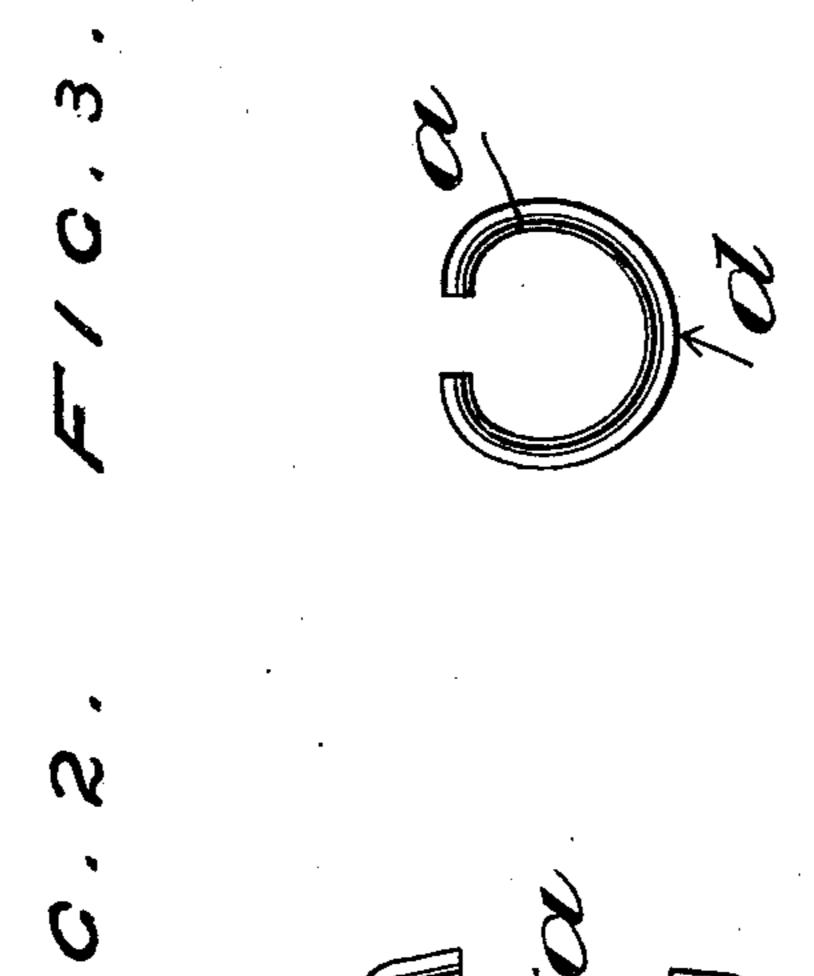
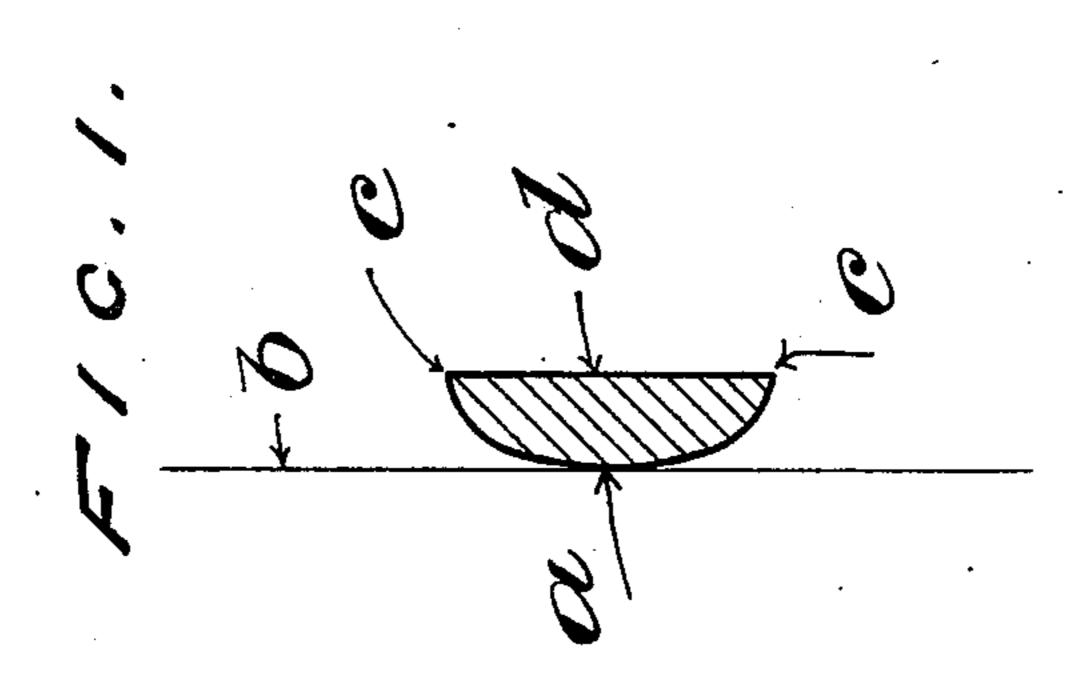
H. TETLOW.

