

UNITED STATES PATENT OFFICE.

WILLIAM T. CARROLL, OF MEDWAY, MASSACHUSETTS.

IMPROVEMENT IN RING FOR SPINNING-FRAME.

Specification forming part of Letters Patent No. **89,025**, dated April 20, 1869.

To all whom it may concern:

Be it known that I, WILLIAM T. CARROLL, of Medway, in the county of Norfolk and State of Massachusetts, have made a new and useful invention having reference to the Rings of Ring and Traveler Spinning-Machines or Frames; and I do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a top view, and Fig. 2 a vertical section, of a ring and its supporter or rail as provided with my invention.

The nature of my invention consists in a traveler-ring made with two races, arranged in manner as hereinafter explained, with clamp-screws and a supporter or ring-rail.

My improved ring costs no more to construct than an ordinary ring having a single race, and in fact, in many cases, can be made for less, and thus it will save nearly, if not entirely, the cost of such a ring when replacement of it by another may become necessary, for with my duplex race-ring, when one race may become so worn as to be unfit for use with a traveler, it becomes necessary only to invert or turn over the ring, so as to bring upward the unworn race.

In the drawings, A denotes the ring as made with two traveler race-courses or races, *a b*, arranged at opposite ends of it, as represented.

In using this ring it is to rest on the rail B, or in a shallow socket or cavity, *c*, arranged therein, the depth of the socket corresponding about with that of one of the races which is to go into it. This socket I usually make with a diameter a little larger than that of the race, in order to enable the ring to be moved laterally, and centralized with respect to the spindle.

I screw down into the ring-rail or supporter B a series of clamp-screws, *d d d*, so arranged that their heads may overlap and rest on the lower race, in manner as represented in the drawings, such clamp-screws serving to confine the ring to the rail or supporter B.

I make no claim to providing for the adjustment of the rings in the rail of a spinning-frame, by making the holes in the rail for the reception of such rings larger than the exteriors of the portions of the rings which are received within them, and applying adjusting-screws in combination with the holes and rings, substantially as and for the purpose specified in the United States Patent No. 39,657, as I have no screws so applied to the ring as to effect its movement when any one or more of them are in revolution. The screws I use simply clamp the ring down to the rail.

I am aware that in an application for a patent made by Samuel Brooks, March 11, 1840, a box or ring provided with internal and external grooves is represented; but no method is shown of applying such ring to the ring-rail, except it be by a clasp of wire to go about it, and project from and be screwed to the rail. Nor is any means of adjusting or clamping such a ring on the ring-rail, and with reference to the spindle, shown in such application.

What I claim, and desire to secure by Letters Patent, is—

The combination of the ring made with two races, as described, the socketed ring-rail, and the clamp-screws for holding said ring to the rail, the whole being constructed and arranged as and for the purposes shown and specified.

W. T. CARROLL.

Witnesses:

S. W. RICHARDSON,
HENRY E. MASON.

H. J. Case.

Mechanical Movement.

N^o 89,020.

Patented Apr. 20, 1869.

Fig. 1.

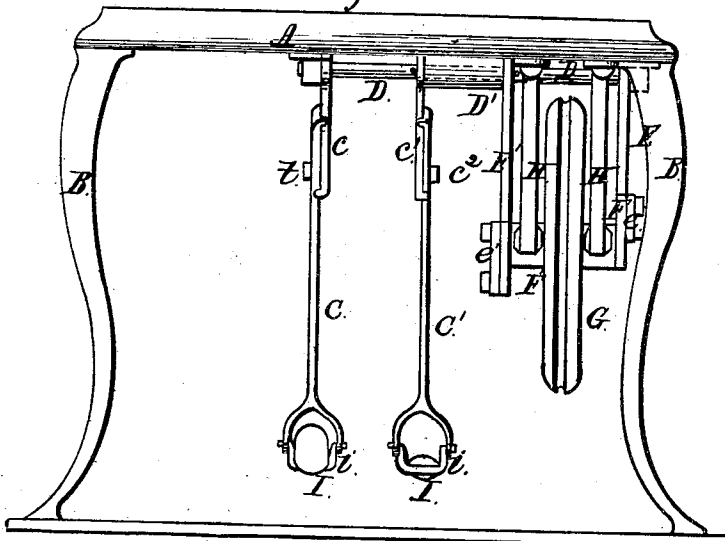


Fig. 2.

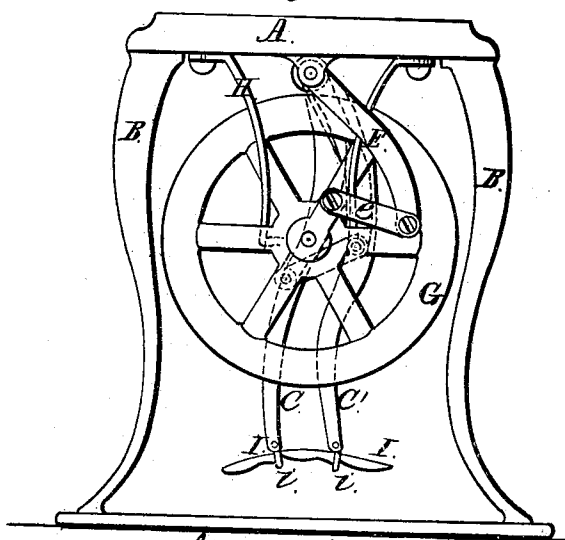
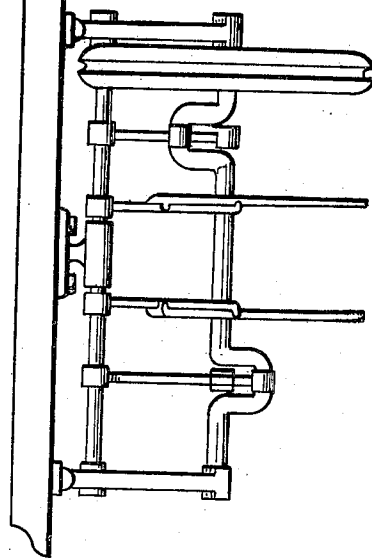


Fig. 3.



*Witnesses: Fred Rytton
John J. Chew*

*Inventor:
Henry J. Case
by his atty
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