(No Model.)

A. F. WHITIN.

TRAVELER CLEARER FOR SPINNING MACHINES.

No. 412,574. Patented Oct. 8, 1889.

Fig. 1.

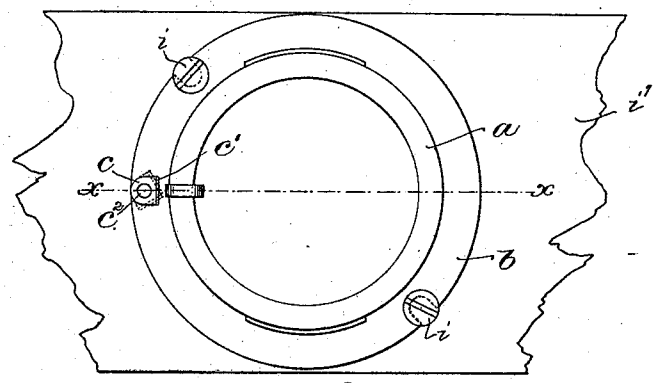


Fig. 2.

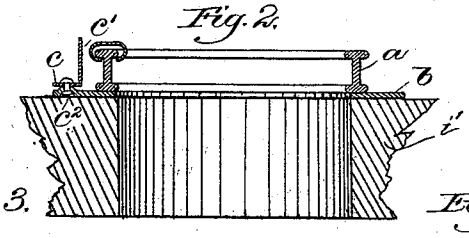


Fig. 3.

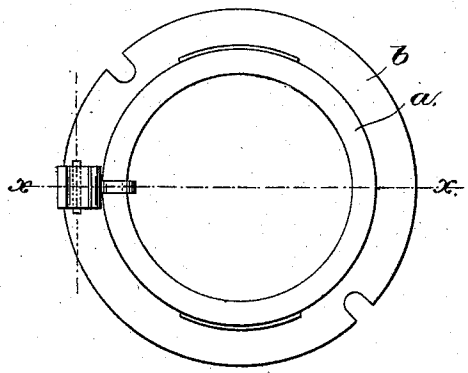


Fig. 4.

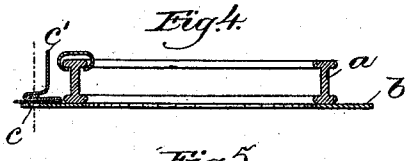


Fig. 5.



Fig. 6.

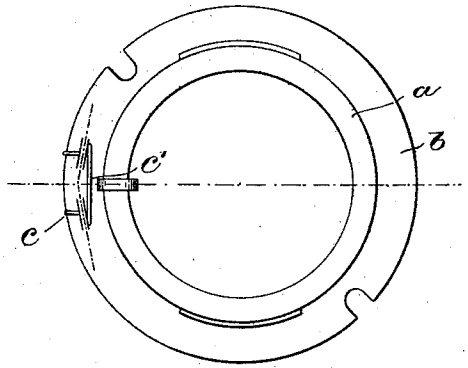


Fig. 7.

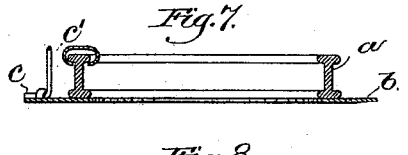
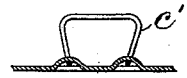


Fig. 8.



Witnesses.
John F. C. Printzlau
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 SPINNING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 412,574, dated October 8, 1889.

Application filed March 28, 1889. Serial No. 305,117. (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 Spinning-Machines, 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 the ring-holder or plate employed to hold a spinning-ring with a traveler-clearer adjustable thereon. The ring-holder or plate, held in its proper position by a confining-screw or otherwise, as desired, has arranged on it the traveler-clearer, herein shown as consisting, essentially, of a piece of metal or other suitable material, bent or shaped to form a base or foot to rest on or engage the holder and an upright to stand near the ring. The means employed to hold the clearer in place is entirely independent of the confining-screw or means employed to hold the ring-holder or plate, so that each may be adjusted independently.

