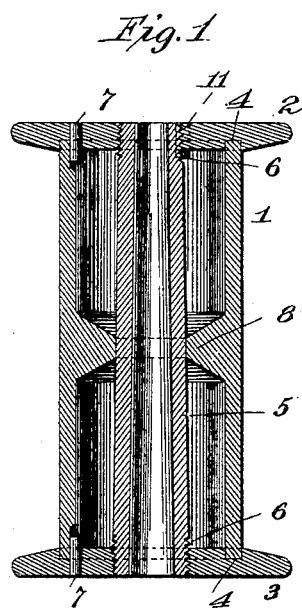
E. E. HENDRICK.

Patented May 15, 1900.

BOBBIN.

(Application filed July 16, 1899.)

(No Model.)



Witnesses:

Jas. F. Coleman
Geo. R. Taylor

Inventor

Eli E. Hendrick
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Att'ys.

UNITED STATES PATENT OFFICE.

ELI E. HENDRICK, OF CARBONDALE, PENNSYLVANIA.

BOBBIN.

SPECIFICATION forming part of Letters Patent No. 649,638, dated May 15, 1900.

Application filed July 15, 1899. Serial No. 723,916. (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-
dale, in the county of Lackawanna and State
of Pennsylvania, have invented a certain new
and useful Improvement in Bobbins, of which
the following is a description.

My invention relates to various new and
useful improvements in bobbins; and the ob-
ject of the invention is to simplify the con-
struction, increase the efficiency, and reduce
the cost of manufacture of such devices.

I purpose applying the invention especially
to bobbins constructed wholly or partly of
hard fiber.

In order that the invention may be better
understood, attention is directed to the ac-
companying drawings, forming a part of this
specification, and in which—

Figure 1 is a longitudinal section of one
form of my improved bobbin, and Fig. 2 a
similar view of another form thereof.

In both of the above views corresponding
parts are represented by the same numerals
of reference.

1 represents a tubular body made of wood,
metal, or any other suitable material, and 2
3 the circular heads thereof. Preferably the
ends of the body 1 are seated in annular re-
cesses 4 in said heads.

5 is a mandrel or core located within the body
1 and having screw-threaded ends 6 6, which
engage screw-threaded openings formed cen-
trally in the heads 2 3, as shown. The man-
drel or core 5 is provided with a bore (here
shown as tapered, although it may be straight)
for the proper mounting of the bobbin, as
will be understood.

In assembling the parts of the bobbin one
of the heads is first engaged with one end of
the core or mandrel 5. The body 1 is then in-
serted in place over the said core or mandrel
and the other head is screwed upon the other
end of said core, whereby the body 1 will be
clamped tightly between said heads. Dis-
placement of the heads relative to the body
is prevented in any suitable way—as, for in-
stance, by a pin 7 inserted in an opening ex-
tending through the head and into the body,
as shown, said opening being formed after
the parts have been assembled or by a pin,
such as shown in dotted lines at 11, inserted

in an opening extending through the head
and into the core or mandrel 5. If desired,
the body 1 may be formed with a rib 8, fitting
over the core or mandrel 5 and by means of
which the body will be very materially stiff-
ened at its central part.

The modification shown in Fig. 2 is prac-
tically identical with that just described, with
the exception that the rib 8 is omitted, and
the core or mandrel 5 is provided at its ends
with enlarged portions 9 9, which are screw-
threaded into the two heads. With this modi-
fication also the enlarged portions of the core
or mandrel 5 for facility of adjustment are
made to extend beyond the heads 2 3 at 10,
as shown.

A bobbin made in accordance with my pres-
ent invention can be constructed very cheaply
and will be light and durable in use.

Having now described my invention, what
I claim as new, and desire to secure by Letters
Patent, is as follows:

1. As a new article of manufacture, a bob-
bin provided with a cylindrical body, a head
at each end of said body, a hollow core or
mandrel engaging the heads by screw-thread-
ed connections, whereby the heads will be
clamped tightly in position against the ends
of the body, and means for preventing the
heads from rotating with respect to the body,
whereby disengagement of the heads from
the screw-threaded ends of the core or man-
drel will be prevented, substantially as set
forth.

2. As a new article of manufacture, a bob-
bin provided with a body, a head at each end
of said body, a hollow core or mandrel en-
gaged with said heads and clamping the same
upon the body, and a pin passing through each
head into the body for preventing the disen-
gagement of the body from said core or man-
drel, substantially as set forth.

3. As a new article of manufacture, a bob-
bin provided with a body, a head at each end
of said body, a hollow core or mandrel screw-
threaded into said heads and clamping the
same upon the body, and a pin passing
through each head into the body for prevent-
ing the disengagement of the heads from said
core or mandrel, substantially as set forth.

4. As a new article of manufacture, a bob-
bin provided with a cylindrical body, a cir-

cular head at each end of said body, a hollow
core or mandrel mounted within the body and
having enlarged ends which are screw-thread-
ed into said heads, and a pin passing through
5 each head into the body for preventing said
heads from being unscrewed, substantially
as set forth.

5. As a new article of manufacture, a bob-
bin provided with a cylindrical body, a cir-
10 cular head at each end of said body, a hollow
core or mandrel mounted within the body
and having enlarged ends which are screw-

threaded into said heads, said enlarged ends
extending beyond the heads, and a pin pass- 15
ing through each head into the body for pre-
venting said heads from being unscrewed,
substantially as set forth.

This specification signed and witnessed
this 10th day of July, 1899.

ELI E. HENDRICK.

Witnesses:

W. T. COLVILLE,
L. A. BASSETT.