

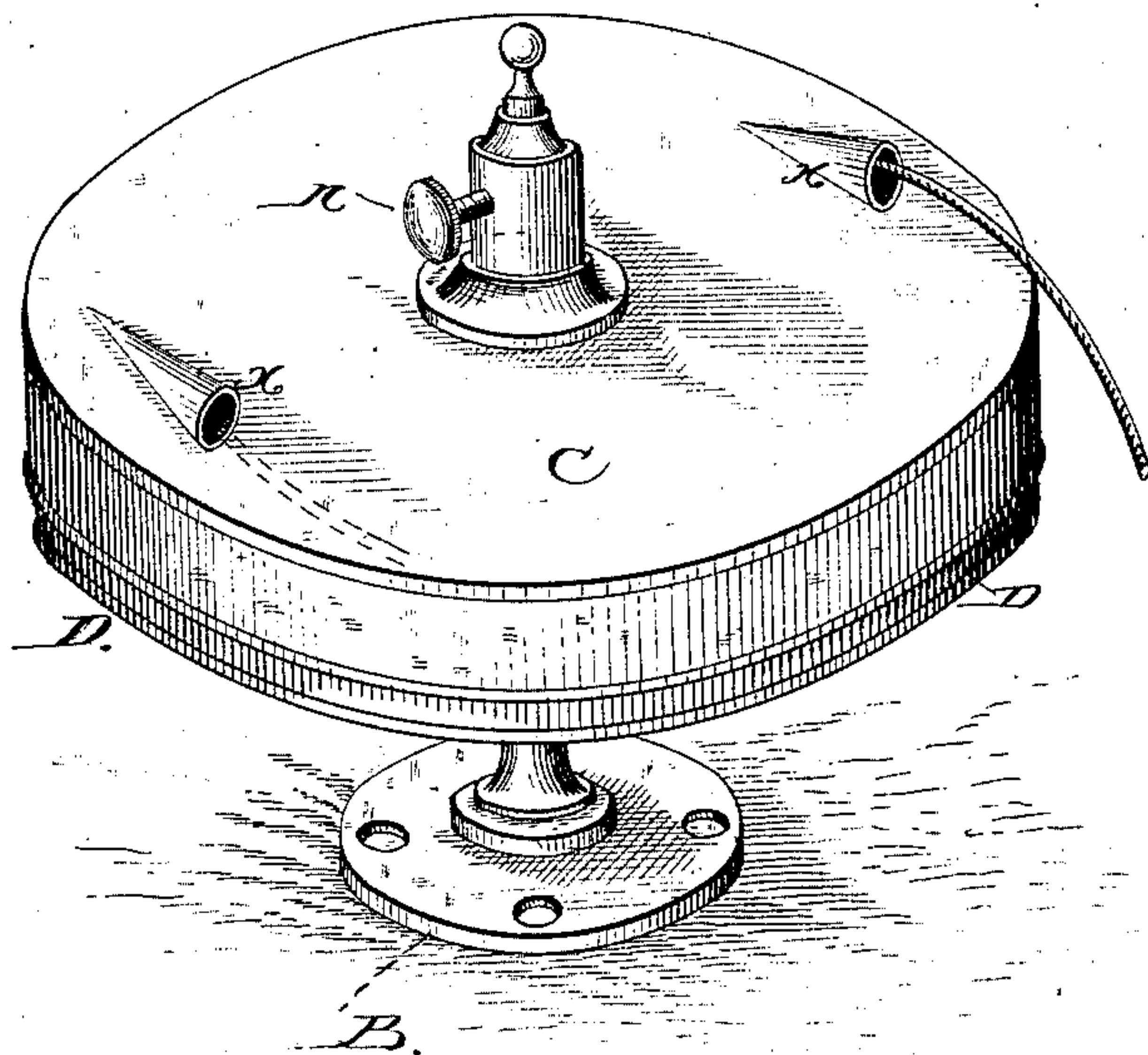
(Model.)

