

(No Model.)

F. C. KENNEDY & H. A. WILBUR.
YARN TUBE.

No. 534,960.

Patented Feb. 26, 1895.

Fig. 1.

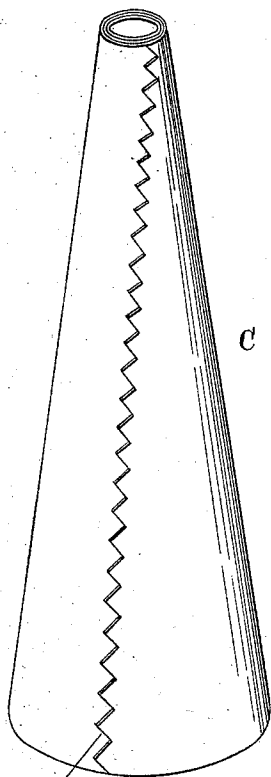
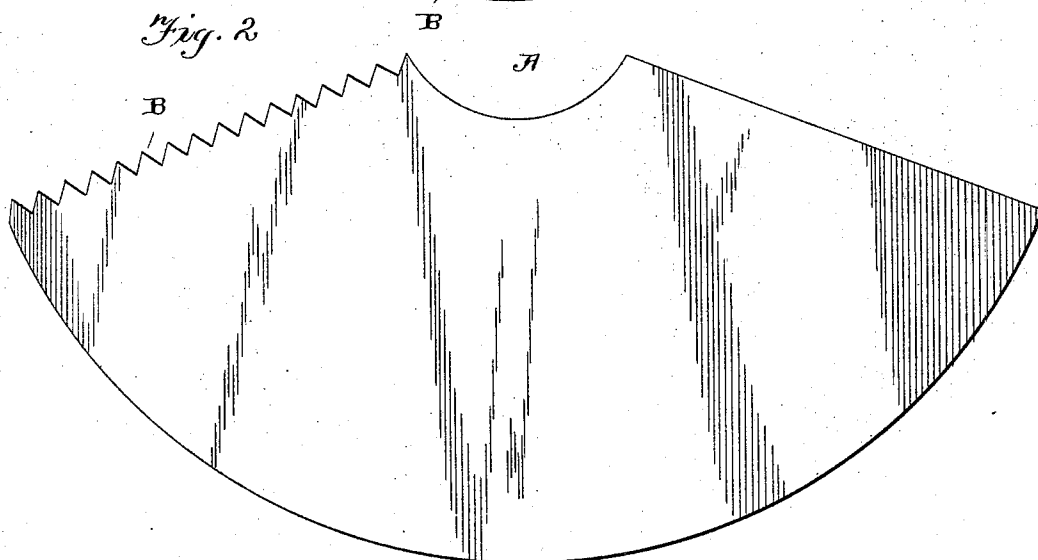


Fig. 2.



WITNESSES.
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UNITED STATES PATENT OFFICE.

FREDERICK C. KENNEDY, OF BURLINGTON, VERMONT, AND HENRY A. WILBUR, OF WEST SOMERVILLE, MASSACHUSETTS.

YARN-TUBE.

SPECIFICATION forming part of Letters Patent No. 534,960, dated February 26, 1895.

Application filed December 30, 1893. Serial No. 495,174. (No model.)

To all whom it may concern:

Be it known that we, FREDERICK C. KENNEDY, residing at Burlington, in the county of Chittenden and State of Vermont, and
5 HENRY A. WILBUR, residing at West Somerville, in the county of Middlesex and State of Massachusetts, citizens of the United States, have invented certain new and useful Improvements in Yarn-Tubes; and we do hereby
10 declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to an improved yarn
15 tube; and it consists in the novel manner of constructing the same hereinafter fully described, and further in so constructing the exterior of the tube as to prevent the yarn from slipping.

20 The object of our invention is to provide a winding tube of superior strength and durability which will hold yarn properly positioned whether during transportation or while being manufactured into textile fabrics, and
25 these ends are attained by constructing a very substantial tube and by indenting or serrating a strip or edge on its exterior for engagement with the yarn.

Referring to the accompanying drawings,
30 Figure 1 is a perspective view of our improved tube. Fig. 2 is a view of the blank from which the same is formed.

A designates a blank of paper, sheet metal or any substantial fibrous material, which is
35 formed with a notched or serrated edge B. The blank is preferably of sufficient size to form a completed tube C of four or more laps

which may be secured together with an adhesive or in any other suitable manner. By forming a tube in this way with a plurality
40 of laps a maximum amount of strength and firmness is secured.

The tube is so rolled or formed as to bring its serrated edge B upon the exterior as shown, and by this means a securing strip is provided which extends the whole length of the
45 tube, so that as yarn is wound thereon over the serrations it will attain a secure hold on the tube and thus prevent any possibility of slipping, an objection commonly met with in
50 yarn tubes and especially in those of conical form.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

55 A cop tube composed of a strip of material wound upon itself, one edge of said strip extending longitudinally from end to end of the exterior of the tube and provided with closely arranged projecting teeth or serrations
60 adapted to catch and hold the yarn from longitudinal movement on the tube, substantially as described.

In testimony whereof we do affix our signatures in presence of witnesses.

FREDERICK C. KENNEDY.
HENRY A. WILBUR.

Witnesses to signature of F. C. Kennedy:

GILBERT A. DOW,
CHARLES E. ALLEN.

Witnesses to signature of H. A. Wilbur:

LOUIS E. WANGER,
ALBERT E. P. MARTYN.