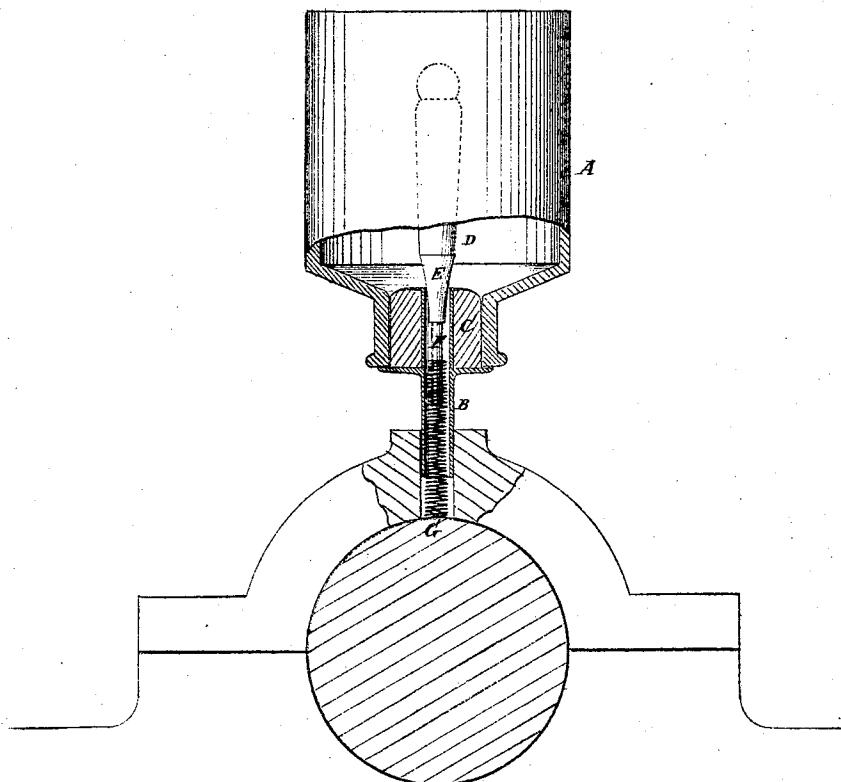


E. Ehlin. Lubricator.

No. 119,751.

Patented Oct. 10, 1871.



Witnesses:

A. W. Almgren
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Inventor

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per *mmw/lo*

Attorneys

UNITED STATES PATENT OFFICE.

ERICK EHLIN, OF SAN FRANCISCO, CALIFORNIA.

IMPROVEMENT IN LUBRICATORS.

Specification forming part of Letters Patent No. 119,751, dated October 10, 1871.

To all whom it may concern:

Be it known that I, ERICK EHLIN, of San Francisco, in the county of San Francisco and State of California, have invented a new and useful Improvement in 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 drawing forming part of this specification.

My invention relates to Lubricators; and the principle thereof consists in causing the oil to trickle over the surface of a conical valve, and then around a spiral coil attached to a prolongation thereof, for the purpose of graduating and economizing the oil.

The accompanying drawing represents a sectional elevation of the device as applied to the journal of a shaft, a cross-section of the latter (with the journal-box) being shown in outline in the drawing.

Similar letters of reference indicate corresponding parts.

A is the oil-reservoir. B is a tube, which passes through the stopper, and is placed in a hole in the cap of the journal-box, as seen in the drawing. C is the stopper. There is a metallic plate or disk on the inner end of the tube B, and also on the outside of the stopper, for keeping the latter in position, although they may be dispensed with. The inner end of the tube B is the cone or valve-seat. D is the cone or valve, which is tapered so as to engage with the cone or valve-seat, as seen at E, and with a stem, F, which extends

down into the tube B, upon the lower end of which there may be a screw-thread. G is a spiral wire-coil, of about the diameter of the interior of the tube B, attached to the stem F, and extending below the lower end of the tube so as to rest upon the journal, as seen in the drawing. The elasticity (laterally) of the spiral wire-coil will hold it to the stem F sufficiently tight in any position, whether the stem is provided with a screw-thread or not. The cone or valve is adjusted by slipping the wire-coil up or down on the stem, so as to allow a greater or less quantity of oil to descend through the tube and reach the journal.

The jarring of the machinery will cause a slight but constant motion in the wire-coil and cone or valve, which serves to feed down the oil uniformly onto the journal and prevent any clogging.

The tube B may be screwed into the box-cap, or it may be connected in any other manner, so as to be supported (with the reservoir) in an upright position.

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

The conical valve E, having prolongation F and wire-coil G, arranged, as described, in connection with a lubricator, to form a gradual conveyer of lubricating material to the journal of a rotating shaft or axle.

The above specification of my invention signed by me this 27th day of July, 1870.

ERICK EHLIN.

Witnesses:

GEO. W. MABEE,
T. B. MOSHER.