

(No Model.)

J. W. WEST.

THREAD DELIVERING ATTACHMENT FOR SEWING MACHINES.

No. 371,998.

Patented Oct. 25, 1887.

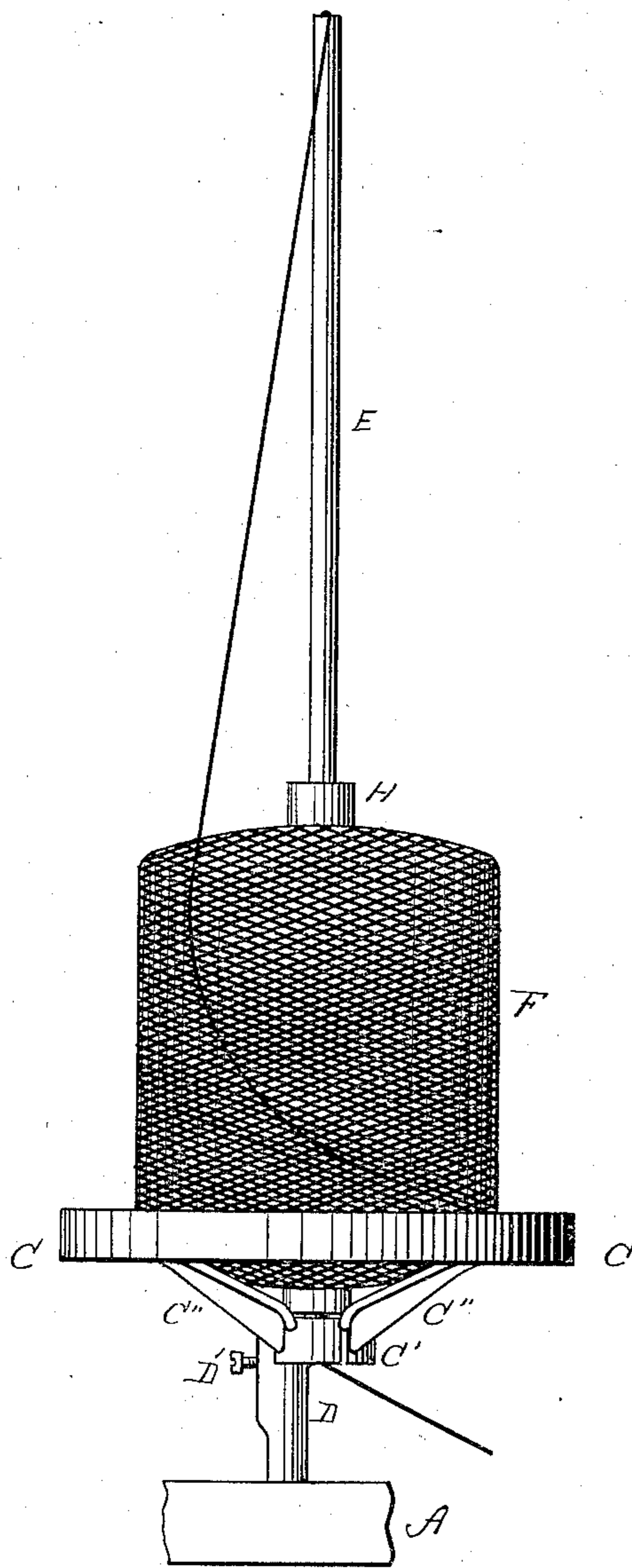


Fig. 1.

