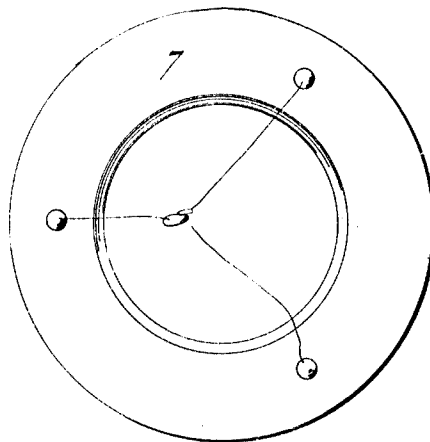
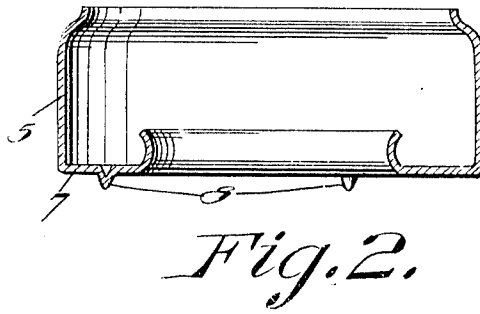
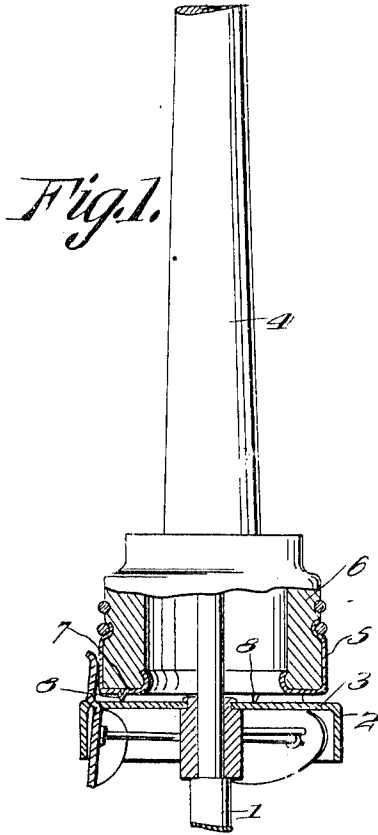


G. HAMBLETON.
BOBBIN.
APPLICATION FILED JUNE 19, 1912.

1,061,239.

Patented May 6, 1913



Witnesses
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BOBBIN.

1,061,239.

Specification of Letters Patent.

Patented May 6, 1913.

Application filed June 19, 1912. Serial No. 704,497.

To all whom it may concern:

Be it known that I, GEORGE HAMBLETON, a citizen of the United States, residing at Goffstown, in the county of Hillsboro and State of New Hampshire, have invented a new and useful Improvement in Bobbins, of which the following is a specification.

This invention relates to certain new and useful improvements in bobbins, and relates more particularly to the construction of the metal ferrule at the base of the bobbin.

The object of the invention is to support the bobbin in spaced relation to and above the top of the metal bobbin holders now being used, to prevent the two metal surfaces, namely, the base of the bobbin ferrule and the top of the metallic holder from contacting with each other, since such contact has frequently resulted in the cutting of the thread.

In the drawings: Figure 1 is a fragmentary side elevation, parts being broken away and shown in section of the bobbin equipped with the present invention and shown in use. Fig. 2 is a vertical sectional view of the invention in detached position and Fig. 3 is a bottom plan view thereof.

The spindle 1 is provided with a metal bobbin holder 2 that has a flat top face 3. The bobbin holder illustrated is like that disclosed in U. S. Patent No. 860,933, issued on July 23, 1907, to T. J. Murdock.

The bobbin has a metal ferrule 5 attached to its head 6, the ferrule 5 being formed to have a ring like base 7 that is provided with

a plurality of, preferably three, teats or projections, which in the present disclosure of the invention have been shown as being punched out from the bottom 7 of the ferrule 5 to form conoidal-shaped teats the apices of which seat on the top 3.

From the above it will be seen that the teats or projections 8 rest on the top 3 of the bobbin holder 2 and thereby prevent contact of the bottom of the ferrule 5 with the top 3 of the bobbin holder 2. As heretofore stated, oftentimes when the bobbin is placed on a spinning machine the two metal surfaces 3 and 7 upon coming in contact cut the thread, thereby requiring the attention of the attendant to start the thread on the bobbin for the purpose of spinning same thereonto.

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

In combination with a bobbin, a ferrule attached to the bobbin head and having its base formed with a plurality of outwardly punched conoidal-shaped teats for engagement with the top of the bobbin holder to space the ferrule base from said top.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEORGE HAMBLETON.

Witnesses:

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