(No Model.)

A. F. WHITIN.

TRAVELER CLEARER FOR RING SPINNING FRAMES.

No. 412,576. Patented Oct. 8, 1889.

Fig. 1.

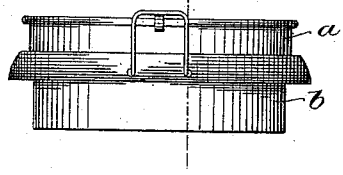


Fig. 7.

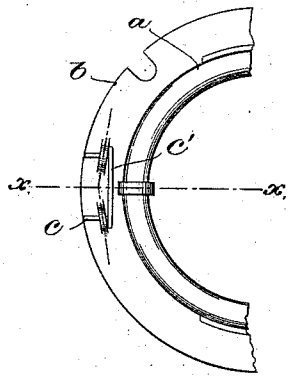


Fig. 2.

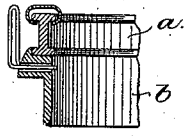


Fig. 3.



Fig. 4.

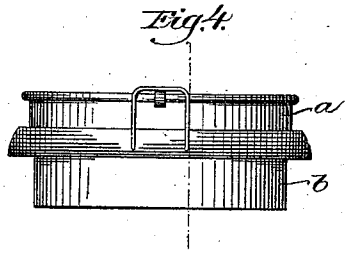


Fig. 8.

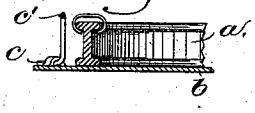


Fig. 9.

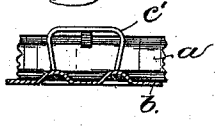


Fig. 5.

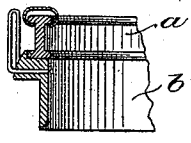


Fig. 6.



Witnesses
John F. C. Prentiss
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. 412,576, dated October 8, 1889.

Application filed March 28, 1889. Serial No. 305,119. (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 a traveler-clearer which may be cheaply made and be very efficient.

The traveler-clearer herein shown as embodying my invention consists of a piece of wire bent or formed to constitute a vertical portion and a substantially-horizontal base or foot portion for attaching it to the holder. The piece of wire-like metal constituting the clearer is shown as bent into U shape, and thereafter the legs so produced are bent substantially at right angles, and the holder is provided with holes or sockets to receive the ends of the wire so bent. The clearer is shown as movable radially on or with relation to the center of the holder, and is represented as held in position by its frictional engagement or contact with the holder; but it may be fixed.

Figure 1 shows in side elevation a spinning-ring, its holder, and a traveler-clearer embodying this invention; Fig. 2, a cross-sectional detail to be referred to; Fig. 3, a detail of the traveler-clearer; Fig. 4, a side elevation of a spinning-ring, its holder, and a modified form of traveler-clearer; Fig. 5, a cross-sectional detail of the traveler-clearer shown in Fig. 4; Fig. 6, a detail of the clearer removed, and Figs. 7 to 9 another modification of my invention.

The ring *a* and holder *b* are of usual or suitable construction. The holder *b* is provided with suitable holes or sockets for the reception of the base or foot of the clearer, to be described.

The traveler-clearer consists of a strip of wire-like material bent into substantially U shape to constitute a loop which stands substantially vertical, and the wire-like material is also bent substantially at right angles to form a base or foot, which in practice enters the holes or sockets in the ring-holder.

The material from which the clearer is made will preferably be of spring metal, and the material will be so bent that the tendency of the two parts of the base or foot is to move toward each other, so that when the clearer is placed in position in the holder it will be held by the friction produced by the spring-like action of the parts of the clearer. The holes or sockets are herein shown as formed completely through the holder, thereby giving depth sufficient to enable the base or foot of the clearer to be inserted thereon more or less as the clearer is adjusted radially with relation to the center of the holder.

In Figs. 4, 5, and 6 the clearer is shown of substantially the same form; but it is represented as permanently secured or soldered to the holder.

In Figs. 7, 8, and 9 the holder shown is of the plate form, and it has struck up from it suitable eyes or sockets for the reception of the base or foot of the clearer.

I claim—

A spinning-ring holder having a socket or recess, combined with a traveler-clearer having a foot or base to enter the said socket or recess and made adjustable on the said holder, 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.