W. F. BEARDSLEE.  
Wire Reel for Sewing Machines.

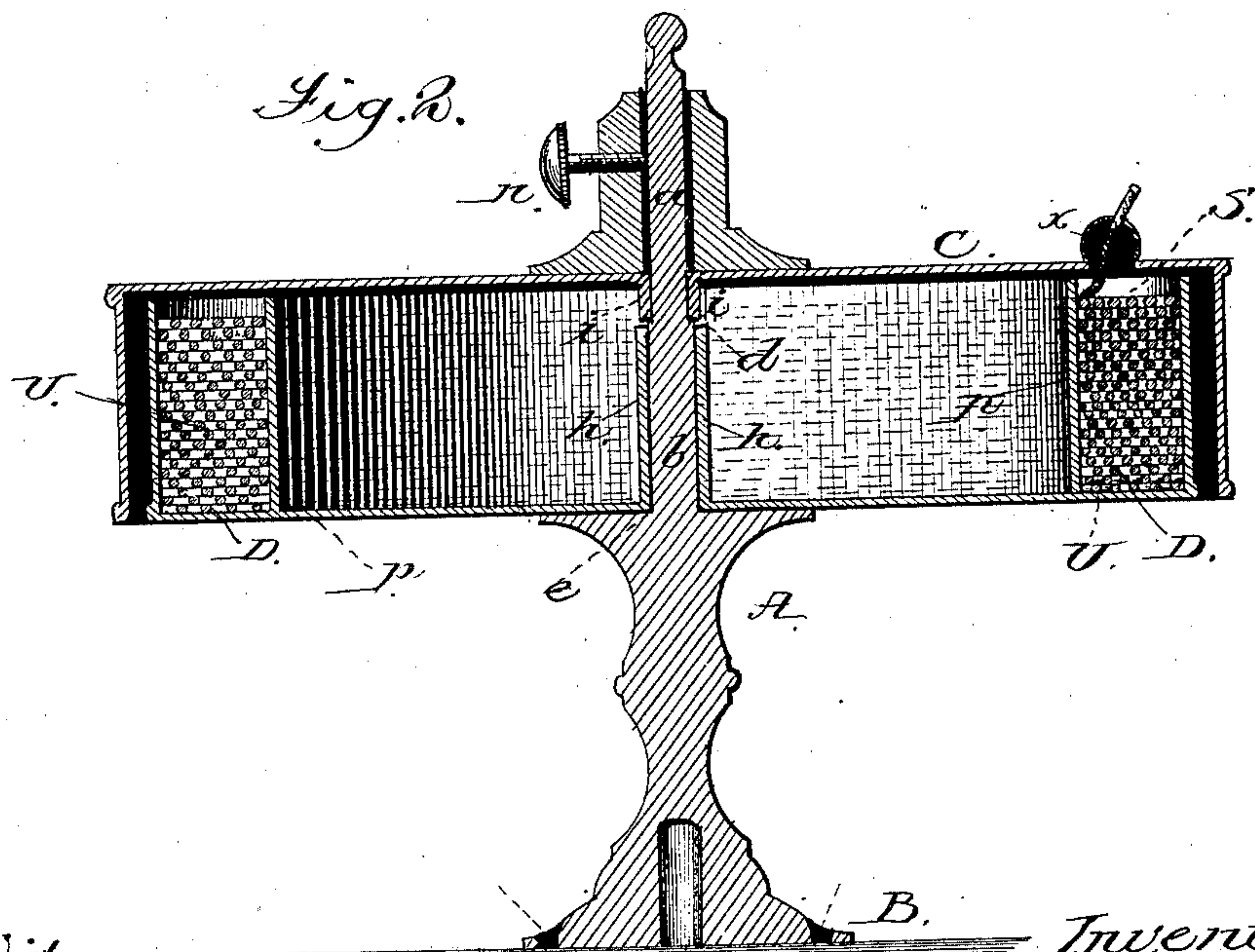
No. 232,168.

Patented Sept. 14, 1880.

