

(No Model.)

J. LONGINUS.  
SPINDLE.

No. 482,259.

Patented Sept. 6, 1892.

FIG. 1.

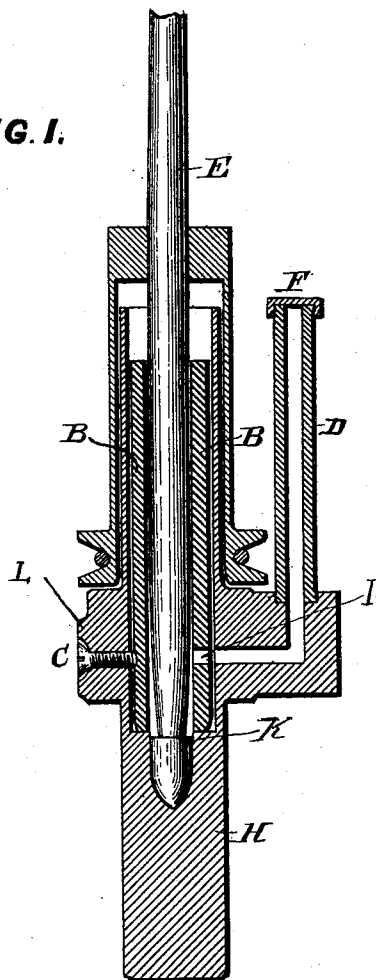


FIG. 2.



ATTEST.

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# UNITED STATES PATENT OFFICE.

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## SPINDLE.

SPECIFICATION forming part of Letters Patent No. 482,259, dated September 6, 1892.

Application filed February 26, 1892. Serial No. 422,948. (No model.)

### *To all whom it may concern:*

Be it known that I, JOSEPH LONGINUS, a citizen of the United States of America, residing at Pottsville, in the county of Schuylkill and State of Pennsylvania, have invented certain new and useful Improvements in Spindles, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention has for its object an improved means for applying lubricants to spindles, and I attain my object in the manner hereinafter set forth and claimed.

In the drawings, Figure 1 is a vertical section of my device, and Fig. 2 is a detail of the bolster.

Like characters of reference indicate the same parts throughout both views.

The spindle E has a varying diameter gradually tapering from a point a short distance below the top of the bolster B down to the bottom of the bolster, where it presents its smallest diameter, terminating in a conically-shaped bearing in the step and having the shoulder K. The bolster B within the bolster-casing L is snugly fitted around the spindle at its upper part and is partly held in place to support the spindle by the set-screw C. The bolster is supplied with a slot extending downwardly from near its top to its lower extremity for the admission and retention of the lubricant throughout the parts, and also as a means of bringing the bolster

up to the spindle as wear occurs by means of the set-screw.

The lubricant is supplied by the cup D, having the cap F, the cup opening into the cavity by passage I, formed by the taper in the shaft, thus affording a large receptacle for lubricant in and about the bearings of the spindle.

Having thus described my invention, I claim—

1. A spindle of varying diameter supported within the bolster and gradually tapering toward a shoulder and terminating in a conically-shaped step-bearing, in combination with the casing L, having the step H, the bolster B within the casing, and an oil-cup having a supply-tube leading to the spindle at its reduced diameter through an opening in the bolster, substantially as described.

2. The casing L, having step H, in combination with the bolster B within the casing and slotted at its lower extremity, the spindle supported within the bolster, gradually tapering toward a shoulder and terminating in a conically-shaped step-bearing, and an oil-cup having a supply-tube leading to the spindle at its reduced diameter through an opening in the bolster, substantially as described.

JOSEPH LONGINUS.

Witnesses:

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TOM M. SNYDER.