

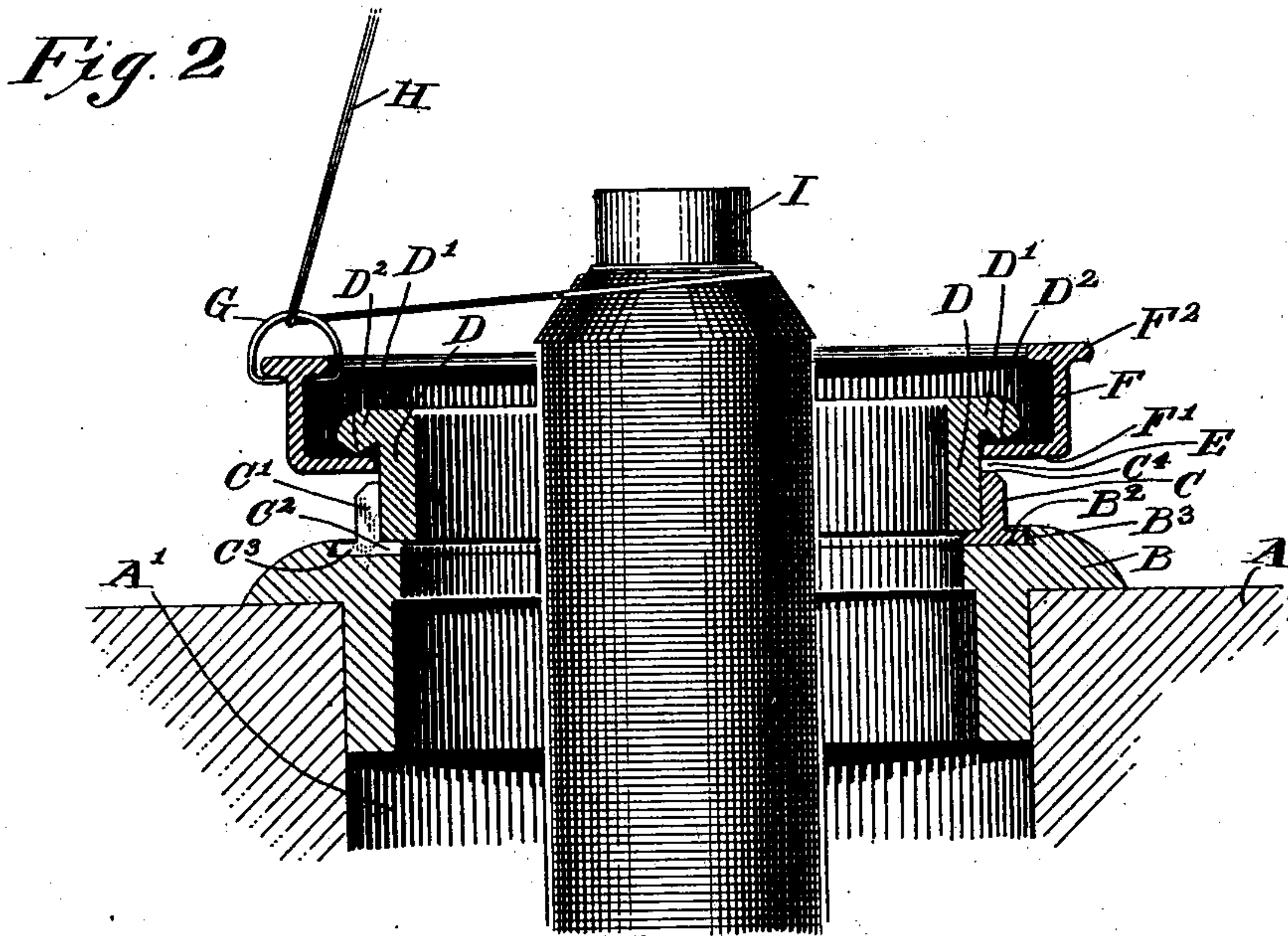
