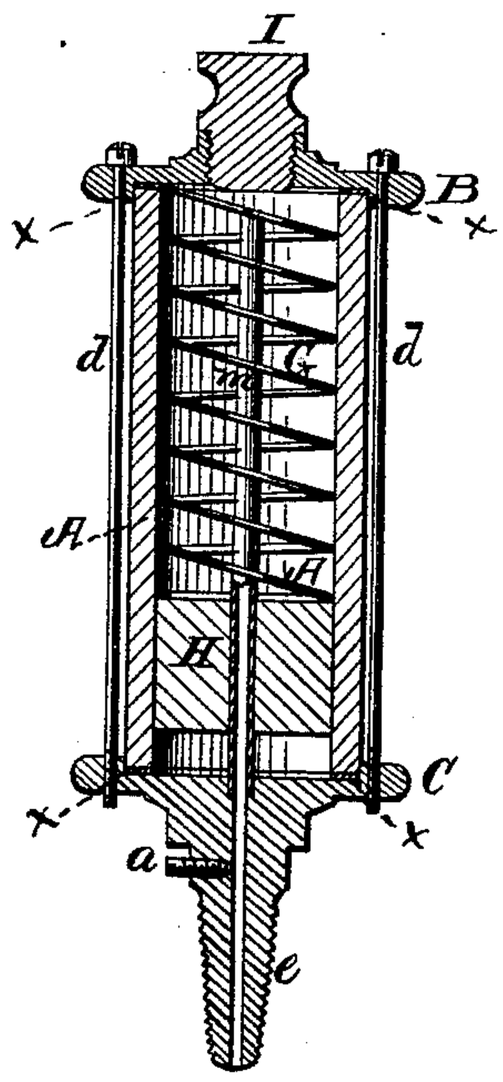
J. C. LAMB.

LUBRICATOR.

No. 189,752. Patented April 17, 1877.



WITNESSES

Franck L. Durand

Frank Gait

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James C. Lamb

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ATTORNEYS.

UNITED STATES PATENT OFFICE.

JAMES C. LAMB, OF MIDDLETOWN, CONNECTICUT, ASSIGNOR TO HIMSELF, WILLIAM RACKLIFF, BENJAMIN DOUGLAS, JR., AND LOUIS B. DEMING, OF SAME PLACE.

IMPROVEMENT IN LUBRICATORS.

Specification forming part of Letters Patent No. **189,752**, dated April 17, 1877; application filed February 19, 1877.

To all whom it may concern:

Be it known that I, JAMES C. LAMB, of Middletown, in the county of Middlesex, and in the State of Connecticut, have invented a certain new and useful Improvement in Lubricators; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of the several parts of a device for supplying oil to pulleys, the peculiarities of which will be hereinafter more fully described.

In order that those skilled in the art may make and use my invention, I will now proceed to describe its construction and operation.

In the accompanying drawing, making part of this specification, A represents a hollow cylinder, made either of glass or metal, or other suitable material. This cylinder is provided with two heads, B and C, each of which is formed with an annular shoulder, *x x*, against which the outer circumference of the cylinder A bears. The head B is provided with an opening, which is fitted with a screw-plug, I. The head C is provided with a tapering screw-nozzle, *e*. The two heads are secured to the cylinder and to each other by means of the connecting-rods *d d*.

m represents a discharge-tube, which passes through the cylinder A, and which has one end secured in the nozzle *e*. The other end of this tube is open, and extends very nearly to the head B, but does not touch it. This tube is surrounded with a weight, H, and also with a coiled-wire spring, G. The spring is placed between the weight and the head B. The weight slides readily upon the tube *m* when necessary.

Oil is inserted in the cylinder through the opening in head B, and then said opening is closed by plug I.

The oil fills the space between the weight and the head B. *a* is an oil-regulating screw. The nozzle *e* is screwed into the pulley, and when the shaft revolves the oil is forced by centrifugal action against the head B, and there it would remain; but, as the weight is also forced toward head B by the same action, it drives the oil into pipe *m*, and from thence it flows through the orifice in the nozzle to the shaft.

When the shaft and pulley are at rest the spring forces the weight back, and the oil cannot escape.

The oil by this arrangement is always kept free from dirt and dust, and is supplied to the shaft as needed.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A centrifugal lubricator composed of a cylinder, A, a nozzle, *e*, a central tube, *m*, with its mouth extending close to the outer head B, a spring, *g*, and weight H, all constructed and arranged to operate substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 6th day of February, 1877.

JAMES C. LAMB.

Witnesses:

FREDERICK DICKERSON,

S. A. ROBINSON.