W. F. DRAPER.

SPINNING-RING HOLDER.

No. 192,490. Patented June 26, 1877.

Fig. 1.

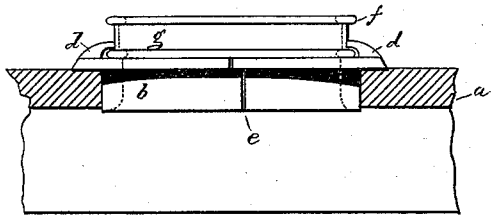


Fig. 3.

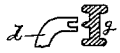
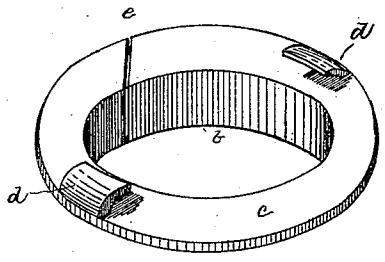


Fig. 4



Fig. 2.



Witnesses.

E. C. Perkins.

L. H. Latimer.

Inventor.

William F. Draper

per Crosby & Gregory. Attys.

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UNITED STATES PATENT OFFICE.

WILLIAM F. DRAPER, OF HOPEDALE, MASSACHUSETTS.

IMPROVEMENT IN SPINNING-RING HOLDERS.

Specification forming part of Letters Patent No. **192,490**, dated June 26, 1877; application filed April 30, 1877.

To all whom it may concern:

Be it known that I, WILLIAM F. DRAPER, of Hopedale, in the county of Worcester and State of Massachusetts, have invented an Improvement in Spinning-Ring Holders, of which the following is a specification:

This invention relates to improvements in spinning-ring holders, and has special reference to the combination, with a double-raced ring, of a ring-holder adapted to engage and hold the ring between its flanges, rather than by its lower flange, as heretofore commonly done, whereby the flange is relieved from strain, and other advantages are gained.

Necked ring-holders, as now commonly constructed, have their interior portions above the rail rabbeted or undercut, either rounding or inclined, so as to receive the lower portion of the ring on the unused race.

In this my invention the necked holder, instead of being provided at top with an annular space formed to present an undercut rim or holding-flange to completely surround the ring, is provided at top with two or more hooks extended toward the center of the opening in the neck, and elevated above the top surface of the holder, so as to engage the ring between its upper and lower ends, instead of its extreme lower end.

Figure 1 represents one of my improved ring-holders and rings in side elevation, the ring-rail being shown in section. Fig. 2 represents the holder in perspective, and Figs. 3 and 4 modifications, showing part of a ring and the hook of a holder.

The ring-rail *a* is provided, as usual, with holes for the reception of the necked holder, cemposed of a neck, *b*, and an annular portion, *c*, to rest upon the surface of the rail, and hooks *d d*, projecting inwardly toward the center of the holder. The neck and flange are split, as shown at *e*, so that the neck, acted upon by screws passing through the side of the ring-rail, will be contracted.

The ring *f* is an ordinary double-raced ring, the two races being connected by a body part, *g*.

When the holder is in its normal position, the hooks receive the unused race between them, but do not hold it closely. The unused race or lower race of the ring will be placed upon the surface of the portion *c*, and the hooks *d* will extend above it.

Now, a holder set in a hole in a ring-rail, and having a ring between its hooks, will be acted upon by the screws in the rail (three screws being preferably used, as in the Jencks patent) until the screws contract the holder to press the ends of the hooks sufficiently close against the portion *g* of the ring above the lower flange or race to hold it firmly in place.

In this condition the hooks need not touch the lower race. The ends of the hooks may enter an annular groove, or a depression formed in the body part of the ring, as at Fig. 4, or the ends of the hooks may be shaped to fit an annular rim, a projection on the body part of the ring, as in Fig. 3.

I claim—

The combination, with a two-raced spinning-ring adapted to rest on the holder above the ring-rail, of a necked holder provided with hooks adapted to engage the ring at, and so as to hold it by, its body only, without bearing upon the lower or unused end of the ring, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WM. F. DRAPER.

Witnesses:

G. W. GREGORY,

S. B. KIDDER.