(No Model.)

E. H. KING.

COP OR BOBBIN.

No. 458,369. Patented Aug. 25, 1891.

Fig. 1.

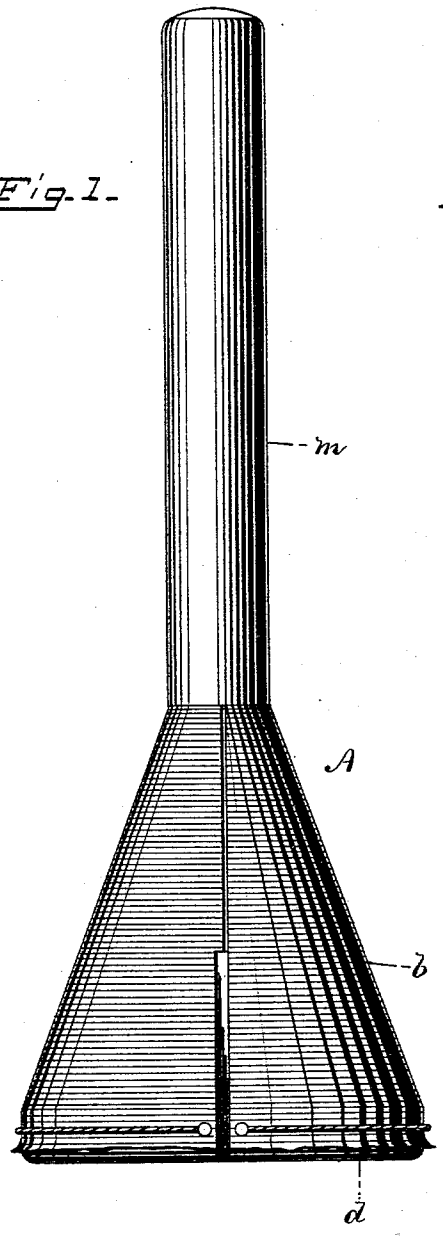
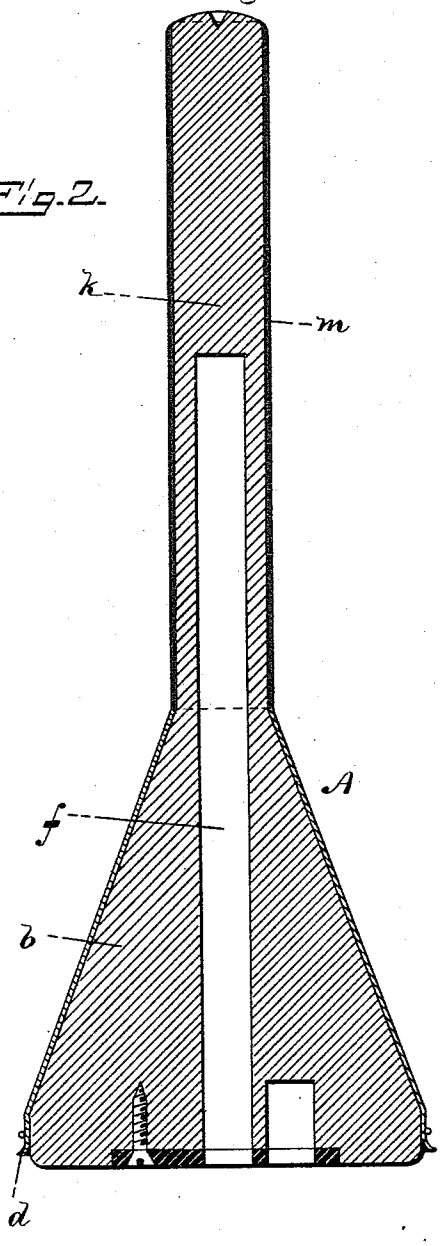


Fig. 2.



WITNESSES:
Baydeen W Spencer
M. Durfee

INVENTOR:
Edward H. King,
PER C. A. Shaw & Co.
ATTYS.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

EDWARD H. KING, OF CLAREMONT, NEW HAMPSHIRE.

COP OR BOBBIN.

SPECIFICATION forming part of Letters Patent No. 458,369, dated August 25, 1891.

Application filed February 16, 1891. Serial No. 381,608. (No model.)

To all whom it may concern:

Be it known that I, EDWARD H. KING, of Claremont, in the county of Sullivan, State of New Hampshire, have invented certain new and useful Improvements in Cops or Bobbins, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side elevation of my improved bobbin; Fig. 2, a vertical transverse section of the same.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

My invention relates especially to a single-head bobbin or cop; and it consists in certain novel features, hereinafter fully set forth and claimed, the object being to produce a more effective article of this character than is now in ordinary use.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following explanation.

In the drawings, A represents the cop considered as a whole, said cop being of the ordinary form and construction. Its head *b* is provided with a covering of corduroy *d* or similar material. The cop is provided with the usual spindle-opening *f*. On the neck *k* a metallic tube *m* is driven, or metal may be spun thereon by any suitable means. This metallic casing prevents the wood of said neck from becoming rough and splintering, and diminishes the friction of the yarn as it is unwound from the cop, thereby preventing many imperfections in the fabric, especially when employed in knitting-machines to which the device is more particularly applicable.

Having thus explained my invention, what I claim is—

A cop consisting of a conical head provided with a corduroy covering and a cylindrical neck provided with a metallic facing, the upper edge of the covering meeting the lower edge of the facing at the junction of the head and neck, substantially as described.

EDWARD H. KING.

Witnesses:
MILTON P. BAILEY,
HORACE G. CASE.