

J. C. STANLEY.
SPINNING QUILLS.

No. 188,825.

Patented March 27, 1877.

Fig. 1.



Fig. 2.

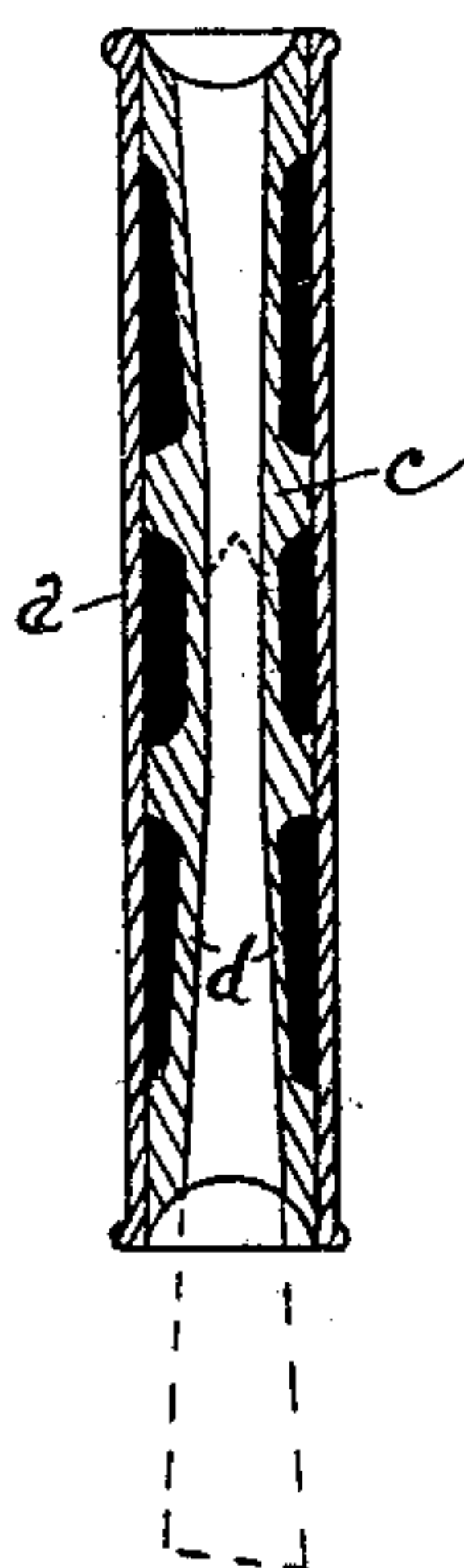


Fig. 3.



WITNESSES:

Robt. F. Gaylord
W. J. Dooley

INVENTOR:

James C. Stanley
By *W. E. Simonds*
Atty.

UNITED STATES PATENT OFFICE.

JAMES C. STANLEY, OF NEW HARTFORD, CONNECTICUT.

IMPROVEMENT IN SPINNING-QUILLS.

Specification forming part of Letters Patent No. 188,825, dated March 27, 1877; application filed November 29, 1876.

To all whom it may concern :

Be it known that I, JAMES C. STANLEY, of New Hartford, in the county of Litchfield and State of Connecticut, have invented certain new and useful Improvements pertaining to Spinning-Quills, of which the following is a specification, reference being had to the accompanying drawings, where—

Figure 1 is an exterior view of a spinning-quill. Figs. 2 and 3 are views in central longitudinal section, showing interior shells or bushings with bearings between the inner and outer shells variously located.

The invention consists in an inner shell or bushing for a spinning-quill, so shaped as to fit upon the spindle with either end uppermost, thus doubling the life and durability of the quill.

The letter *a* denotes the exterior tube or shell of a spinning-quill, and the letter *d* the bushing or inner shell. The bearings *c* between the inner and outer shells may be variously located, as illustrated in Figs. 2 and 3.

The inside of the inner shell or bushing *d* is so shaped that it will fit upon the spindle with either end uppermost, thus doubling the wear of the quill.

I claim as my invention—

In a spinning-quill, the inner shell *d*, so shaped as to fit upon the spindle either end uppermost, substantially as described, and for the purpose set forth.

JAMES C. STANLEY.

Witnesses:

ORRIN FITCH,
HOWELL W. BROWN.