H. C. SPRINGSTEAD.

YARN STRIPPER.

APPLICATION FILED DEC. 13, 1920.

1,403,354. Patented Jan. 10, 1922.

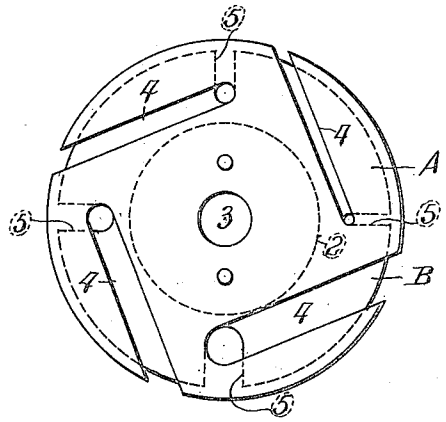


Fig. 1

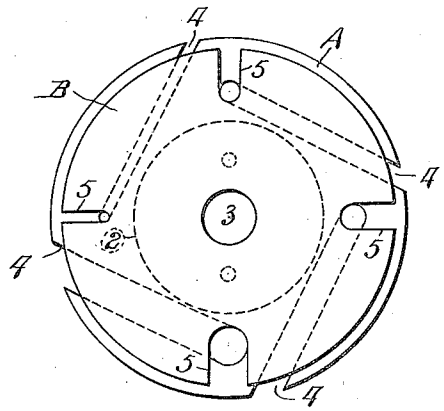


Fig. 2.
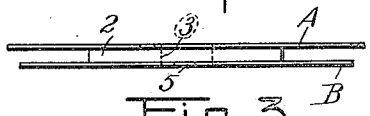


Fig. 3.

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YARN STRIPPER.

1,403,354. Specification of Letters Patent. Patented Jan. 10, 1922.

Application filed December 13, 1920. Serial No. 430,378.

To all whom it may concern:

Be it known that I, HARMON C. SPRINGSTEAD, a subject of the King of Great Britain, residing at Hamilton, in the county of Wentworth and Province of Ontario, Canada, have invented certain new and useful Improvements in Yarn Strippers, of which the following is a specification.

My invention relates to improvements in yarn strippers which are positioned intermediate of the bobbins and the cops of a winder, and utilized for cleaning the yarn as it is drawn from the bobbin.

The object of the invention is to provide a stripper wherein provision is made to facilitate threading the yarn and to make provision for threading various gauge yarns in the same stripper.

This, together with other objects, may be obtained by the construction, combination and arrangement of the parts as will be hereinafter more fully described, illustrated in the accompanying drawing and pointed out in the claims hereunto appended.

With reference to the accompanying drawing, Figure 1 being an enlarged face view, Figure 2 a reverse view and Figure 3 a side view A and B are parallel discs concentrically secured with an intervening space between, by a separating bushing or collar 2, forming a rigid body having a center hole 3, to admit means for securing the said body to a rigid member of the winder.

The disc B, which is slightly smaller in diameter than the disc A, is provided with a plurality of radial slots 5 of various widths to accommodate different gauge yarns, said slots having rounded innermost ends.

The disc A is provided with a plurality of chordal grooves 4 terminating with rounded ends respectively at the termination of the respective slots 5 in the disc B, constituting the equivalent of round holes through the aforesaid discs.

To thread the device the yarn is placed in a slot 4 as far as the edge of the disc B will permit. It is then bent and carried between the two discs A, B to the termination of the said slot, where it is straightened out by passing along the respective slot 5 to the termination thereof.

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

1. In a device of the class described, a pair of spaced discs concentric and rigid each with the other, said discs having a plurality of slots extending inwardly from their circumferences, the slots in one of the discs being disposed at different angles in relation to the slots in the other disc, each slot in one disc meeting and ending at a point in register with the terminus of a slot in the other disc cooperating therewith in forming the equivalent of round passages through both discs.

2. In a device of the class described, a first disc, a second disc concentric and rigid with the first disc and spaced therefrom, said second disc being smaller in diameter than the first, said discs having a plurality of slots extending inwardly from their circumferences, the slots in one of the discs being disposed at different angles in relation to the slots in the other disc terminating at a point in register with the terminus of a slot in the other disc cooperating therewith in forming the equivalent of round passages through both discs.

3. In a device of the class described, a pair of rigidly connected concentric discs, one said disc being smaller in diameter than the other and having a plurality of radially disposed slots extending inwardly from the circumference, the larger disc having a plurality of chordal slots extending inwardly from the circumference, each slot in one disc terminating at a point in register with the terminus of a slot in the other disc cooperating therewith in forming the equivalent of round passages through both discs.

In testimony whereof I have affixed my signature.

HARMON C. SPRINGSTEAD.

Witness:

H. G. HENDRY.