*Fig. 1.*



*Fig. 2.*



Witnesses;

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# UNITED STATES PATENT OFFICE.

WILLIAM F. BEARDSLEE, OF BOSTON, MASSACHUSETTS.

## WIRE-REEL FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 232,168, dated September 14, 1880.

Application filed January 10, 1880.

*To all whom it may concern:*

Be it known that I, WILLIAM F. BEARDSLEE, of Boston, Commonwealth of Massachusetts, have invented a new and Improved Wire-Reel for Sewing-Machines; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, and in which—

Figure 1 is a perspective view of the reel. Fig. 2 is a vertical sectional view.

My invention relates to a device for holding covered wire to be fed to sewing-machines for the purpose of wiring hats, bonnets, and other fabrics.

The object of my invention is to provide a device or holder which will freely allow the feed of the stiff unmanageable wire known as "bonnet-wire" to the stitching mechanism of a sewing-machine, where it is to be stitched through the covering to hats, bonnets, or other fabrics, and avoid as far as possible friction in the feed and an interference in the unwinding of the wire by the dress or person of the sewing-machine operator; and my invention consists in a wire-receiving box mounted on a central spindle, on which it freely revolves, combined with a fixed telescoping cover provided with an opening or openings for the exit of the wire, all of which will be hereinafter more fully described and claimed.

In order that those skilled in the art may make and use my invention, I will proceed to describe the exact manner in which I have carried it out.

In the said drawings, A is a spindle provided with a proper base, B, for its attachment to the sewing-machine table or other desired place.

The portion of the spindle forming bearings for the reel is of two diameters, as seen at *a* and *b*. This construction forms two shoulders, *d* *e*.

The portion of the reel to receive the wire consists of a shallow cylindrical box, D, provided with a circular partition, *p*, forming a chamber for the reception of the coil of wire U.

In the center of box D is an elongated hub, *h*, of such a diameter as to snugly fit the por-

tion *b* of the spindle. Said hub *h* rests on shoulder *e*, and freely revolves as the wire is drawn toward the sewing mechanism of the machine.

The wire in a reel, so far as described, would ride out of space S, and the dress or person of the operator might interfere with and check the reel. To prevent this I provide the wire-box with a telescoping fixed cover, C, which slides over the outside of said wire-box, but does not touch it, the top or disk of the cover approaching the edges of the wire-box sufficiently close to prevent the wire from slipping out of space S, and yet not sufficiently close to have any contact.

The center of cover C is provided with an elongated hub, *i*, which fits over the portion *a* of the spindle, and rests on shoulder *d*. A portion of hub *i* projects above cover C, and is provided with a set-screw, *n*, to clamp said cover to the spindle.

In the top of cover C, above space S of the wire-box, is an opening through a boss or thimble, *x*, arranged tangentially to the coil of wire, which serves as a means of exit for the wire from the wire-box, and through which the wire plays out as it is used.

Any desired number of the wire-exit openings might be made, and as the bonnet-wire comes from the manufacturers wound either from left to right, or vice versa, it is desirable to have the thimbles opening in opposite directions, as illustrated in Fig. 1.

It will be seen that the wire will freely run from the housing or box D, which rotates readily, while the fixed cover C prevents any interruption of its rotation from accidental causes.

The reel may be located at any desired point for convenience, so that no friction is produced on the wire, either upon the table of the machine or a projecting piece or ledge.

It is evident that the cover can be mounted on a standard separate and distinct from the spindle A without departing from the spirit of my invention.

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

1. The rotary wire-box provided with the partition *p*, in combination with a fixed cover, C, provided with a wire-exit opening, *x*, substantially as set forth.

5 2. The spindle A, provided with shoulders *d e*, and a revolving wire-carrier box, D, provided with hub *h*, in combination with the fixed cover C, provided with hub *i*, set-screw *n*, and wire-opening *x*, all constructed and arranged substantially as and for the purpose set forth.

WILLIAM F. BEARDSLEE.

Attest:

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