

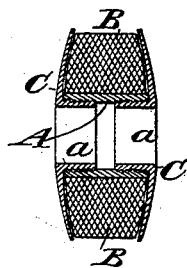
(No Model.)

C. E. WILKINSON.  
BOBBIN FOR SEWING MACHINES.

No. 493,417.

Patented Mar. 14, 1893.

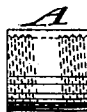
*Fig. 1.*



*Fig. 3.*



*Fig. 2.*



*Fig. 4.*



*Witnesses:*

*O. Sundgren*

*F. George Barry.*

*Inventor:*

*Charles E. Wilkinson.*

*by his attorneys*

*Frederick Lewis*

# UNITED STATES PATENT OFFICE.

CHARLES E. WILKINSON, OF WESTVILLE, CONNECTICUT.

## BOBBIN FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 493,417, dated March 14, 1893.

Application filed June 11, 1890. Serial No. 355,023. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES E. WILKINSON, of Westville, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Bobbins for Sewing-Machines, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to those bobbins which are composed of thread wound upon a tube and metal heads which are applied to opposite ends of the tube and on opposite sides of the thread.

I will proceed first to describe the construction of my invention and afterward point out its novelty in the claim.

In the accompanying drawings Figure 1 is an axial section of a bobbin embodying my invention having the heads applied ready for use. Fig. 2 is an external longitudinal view of the tube for the reception of the thread. Figs. 3 and 4 are side views of the removable metal heads.

Similar letters of reference designate corresponding parts in all the figures.

A designates the tube and B the thread thereon.

C C are the two heads provided with concentric necks *a* which project from their inner faces. These necks are hollow and open at their inner and outer ends, the latter being open to the exteriors of the heads. The said necks *a* are screw-threaded externally, and screwed into the tube A.

The body A may be made of paper or of other material of similar nature which is soft or yielding enough to permit the externally screw-threaded necks *a* to be screwed into it

and so made to produce in it the necessary corresponding internal threads.

The tube A is intended to have the thread B wound upon it before the heads are applied. This winding may be done by any suitable method or machine for winding thread upon tubes.

The bobbin completed as shown in Fig. 1 may be applied in the shuttle of a sewing machine either with or without a central spindle. If the shuttle have a central spindle, the interiors of the necks may be of such caliber as to fit the said spindle easily.

The heads C C are intended to be preserved for repeated use, but the tube may be discarded after the thread upon it has been used and a new tube wound with thread but having no screw threads in it, may have the old heads screwed into it as hereinbefore described.

What I claim as my invention, and desire to secure by Letters Patent, is—

A sewing machine bobbin consisting of a tube wound with thread in combination with two removable metal heads separate from and independent of each other and provided with externally screw-threaded necks screwing into opposite ends of said tube, the said tube being of material softer or more yielding than the said heads and necks to permit the screw-threaded necks to form corresponding screw-threads in the interior of said tube; substantially as and for the purpose herein set forth.

CHAS. E. WILKINSON.

Witnesses:

C. A. MARVIN,  
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