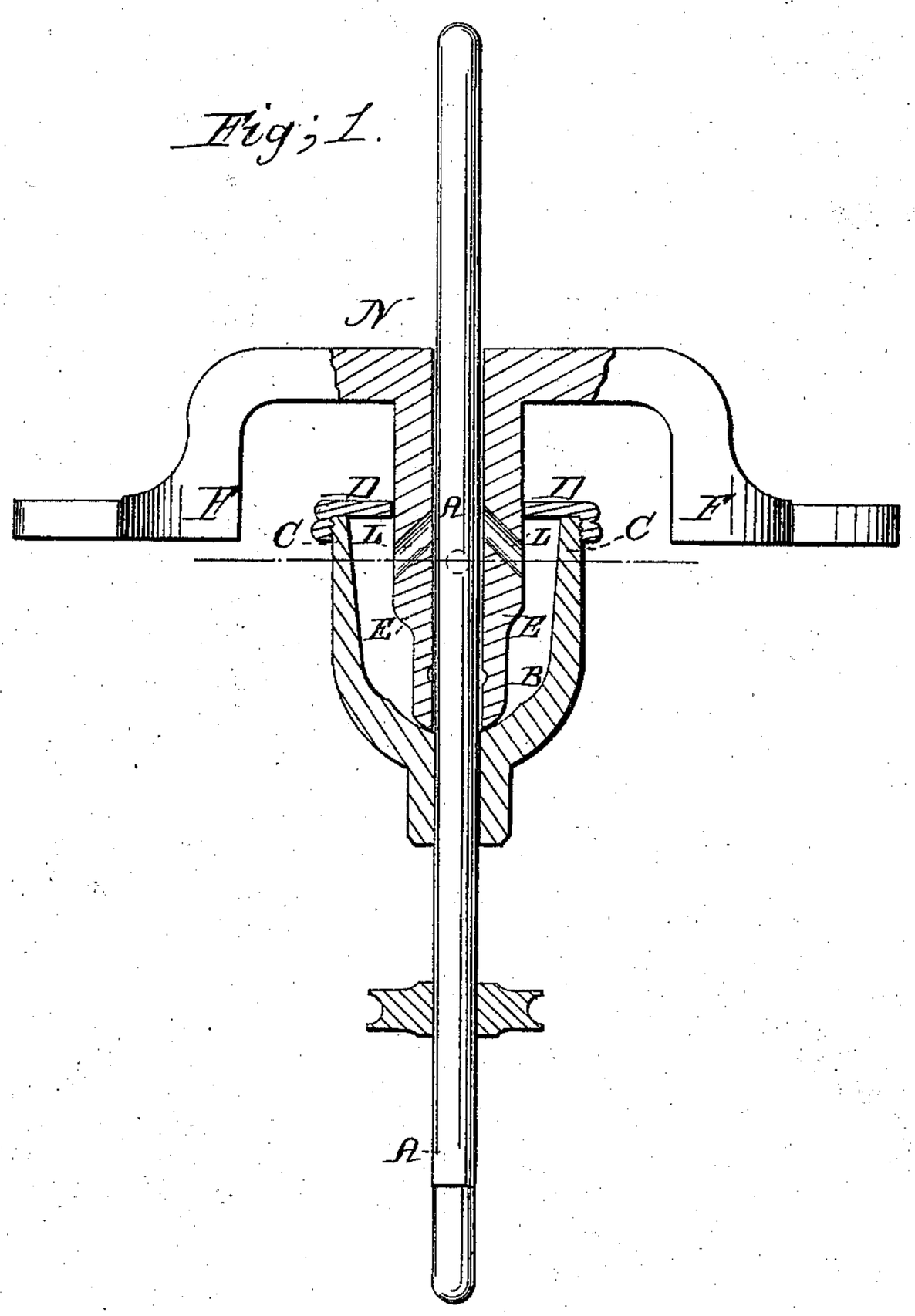
R. P. Underwood,

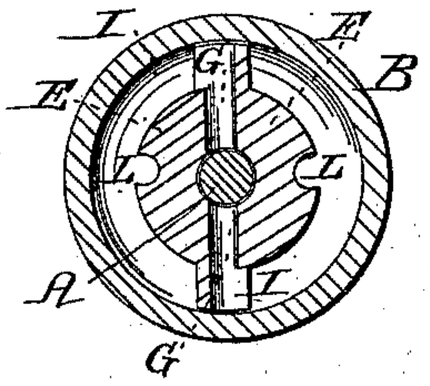
Spindle Lubricator.

No. 67,821. Patented Aug 13, 1867.

Fig; 1.



Fig; 2.



Witnesses;

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R. P. UNDERWOOD, OF BROOKLYN, NEW YORK

Letters Patent No. 67,821, *dated August* 13, 1867.

IMPROVEMENT IN LUBRICATOR FOR SPINDLES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, R. P. UNDERWOOD, of Brooklyn, Kings county, New York, have invented a new and improved "Lubricator;" and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings forming part of this specification.

The present invention relates to a new and improved lubricator for the spindles or shafts of machinery, more especially intended for cotton and spinning machinery; this lubricator being constructed and operating as will be now described, reference being had to the accompanying plate of drawings, in which—

Figure 1 is a central vertical section through the lubricator with the shaft to which it is applied in side elevation, and

Figure 2 a tranverse horizontal section, taken in the plane of the line *x x*, fig. 1.

Similar letters of reference indicate corresponding parts.

A, in the drawings, represents the spindle or shaft, to which my improved lubricator is applied. B, the oil-cup of the lubricator, which cup is made of a conical shape upon its inside, and is secured to the spindle A, so as to revolve in conjunction therewith. The oil is supplied to this cup at its upper end C, which is provided with a suitable cover or lid, D, for closing it; this cover being adapted to screw over and upon the same. E, a centre core or plunger, within the cup B, and about the spindle A, which is so arranged to turn therein. This core extends up through the cover D to the lubricating cup B, and projecting above the same, forms a part of or is attached to a cross-arm, N, suitably supported at each end F. In the core or plunger E are two inlet passages G, shown in fig. 2, which, at their outer ends, communicate with the oil-cup, and at their ends open to the spindle; the outer ends of these passages being each provided with an extension-piece, I, by which the oil in the cup, as it is dashed or thrown about through the revolution of the spindle, to which the cup is secured, is caught and thus carried through the passages G to the spindle for lubricating the same; the surplus oil passing from the shaft through the outlet passages L, shown in fig. 1, and partially in fig. 2, provided in the centre core or plug, at suitable points therefor, and moving in an inclined or downward direction from the spindle outward.

I claim as new, and desire to secure by Letters Patent—

The oil-cup B, attached to spindle A, and stationary centre plug or core E, having inlet passages G, provided with extensions I, and outlet passages L, for the oil, substantially as and for the purpose described.

The above specification of my invention signed by me this day of February, 1867.

R. P. UNDERWOOD.

Witnesses:

WM. F. MCNAMARA,

ALBERT W. BROWN.