

W. Jenckes,
 Ring Spinning Frame,
 No 39,657, Patented Aug. 25, 1863.

Fig. 1.

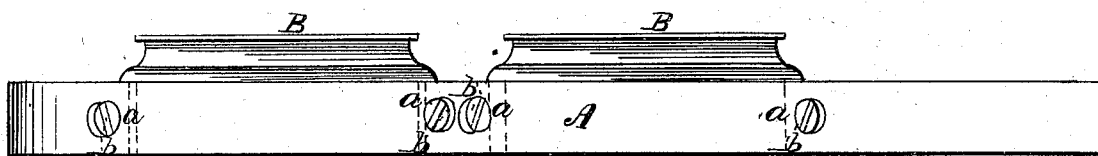
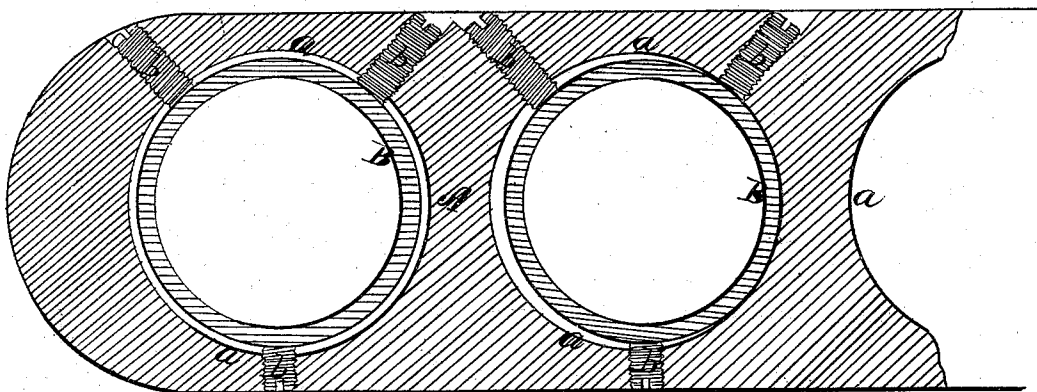


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

WELCOME JENCKES, OF MANCHESTER, NEW HAMPSHIRE.

IMPROVEMENT IN RING-SPINNING FRAMES.

Specification forming part of Letters Patent No. **39,657**, dated August 25, 1863.

To all whom it may concern:

Be it known that I, WELCOME JENCKES, of Manchester, in the county of Hillsborough and State of New Hampshire, have invented a new and useful Improvement in the Ring-Spinning Frame; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a front view of a portion of the ring rail of a ring-spinning frame, illustrating my improvement. Fig. 2 is a horizontal section of the same.

Similar letters of reference indicate corresponding parts in both figures.

In all ring-spinning frames heretofore constructed, as far as known to me, the rings have been fitted snugly into openings provided for them in the ring-rail without any provision for adjusting them in the said rail. The said rail is held in place by lifting-rods, which work up and down in stationary guides provided for them in the frame, and as these rods and guides wear the rings become eccentric to the spindles and cause great irregularity in the draft of the yarns in every revolution of the travelers and spindles and make imperfect work.

The object of my invention is to provide for the adjustment of the several rings in the rail separately, to set them concentric with their respective spindles; and to this end it consists in making the openings provided in the ring-rail for the reception of the rings larger than the exteriors of the portions of the rings which are received within them, and in the employment of adjusting-screws screwing into the rail from the inner and outer sides thereof and into the said holes, to adjust and hold the said rings therein.

To enable others skilled in the art to apply my invention, I will proceed to describe it with reference to the drawings.

A is the rail, and B B the rings. The rings B B are of the usual construction. *a a* are the holes in the rail for the reception of the rings, about one-eighth of an inch larger in diameter than the exteriors of the portions of the rings which are received within them. *b b* are the adjusting-screws, of which I propose to use three for each ring, as a perfect adjustment cannot well be obtained with a less number. These screws are inserted from the sides of the rail opposite to each ring, two from one side and one from the other, into tapped holes provided in the rail for their reception, and are arranged radial to the axes of their respective holes, and as nearly as practicable at equal distances apart around each hole, and are screwed tightly enough against the rings to hold them in place. When a ring requires adjustment, one or more of its respective screws are screwed outward and the other or others screwed inward till the ring is brought concentric with its spindle, each ring being thus adjusted independently of the rest.

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

Providing for the adjustment of the rings in the rail of a ring-spinning frame by making the holes in the rail for the reception of the said 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 herein specified.

WELCOME JENCKES.

Witnesses:

WM. L. KILLEY,
THOS. S. SARGENT.