

F. J. DUTCHER.

Holding and Adjusting Device for Spinning-Rings

No. 164,536.

Patented June 15, 1875.

Fig. 1.

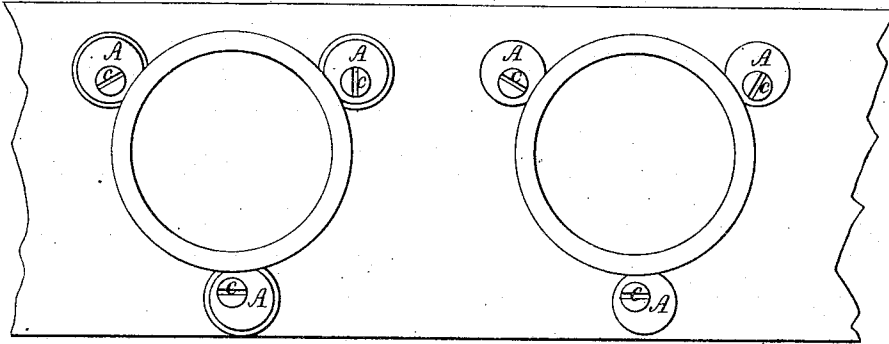


Fig. 2.

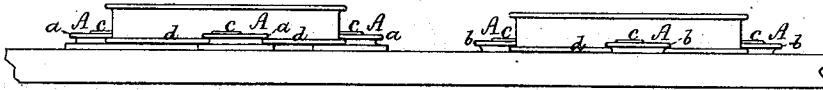


Fig. 3.

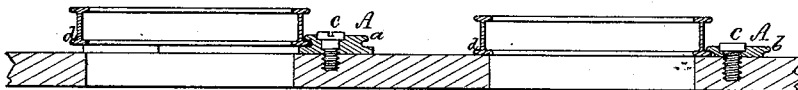


Fig. 4.

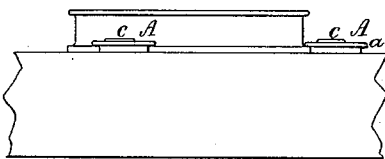
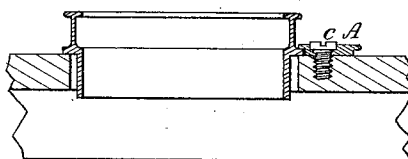


Fig. 5.



Witnesses.

S. W. Piper  
L. N. Höller

Frank J. Dutcher

by his attorney

R. W. Eddy

# UNITED STATES PATENT OFFICE.

FRANK J. DUTCHER, OF HOPEDALE, MASSACHUSETTS.

IMPROVEMENT IN HOLDING AND ADJUSTING DEVICES FOR SPINNING-RINGS.

Specification forming part of Letters Patent No. **164,536**, dated June 15, 1875; application filed May 22, 1875.

*To all whom it may concern:*

Be it known that I, FRANK J. DUTCHER, of Hopedale, of the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in Machinery for Spinning; and 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 an elevation, and Fig. 3 a transverse section, of two spinning-rings and their supporting-rail with my invention attached thereto, each of said rings being what is termed a duplex or double race ring. Fig. 4 is a side view, and Fig. 5 a transverse section, of a single race ring and its rail, with my improvement, the object of which is to confine the ring to the rail, and effect the adjustment of the ring into concentricity with the spindle. My invention affords a ready means of accomplishing the removal of the ring from the rail for the purpose of cleaning either. It also saves the necessity of readjusting the ring to the spindle on restoration of the ring to the place in or over the socket of the rail. This will be understood when it is seen that to enable a ring to be removed from the rail, one only of the eccentric clamps need be revolved, the others remaining fixed down to the rail. On replacing the ring it has only to be borne against the two fixed eccentrics, after which the loosened one is to be turned around up to the ring, and clamped down to the rail.

In carrying out my invention I make use of three eccentric clamps with a screw to each for it to turn on, and to confine it down to the ring-rail. These clamps are shown at *A A A*, each being a circular disk, flanged or grooved on its periphery, as shown at *a* or *b*. Each has a hole made down through it eccentrically to receive one of three clamp-screws, *c c c*, which go through the holes and screw into the rail. These eccentric clamps, arranged on the ring-rail, and with the ring in the manner shown, overlap its lower flange or race *d*, or receive it in their peripheral grooves. By turning the clamps on their screws, the ring may be adjusted into concentricity with the spindle. On the clamps being set up to the ring, and their screws being set down so as to force the clamps firmly down to the rail, the ring will be held in place.

I do not claim, broadly, a ring and its rail provided with means of adjusting the ring into concentricity with the spindle.

What I claim as my invention is—

The grooved or flanged eccentrics and their clamp-screws, combined with and applied to a spinning-frame ring and its support-rail, substantially as specified.

FRANK J. DUTCHER.

Witnesses:

W. W. DUTCHER,  
J. J. CROSS.