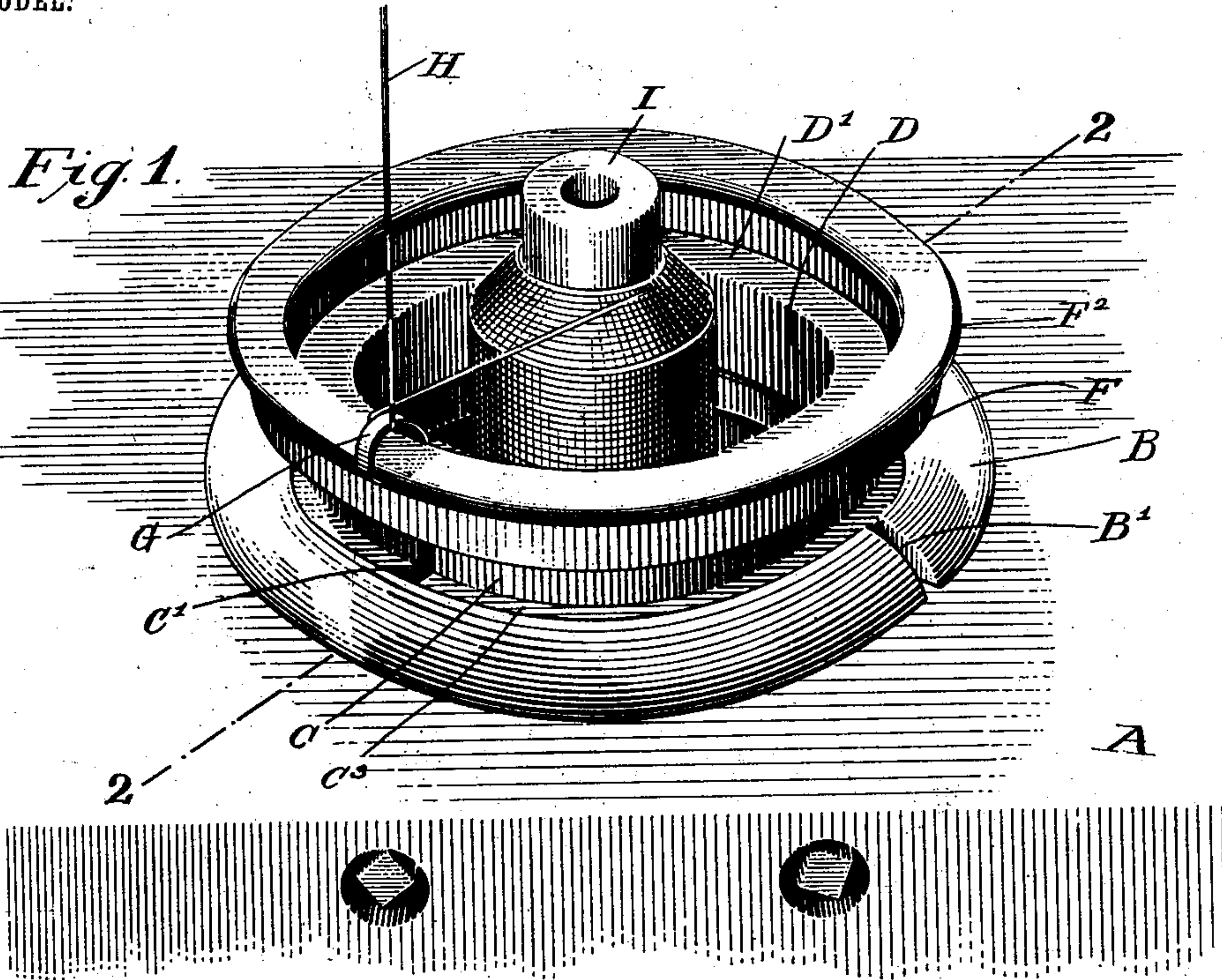
No. 749,189.

