

(No Model.)

S. S. FOWLER.
TRAVELER FOR RING SPINNING FRAMES.

No. 478,256.

Patented July 5, 1892.



Fig. 1.

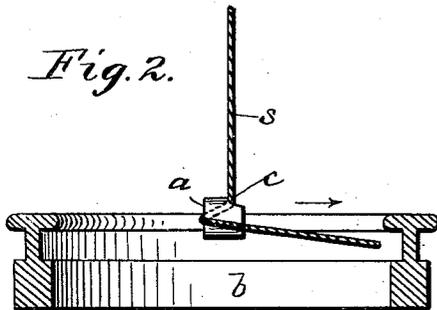


Fig. 2.

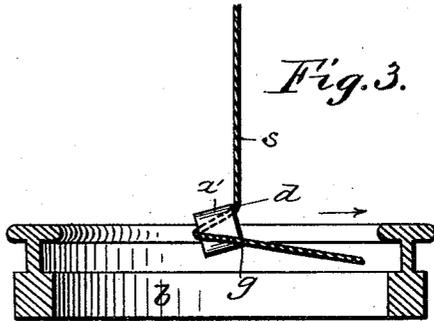


Fig. 3.

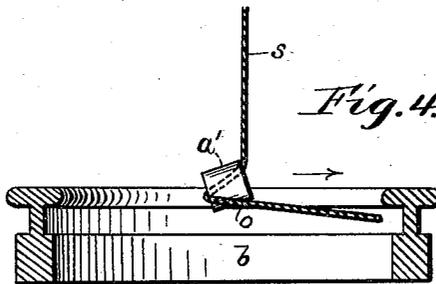


Fig. 4.



Fig. 5.

Witnesses:

Charles Hannigan

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UNITED STATES PATENT OFFICE.

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TRAVELER FOR RING-SPINNING FRAMES.

SPECIFICATION forming part of Letters Patent No. 478,256, dated July 5, 1892.

Application filed March 7, 1892. Serial No. 424,006. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL S. FOWLER, of Elizabeth City, in the county of Pasquotank and State of North Carolina, have invented certain new and useful Improvements in Travelers for Ring-Spinning Frames; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention is an improvement in ring-travelers used on spinning-frames, twist-ers, and like machines. It is intended to remedy defects in travelers as now made and used and give them a level easy position when running to prevent them from wearing unevenly. It will be found fully illustrated in the accompanying drawings.

Figure 1 is an enlarged perspective view of one of the travelers. Fig. 2 shows an elevation of the inside of half a spinning-ring with an improved traveler on it. Fig. 3 is an elevation of a like portion of a spinning-ring with a traveler such as is generally used. Fig. 4 is an elevation of a like portion of a spinning-ring with a traveler of the usual kind, having one-half of its under projection worn away, as shown in Fig. 5. Fig. 5 represents the under side of an ordinary traveler, showing the gap in it caused by wear.

One great difficulty that causes much trouble in the use of the common traveler is the uneven wear on the under side of the traveler, in that part that extends in under the rim of the ring *b* on the inside to hold the traveler down on the ring. The tipping of the traveler, resulting from the strain of the thread *s* on the front edge at *d*, Fig. 3, causes the front corner *g* to take all the wear from the contact with the under side of the rim of the ring. The result of such wear is a gap *a* made in that corner, (see Fig. 5,) and in Fig. 4 the position of the traveler running on the ring after the gap is worn is shown. As the

wearing of this gap proceeds this part of the lip presents a thin sharp edge at an angle to the line of the under side of the rim of the ring, that grows more and more obtuse, and naturally this sharp edge will not slide freely on the ring, but will produce an interrupted hitchy motion, especially if there is the slightest variation in the surface of the under side of the lip of the ring. This unsteady jerking motion as it increases breaks the thread and otherwise injures it. My invention for avoiding this difficulty consists in making a recess *c* in the edge of the top part of the traveler. (See Fig. 1.) This recess *c* is made to extend back nearly to the middle of the bar of the traveler and bring the upward tension of the thread *s*, that draws through it, far enough back from the front edge of the traveler to hold the traveler up with its under lip in level contact with the under side of the rim of the ring *b*, as shown in Fig. 2. Running in this position the wear on the lip of the traveler will be uniform for its whole length and a traveler will run in good condition for a much longer time, though the prevention of the stoppages because of breaking of the thread and avoiding injury to the product are of much more consequence than the saving made in cost of extra travelers.

Having thus described my improvement, I claim as my invention—

As a new article of manufacture, a ring-traveler for spinning and twisting frames constructed substantially as described—that is, consisting of a flat strip of metal having its ends bent down and in to hold it on the ring and a recess made in one edge on its upper side to allow the thread to draw from near the middle of the top of the traveler, as herein set forth.

S. S. FOWLER.

Witnesses:

LUCINDA BRIGHT,
MAE FOWLER.