TRAVELER FOR RINGS OF RING SPINNING AND DOUBLING FRAMES.

(Application filed June 5, 1899.)

(No Model.)





INVENTOR.

Henry Tetlow.

By his Attorneys Richards

WITNESSES.

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

United States Patent Office.

HENRY TETLOW, OF MANCHESTER, ENGLAND.

TRAVELER FOR RINGS OF RING-SPINNING AND DOUBLING FRAMES.

SPECIFICATION forming part of Letters Patent No. 631,342, dated August 22, 1899.

Application filed June 5, 1899. Serial No. 719,404. (No model.)

To all whom it may concern:

Be it known that I, Henry Tetlow, heald and wire manufacturer, a subject of the Queen of Great Britain and Ireland, residing at Varley street, Miles Platting, Manchester, in the county of Lancaster, England, have invented a certain new and useful Improvement in the Construction of Travelers for the Rings of Ring-Spinning and Doubling Frames, (for which I have made application in Great Britain, No. 4,171, dated February 25, 1899,) of which the following is a specification.

My said invention relates to improvements in the construction of ring-travelers used to 15 impart twist to the yarn in ring-spinning and doubling frames, as is well understood. These travelers are usually made from wire bent to a C or similar shape. It has been proposed, in order to obtain elasticity to spring 20 the traveler on the ring and secure strength and ease of running of such travelers, to flatten the wire on two sides, the other two sides being rounded. When the wire is so bent to form the travelers that these rounded edges 25 lie at right angles to the ring, a little less resistance is offered to the atmosphere, while when the reverse disposition of the flat faces takes place and one rounded edge bears against the ring the friction between the ring 30 and traveler is reduced.

My invention has for its object to produce a traveler which shall offer a minimum of resistance to the atmosphere and shall set up a minimum of friction by its contact with the 35 ring and the yarn.

According to my invention I form the traveler from a section of wire having two faces, one perfectly flat and the other rounded or of a suitable convexity. When a traveler formed from wire of such plano-convex section is in use, the rounded or convex face bears against the ring, the flat face lying away from the

same, and a thin edge is presented on either side to the atmosphere.

The accompanying sheet of drawings clearly 45

indicates my invention.

Figure 1 represents the improved section of wire drawn to a greatly enlarged scale. Fig. 2 indicates a traveler of a doubling-machine, also enlarged, made from the improved 50 section of wire. Fig. 3 is a ring-spinning traveler formed from such section.

When a traveler is so constructed, the inner rounded part a sets up little or no friction by its contact with ring represented by the line 55 b, and the feather-edge c, formed by the meeting of the outer flat face d and curved face a, offers very little resistance to the atmosphere and is sensitive to the pull of the yarn, so that a traveler is produced which is in every 60 way most suitable for the purpose. In addition a traveler constructed of wire of the indicated section will be found to be extremely strong transversely, while less breakage of the yarn occurs by reason of the rounded 65 surface a, over which the yarn passes, not being liable to cut the yarn as in cases where the traveler is flattened on both sides.

I declare that what I claim is—

1. A traveler for ring-spinning and dou- 70 bling machinery, having a rounded inner face and a flat outer face substantially as described.

2. A traveler for ring-spinning and doubling machinery having a rounded inner face 75 and a flat outer face, said edges meeting on each side at an acute angle, substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

HENRY TETLOW.

Witnesses:

JOSHUA ENTWISLE, ALERED YATES.