PATENTED JAN. 12, 1904.

D. HARRINGTON.  
SPINNING RING.

APPLICATION FILED APR. 7, 1902.

NO MODEL.



Witnesses

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# UNITED STATES PATENT OFFICE.

DAVID HARRINGTON, OF WORCESTER, MASSACHUSETTS.

## SPINNING-RING.

SPECIFICATION forming part of Letters Patent No. 749,189, dated January 12, 1904.

Application filed April 7, 1902. Serial No. 101,643. (No model.)

*To all whom it may concern:*

Be it known that I, DAVID HARRINGTON, a citizen of the United States, residing at Worcester, in the county of Worcester and Commonwealth of Massachusetts, have invented a new and useful Improvement in Spinning-Rings, of which the following is a specification, accompanied by drawings forming a part of the same, in which—

Figure 1 is a perspective view of a spinning-ring embodying my invention and shown as mounted upon the rail of a spinning-frame; and Fig. 2 is a vertical sectional view on line 2 2, Fig. 1.

Similar reference-letters refer to similar parts in both views.

The object of my present invention is to produce a spinning-ring capable of a much-increased speed over those now in common use and by which the friction and incidental wear is lessened, and I accomplish these results by means of the construction and arrangement of parts, as hereinafter described, and pointed out in the annexed claim.

Referring to the accompanying drawings, A denotes the rail of a spinning-frame provided with a circular hole or opening A' to receive an elastic holder B, cut apart upon one side, as shown at B', Fig. 1, and provided on its upper face with a recess B<sup>2</sup> and having an undercut shoulder B<sup>3</sup>. Held within the recessed face of the holder B is a compressible collar C, which is cut apart upon one side, as shown at C', Fig. 1, the lower end of said collar C being provided with an interior flange C<sup>2</sup> and an exterior flange C<sup>3</sup>, the exterior flange being engaged by the undercut shoulder B<sup>3</sup> of the holder B and the interior flange C<sup>2</sup> forming a step for a wooden ring D, which is provided at its upper edge with an exterior flange D', having on its under surface a rib D<sup>2</sup>, preferably triangular in cross-section. The ring D is of sufficient height when held in the collar C to form an exterior groove or space E between the rib D<sup>2</sup> and the upper edge C<sup>4</sup> of the collar C to receive the flange F' of the spinning-ring F. The spinning-ring F is provided at its upper edge with a flanged track F<sup>2</sup> to receive a traveler G of the ordinary form, and the track F<sup>2</sup> is sufficiently high above the upper edge of the ring

D to allow the traveler to be carried around the track F by the pull of the yarn strand H as it is wound upon the rotating bobbin I. The lower flange F' of the ring is of sufficient width to cause the body of the spinning-ring F to clear the flange D', so that the ring F may rotate freely around the ring D.

The compressible collar C is placed in the recessed face B' of the holder B, and the wooden ring D is then inserted through the hole in the flange F' of the spinning-ring F and placed in position within the compressible collar. The holder B is inserted in the rib A' of the rail and is compressed in the usual way by means of set-screws, (shown at J J, Fig. 1,) which causes the collar C to be securely held in the recessed face of the holder and also compresses the collar C sufficient to clamp the wooden ring D in position. As the yarn strand is wound upon the revolving bobbin I the traveler G will be carried around the flanged track F<sup>2</sup> until the friction between the traveler and the ring F becomes great enough to cause the ring F to rotate in the groove E. Only a slight strain upon the yarn is required to move the traveler G; but as the friction is increased between the traveler and the ring F the ring is gradually set in motion and rotates freely around the ring D.

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

The combination with the rail of a spinning-frame, of a holder, a compressible collar cut apart upon one side and held in said holder and provided with an interior flange forming a step for a stationary ring, a stationary ring held in said compressible collar and provided at its upper edge with an exterior flange forming an exterior groove or track between said flange and the upper edge of said compressible collar, a rotating ring provided at its lower edge with an interior flange entering said annular groove or track and having at its upper edge a flanged track for a traveler, and a traveler adapted to run on said flanged track, substantially as described.

Dated this 3d day of April, 1902.

DAVID HARRINGTON.

Witnesses:

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