(No Model.)

A. F. WHITIN.

TRAVELER CLEARER FOR RING SPINNING FRAMES.

No. 412,575. Patented Oct. 8, 1889.

Fig. 1.

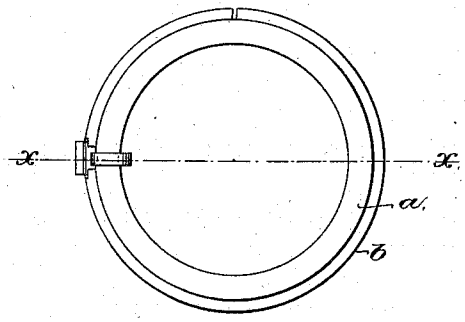


Fig. 8.

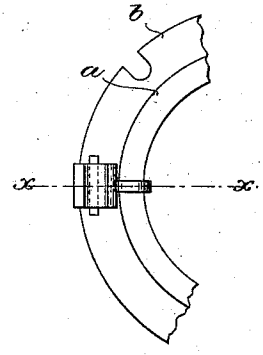


Fig. 3.

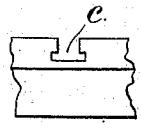


Fig. 2.

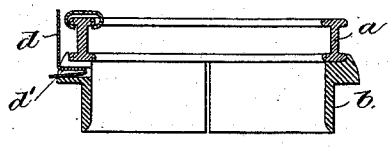


Fig. 9.

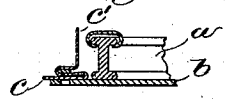


Fig. 4.

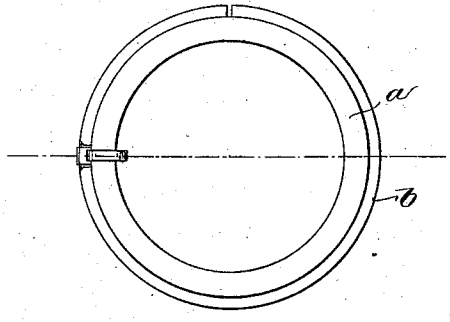


Fig. 10.

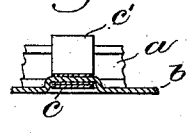


Fig. 7.

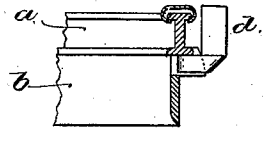


Fig. 6.

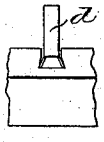


Fig. 5.

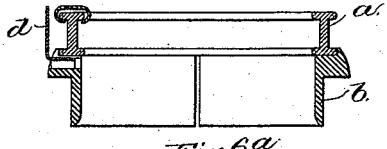


Fig. 7a.

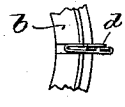


Fig. 6a.



Witnesses.
John F. C. Printkert
Frederick L. Emery.

Inventor:
Arthur F. Whitin,
by Crosby Gregory
Attys

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

ARTHUR F. WHITIN, OF WHITINSVILLE, MASSACHUSETTS, ASSIGNOR TO THE WHITINSVILLE SPINNING RING COMPANY, OF SAME PLACE.

TRAVELER-CLEARER FOR RING-SPINNING FRAMES.

SPECIFICATION forming part of Letters Patent No. 412,575, dated October 8, 1889.

Application filed March 28, 1889. Serial No. 305,118. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR F. WHITIN, of Whitinsville, county of Worcester, State of Massachusetts, have invented an Improvement in Traveler-Clearers for Ring-Spinning Frames, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention has for its object to provide a spinning-ring holder with an improved traveler-clearer.

In accordance with this invention the holder is notched or recessed to receive the clearer, and the clearer, composed of a strip, preferably of spring metal, is bent or formed to present a horizontal base or foot, which enters a notch or recess in the holder, a vertical part of the clearer standing near the ring. The base or foot of the clearer will preferably be made as a spring. The notch or recess in the holder will preferably be of dovetail or equivalent shape to assist in holding the clearer in place.

Figure 1 shows in plan view a spinning-ring, its holder, and clearer, embodying this invention; Fig. 2, a cross-section of the ring, holder, and clearer shown in Fig. 1, taken on the dotted line *x x;* Fig. 3, a detail to be referred to; Fig. 4, a plan view of the spinning-ring and modified form of holder and clearer; Fig. 5, a cross-section of the ring, holder, and clearer shown in Fig. 4; Fig. 6, a detail to be referred to. Fig. 6ª shows the clearer of Fig. 4 in perspective; Figs. 7 and 7ª, details of a modification to be referred to; and Figs. 8 to 10, inclusive, yet another modification.

The spinning-frame *a* and its holder *b* are of usual construction. The holder *b* has at its upper edge a notch or recess *c*. The notch or recess shown in Figs. 1 to 3 is represented as of dovetail shape in cross-section.

The traveler-clearer is represented as a strip of metal bent or formed to present a vertical arm or part *d* and a base or foot *d'*. The base or foot *d'* in Figs. 1 and 2 is formed by folding the strip upon itself to present a spring-tongue adapted to enter the widest part of the notch or recess *c*, the two sides of the tongue, by their spring action, serving to hold the clearer in place. The spring-tongue enables the clearer to be adjusted toward and from the usual traveler, which is to be employed on the ring.

In Figs. 4 to 6 the notch or recess formed in the holder is of dovetail shape, and the horizontal part of the clearer has two diverging spring-acting projections, (see Fig. 6ª,) which enter the said dovetailed notch or recess. In Fig. 7, in lieu of a notch, as above described, a slit is formed in the holder, and the clearer has a vertical part, as *d*, and a horizontal spring-tongue similar to that shown in Figs. 1, 2, and 3, but arranged edgewise vertically, the opposite diverging spring-acting parts of said tongue serving to hold the clearer in position. In Figs. 8 to 10 the notch or recess is shown as made in a holder of the plate form, and the loop-like spring base or foot is inserted in the said notch or recess.

I claim—

A spinning-ring holder having a notch or recess, and a traveler-clearer composed of a strip of metal bent to form a spring-foot and held in position in said notch or recess, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ARTHUR F. WHITIN.

Witnesses:
A. S. NOYES,
WILLIAM H. WHITIN.