Figure 1 shows in plan view part of a ring-rail and a spinning-ring and its holder or plate, the latter being provided with a traveler-clearer embodying this invention; Fig. 2, a cross-section of the ring-rail, ring, ring-holder, and clearer shown in Fig. 1, taken on the dotted line $x\,x$ of Fig. 1; Fig. 3, a plan view of a spinning-ring and ring-holder and a modified form of traveler-clearer; Fig. 4, a cross-section of the ring, ring-holder, and clearer shown in Fig. 3, taken on the dotted line $x\,x$, Fig. 3; Fig. 5, a detail of the clearer shown in Figs. 3 and 4; Fig. 6, a plan view of a spinning-ring, its holder, and a modified form of clearer; Fig. 7, a cross-section of the ring, holder, and clearer shown in Fig. 6; and Fig. 8, a detail of the clearer shown in Figs. 6 and 7.

The spinning-ring a and its holder or plate b are and may be of any usual or suitable construction, the holder having recesses or equivalents for the reception of the confining-screws i, by which the holder is attached to the rail i'.

The traveler-clearer shown in Figs. 1 and 2 consists of a piece of metal bent or shaped to form a base or foot c and an upright portion c'. The base or foot c rests on or against the ring-holder and the upright c' stands substantially vertically near the ring and adjacent to the path of movement of the usual traveler. The base or foot in Figs. 1 and 2 has a hole for a rivet c^2, it being employed to connect the clearer and holder operatively together. The rivet c^2 secures the clearer to the ring-holder frictionally, or so that the clearer may be turned on the said rivet as a pivot and remain wherever placed. Thus it will be seen that the clearer may be adjusted by simply turning it on its pivot.

In Figs. 3, 4, and 5 the clearer is represented as a piece of metal bent to present two parts or arms—viz., a vertical part c' and a horizontal base or foot part c, the said horizontal part c being folded on itself to present a V-shaped spring-acting portion, which is pushed through a loop formed upon or attached to the holder. In this instance the part c holds frictionally, and hence the clearer is adjustable toward and from the traveler.

In Figs. 6, 7, and 8 the clearer is represented as a piece of wire bent to present a vertical portion, as c', and a horizontal base or foot portion c, said portion c comprising the two ends of the piece, and the holder has loops or eyes which receive the said ends. In this instance the clearer is held in position by the natural spring of the two end portions from each other and is adjustable toward and from the traveler.

From the foregoing it will be seen that many different forms of clearer may be provided without departing from this invention, and also the clearer may be variously held in position and adjusted.

I am aware that a traveler-clearer has been held in adjusted position on a ring-holder by means of the confining-screw employed to secure the holder to the rail; but in such instance, whenever it is desired to adjust the holder the clearer would have to be readjusted, and vice versa, hence necessitating a great loss of time.

Believing myself to be the first to attach a traveler-clearer to a ring-holder adjustably by means independent of the confining-screw of the holder, whereby the holder and clearer

may be independently adjustable, I do not desire or intend to limit my invention to the exact construction shown for the clearer, and in Figs. 3 to 8 I have shown modifications, which are a species of my invention, which I deem proper subject-matter for specific claims, and the clearers specifically shown in Figs. 3 to 8 are shown in other applications, Serial Nos. 305,117 and 305,118, wherein the specific construction of the clearer is claimed.

I claim—

1. A ring-holder and means, substantially as described, for holding it to the rail, combined with a traveler-clearer adjustably attached to or connected with it by means independent of the means employed for securing said holder in place, substantially as described.

2. A spinning-ring holder and means, substantially as described, for holding it to the rail, combined with a traveler-clearer pivotally connected to the holder by means independent of the means employed for securing said holder in place, substantially as described.

3. A ring, a ring-holder, and means, substantially as described, for holding it to the rail, and a traveler-clearer connected to the said holder, the said clearer consisting of a piece of material bent or shaped to form a base or foot and an upright portion, and means independent of the means employed for securing said holder in place to connect the base or foot to the holder, leaving the vertical part of the clearer extended upwardly near the ring, 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.