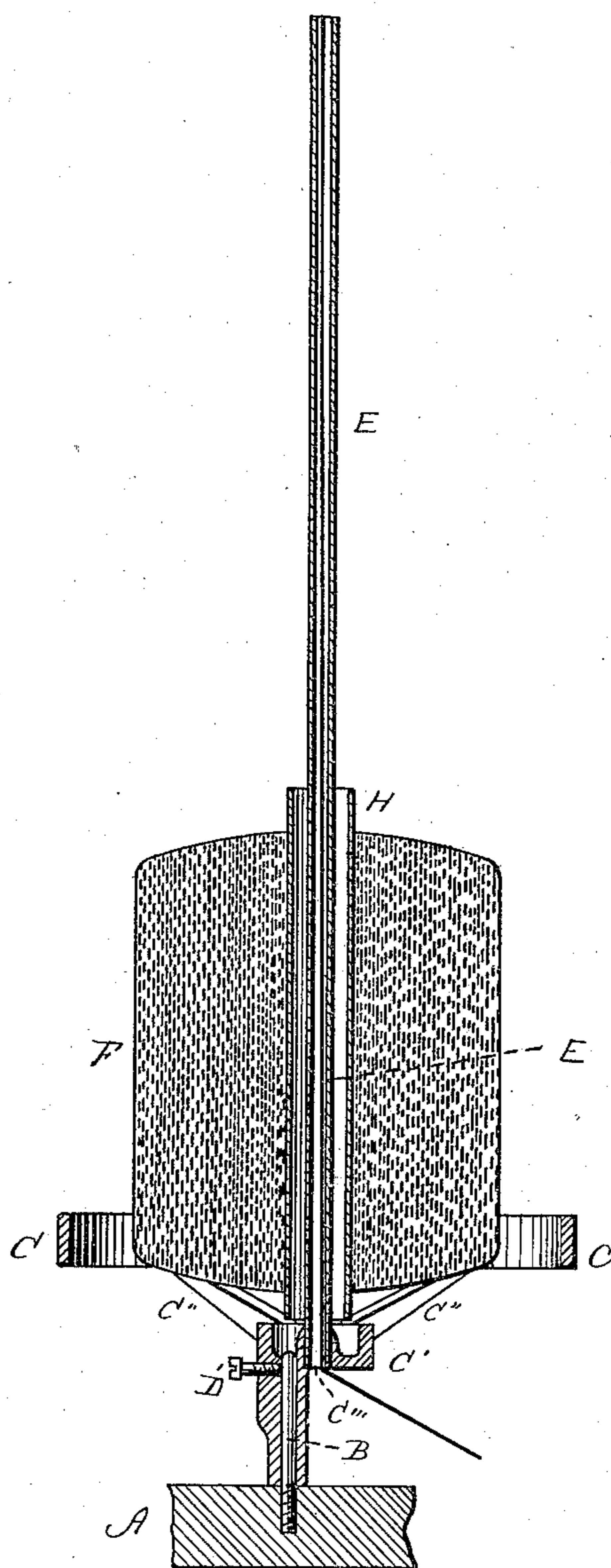


Fig. 2.

WITNESSES.

J. M. Hartnett,  
J. M. Brown

INVENTOR.

John W. West,  
By his Atty.

Henry Williams

# UNITED STATES PATENT OFFICE.

JOHN W. WEST, OF BRAINTREE, MASSACHUSETTS.

## THREAD-DELIVERING ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 371,998, dated October 25, 1887.

Application filed May 4, 1887. Serial No. 237,047. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN W. WEST, of Braintree, in the county of Norfolk and State of Massachusetts, have invented a new and Improved Device for Delivering Yarn, Twine, or Thread from Tubes, Quills, or Balls, of which the following is a specification.

This invention is particularly adapted for the delivery of thread from a quill to a sewing-machine.

In the accompanying drawings, in which similar letters of reference indicate like parts, Figure 1 is an elevation of my device. Fig. 2 is a vertical section of the same.

A represents a portion of an ordinary sewing-machine, and B is an ordinary vertical pin or post secured to said portion.

C is a ring, preferably metallic, C' a hub dropped below said ring, and C'' C''' are spokes extending from said hub upward to the ring, and all constituting a circular frame for the support of the thread.

D is a tubular standard adapted to slip over the post B and to be secured thereto by the set-screw D'.

E is a tall tube extending upward from the hub C', which is perforated at C''' to receive it.

F represents a ball of thread, yarn, or twine wound upon the quill H. The quill is slipped over upon the tube E and the ball rests upon the portion C'' of the frame and within the ring or rim C. The thread is passed from the ball to the upper end of the tube E, down through it, and out from the perforation C''' in the hub C' to the sewing-machine, as shown. By carrying the thread from the ball to the

top of the tube E and down through it, it is delivered without revolving the tube or quill H, which contains so large a quantity of thread that if it were revolved in delivering it the thread would be apt to break. By means of my device, therefore, the thread is delivered without unnecessary tension from a stationary quill.

The ring C, hub C', and spokes C'' produce practically a concave base for the ball of thread. The end of this ball resting upon the spokes or base is convex in shape, and as the thread is delivered from its outside it gradually diminishes in diameter and settles down into the concavity formed by the spokes, delivering the thread without the aid of a traveler or flier.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

The hereinbefore-described improved device for delivering yarn or thread from tubes, quills, or balls, consisting, essentially, of the ring or rim C, depressed perforated hub C', and spokes C'', the whole constituting a concavity for the reception of the convex end of the ball, the vertical tube E, set into the perforation in said hub and extending to a considerable height above the ball, and the tubular standard D, extending downward from said hub, the yarn or thread delivering directly from the outside of the ball to said tube E, substantially as and for the purpose set forth.

JOHN W. WEST.

Witnesses:

HENRY W. WILLIAMS,  
J. M. HARTNETT.