

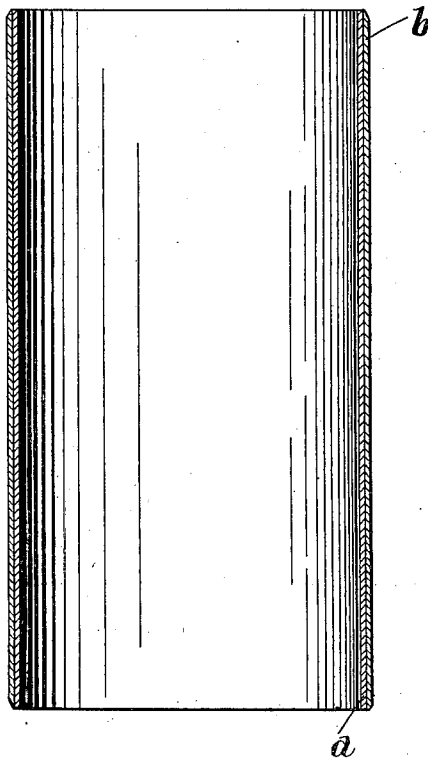
H. KÜTTNER.

BOBBIN FOR USE IN CONNECTION WITH THE MANUFACTURE OF ARTIFICIAL SILK.

APPLICATION FILED JAN. 2, 1913.

1,090,399.

Patented Mar. 17, 1914.



WITNESSES

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HUGO KÜTTNER, OF PIRNA, GERMANY.

BOBBIN FOR USE IN CONNECTION WITH THE MANUFACTURE OF ARTIFICIAL SILK.

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Specification of Letters Patent.

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Application filed January 2, 1913. Serial No. 739,717.

To all whom it may concern:

Be it known that I, HUGO KÜTTNER, manufacturer, a subject of the German Emperor, and residing at Pirna, Saxony, Germany, have invented certain new and useful Improvements in and Relating to Bobbins for Use in Connection with the Manufacture of Artificial Silk, of which the following is a specification.

The bobbins used hitherto in connection with manufacture of artificial silk for the reception of the artificial silk thread were chiefly made from lacquered cardboard. Since, however, as is well known the bobbin together with the thread are subjected to the action of different acid baths, are subsequently placed in a washing or rinsing fluid, and then conveyed into a drying chamber and so forth, it is not astonishing they become deformed in quite a short space of time and receive many dents, bulges and the like. These deformations in their turn of course affect the uniform quality of the thread manufactured, apart from the fact that the consumption of the bobbins is rather considerable. Further the bobbins become cracked and the substances of the precipitating baths collect in these cracks where they remain even after the washing and rinsing process, and thus damage the thread during dryings, which damage is particularly considerable if acid ingredients of the precipitating baths are lodged in said cracks. In order to remove these drawbacks it has already been suggested to make the bobbin from metal, for instance aluminium, as other metals cannot be employed as practically all of them are not capable of resisting the action of acids and are moreover comparatively heavy. Even aluminium, however, does not answer the purpose completely, since the outer surface of such an aluminium bobbin on which the thread is wound, is liable to oxidation which causes the thread to adhere to the surface of the bobbin thus causing it to tear when unwinding the same.

This invention consists in a bobbin comprising an inner metallic core (preferably aluminium) and an outer cardboard shell preferably provided with a coating of lacquer.

A bobbin constructed in accordance with this invention is shown in section by way of example in the accompanying drawings.

As shown in the drawing, an outer cardboard cylinder *b* is slipped over an inner metal cylinder *a*. This arrangement is so eminently adapted for removing the above mentioned drawbacks that the employment of the improved bobbin is of the greatest importance for the continuity and economy of the manufacturing process.

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

1. A bobbin for use in connection with the manufacture of artificial silk comprising an inner cylinder of aluminum, and an outer cylinder of cardboard completely covering the outer surface of the aluminum cylinder and secured thereto whereby the said outer surface is protected against oxidation and other chemical attack, the ends of both cylinders being substantially flush.

2. A bobbin for use in connection with the manufacture of artificial silk comprising an inner cylinder of aluminum, an outer cylinder of cardboard completely covering the outer surface of the aluminum cylinder and secured thereto, whereby the said outer surface is protected against oxidation and other chemical attack, the ends of both cylinders being substantially flush and a coating of lacquer on the outer surface of said outer cylinder.

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

HUGO KÜTTNER.

Witnesses:

FRAU LOUIS KÜTTNER,
JULIET JOFFUDEN.