D. J. HURLEY.
Spinning-Ring.

No. 204,489. Patented June 4, 1878.

Fig. 1.

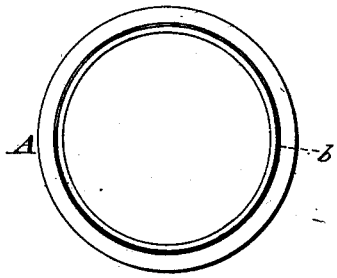


Fig. 2.

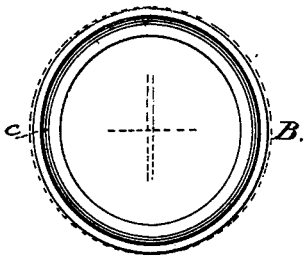


Fig. 3.

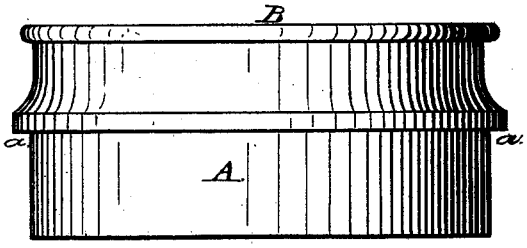


Fig. 4.

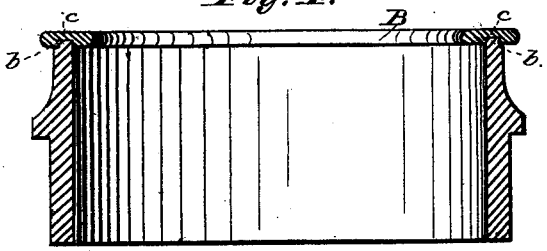
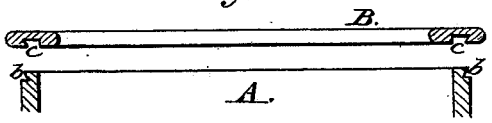


Fig. 5.



Witnesses:
W. J. Bell
Wm. D. Christy

Inventor:
Daniel J. Hurley
By James L. Boyce
his Atty

UNITED STATES PATENT OFFICE.

DANIEL J. HURLEY, OF OIL CITY, PENNSYLVANIA.

IMPROVEMENT IN SPINNING-RINGS.

Specification forming part of Letters Patent No. **204,489**, dated June 4, 1878; application filed April 11, 1877.

To all whom it may concern:

Be it known that I, DANIEL J. HURLEY, of the city of Oil City, in the county of Venango and State of Pennsylvania, have invented a new and useful Improvement in Spinning-Rings, which is fully set forth in the following specification, reference being had to the accompanying drawing.

The object of my invention is to produce a spinning-ring for spinning-machines that is simple in construction and less expensive than those now in use, and which can be easily repaired.

This invention consists in the combination of a solid main ring formed with a projecting elliptical dovetailed upper edge and a detachable flat raceway provided with an elliptical dovetailed groove which fits over the dovetailed edge of the main ring, and upon which it is fastened by slightly turning it.

In the accompanying drawing, Figure 1 is a top view of the main ring. Fig. 2 is a bottom view of the detachable raceway, showing its eccentricity or elliptical form. Fig. 3 is an enlarged side view of the spinning-ring complete. Fig. 4 is a vertical cross-section of Fig. 3. Fig. 5 is a cross-section through the upper edge of the main ring and the raceway.

In the drawing, A represents the main or lower part of a spinning-ring, having the usual shoulder *a* to hold it in place. The upper edge of this ring A is provided with a dovetail end or recess, *b*, over which the groove *c* in the raceway B snugly fits; and as both of these dovetails are made not on a true circle, but slightly eccentric or elliptical, the raceway can be put on the main ring when the two longer axes are placed parallel, and the raceway B, by being slightly turned, can be then firmly fastened to the main ring, or the main ring A can have its dovetail *b* cut on a true circle, and the raceway B have its dovetailed groove *c* cut on a slight ellipse. The raceway B can be then sufficiently compressed by the hand, so as to give its groove *c* a circular form when it is to be applied, and then, on giving it a slight turn and releasing its pressure, it will have a tendency to spring back to its eccentric shape, being, however, prevented by the circular groove *b*, and thus it will firmly clasp the main ring A almost as if they were made of one piece.

The advantages of my improved spinning-ring are, that as the raceway (which is subject to the most wear) is made detachable, it can be very readily and quickly detached and replaced by another one when worn, thus obviating the necessity of an entire new spinning-ring, as is the case with the ordinary spinning-ring now in use. It can be furnished at a very small cost, and there is no possibility of its getting out of order. It may be made of any suitable metal. The ring-carrier B may be made of fine steel, and the main ring A of iron or other cheap metal.

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

In a spinning-ring, the combination of the solid main ring A, formed with a projecting dovetail, *b*, and a detachable flat raceway provided with the elliptical dovetailed groove *c*, as shown and described.

DANIEL J. HURLEY.

Witnesses:

WARREN O. INNIS,

JAMES C. BOYCE.