

J. B. BANCROFT.
Adjustable Spinning-Rings.

No. 140,757.

Patented July 15, 1873.

Fig. 1.

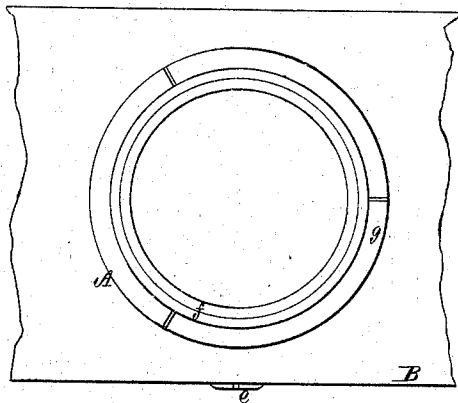


Fig. 3.

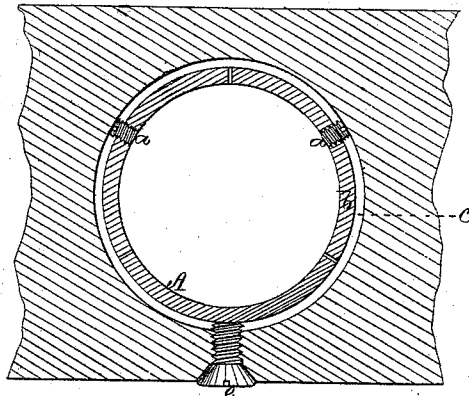


Fig. 2.

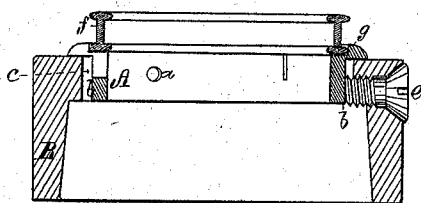


Fig. 4.

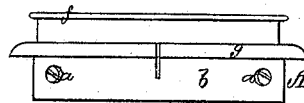


Fig. 5.

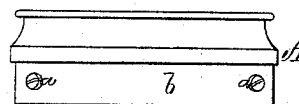


Fig. 7.

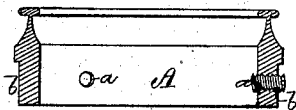


Fig. 6.

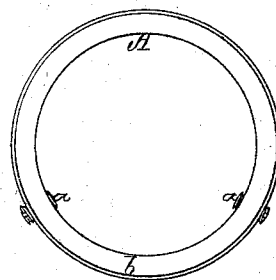
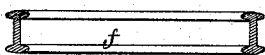


Fig. 8.



Witnesses.

S. N. P. per

G. W. Miller

Joseph B. Bancroft.

by his attorney.

R. H. Eady

UNITED STATES PATENT OFFICE.

JOSEPH B. BANCROFT, OF HOPEDALE, MASSACHUSETTS.

IMPROVEMENT IN ADJUSTABLE SPINNING-RINGS.

Specification forming part of Letters Patent No. **140,757**, dated July 15, 1873; application filed June 2, 1873.

To all whom it may concern:

Be it known that I, JOSEPH B. BANCROFT, of Hopedale, of the county of Worcester and State of Massachusetts, have made a new and useful invention having reference to the Rings of Spinning-Frames or their proper adjustment with respect to their spindles; 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, Fig. 2 a transverse section, and Fig. 3 a horizontal section, of a portion of a spinning-frame ring-rail, and its ring provided with a reversible or duplex race and my invention. Fig. 4 is a side elevation of the ring with the adjusting-screws of its shank. Fig. 5 is an elevation of an ordinary or single race-ring and its adjusting-screw; Fig. 6, an under side or bottom view of it; and Fig. 7, a transverse section of it, the plane of section being through one of the adjusting-screws. Fig. 8 is a similar section of the reversible or duplex race-ring.

In carrying out my invention I provide the ring A with two, or another suitable number of screws, *a a*, inserted radially in, and so as to project from its shank *b* or the outer periphery thereof. In case two only of such screws are used, I prefer to arrange them apart from one another, at about one-third of the circumference of the shank, and to place the shank in the socket *c* of the ring-rail B, so that the clamp-screw *e* inserted in the rail may be at, or about at, an equal distance from each screw *a*, all being as shown in Fig. 3. By means of such screws *a* and the clamp-screw *e*, (the diameter of the rail-socket being somewhat larger than the diameter of the ring-shank,) the ring may be readily adjusted into concentricity with the spindle. Each of the screws *a* is to have a neck across either or each end of it, to enable such screw to be revolved by a screw-driver. The screws *a* are to bear at their outer ends against the

periphery of the ring-socket, so as to hold or aid in holding the ring concentric with the spindle. In effecting adjustment of the ring the screws are to be revolved so as to project the proper distance from the periphery of the shank, in order to bring the ring concentric with the spindle when the screws are in contact with the periphery of the socket. After the adjustment may have been properly effected the clamp-screw may be set up to the shank, so as to confine the ring in place therein. When I do not depend on the clamp-screw in the rail to aid in effecting the adjustment of the ring, I usually put three or more screws in the ring-shank, such screws being arranged at or about at equal distances apart. The duplex or reversible race is shown at *f* as applied to its carrier *g* or remainder of the ring.

With my arrangement of the adjusting-screws—viz., in the shank of the ring—they, when the ring is in place in the socket of the rail, become covered and protected from gathering lint, and they in no way project from the rail so as to be impediments to the easy cleaning or wiping of it. Furthermore, a ring provided with adjusting-screws arranged in its shank, as specified, can be made cheaper than what are termed eccentric rings used in spinning.

I claim—

The spinning-frame ring, (whether having a stationary or reversible race,) provided with two or any other suitable number of adjusting-screws, *a*, arranged in its shank, in the manner and to operate in connection with the socket in the ring-rail, substantially as specified, for effecting or to aid in effecting adjustment of the ring into concentricity with the spindle.

JOSEPH B. BANCROFT.

Witnesses:

R. H. EDDY,
J. R. SNOW.