Holland & Cody,

Lubricator.

No. 78,594. Patented June 2, 1868.

Fig: 1.

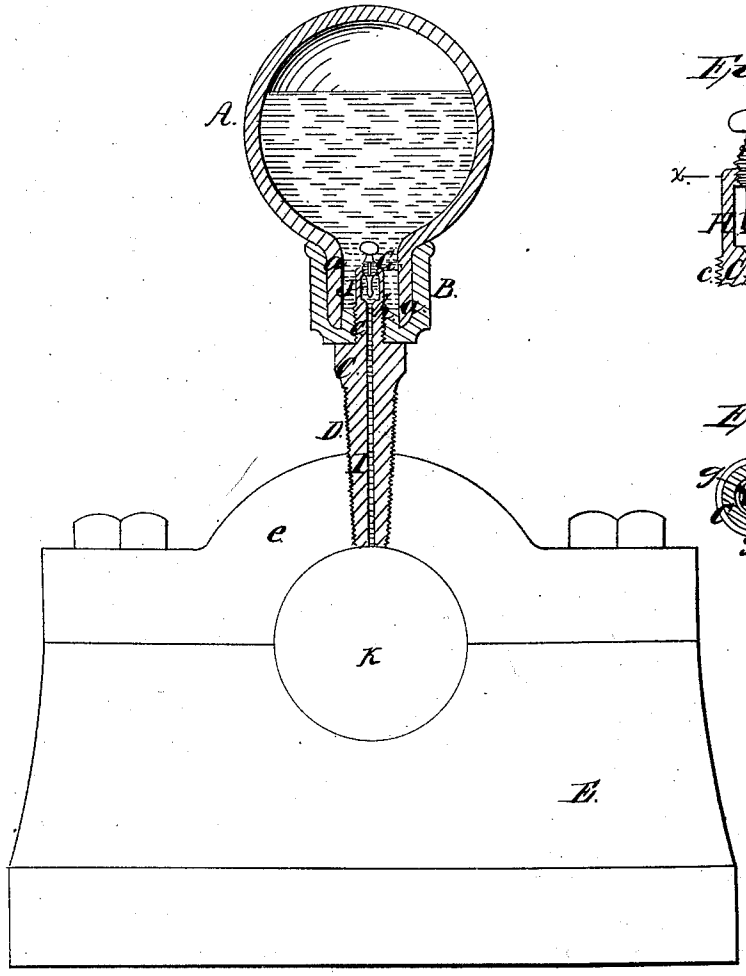

Fig: 2.

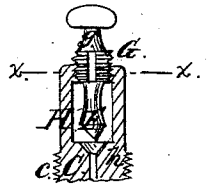

Fig: 3.

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TIMOTHY HOLLAND AND JOHN T. CODY, OF CINCINNATI, OHIO.

Letters Patent No. 78,594, *dated June* 2, 1868.

IMPROVED LUBRICATOR.

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

TO WHOM IT MAY CONCERN:

Be it known that we, TIMOTHY HOLLAND and JOHN T. CODY, both of Cincinnati, Hamilton county, and State of Ohio, have invented a certain new and useful "Improvement in Lubricators;" and do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

Our invention relates to that class of devices which are employed for the purpose of lubricating the shafts of machinery, &c., and our improvement consists in providing either the upper or lower end of the stem of the "lubricator" with an adjustable valve or cut-off, whereby the flow of oil may be regulated so as to suit the various sizes of journal-bearings, and the different velocities at which they may be required to rotate.

In the accompanying drawings—

Figure 1 is an axial section of a lubricator embodying our improvement.

Figure 2 is an enlarged sectional view of the valve and its seat, and

Figure 3 is a horizontal section of the latter, taken at the line X X.

The oil-reservoir or globe A has a neck, *a*, which is cemented or otherwise secured to a socket, B, and the latter is adapted to receive the screw-threaded portion, *c*, of the tubular stem C. The stem C has an exterior screw-thread, D, which permits of the lubricator being attached to the cap *e* of the plumber-block E.

F is the valve by which the flow of oil is regulated, and this valve is rendered capable of being elevated or depressed by the screw-threaded portion G, which engages with a suitable nut formed in the upper end of the stem C. This screw-threaded portion, G, is furnished with a number of oil-ducts, *g*, which permit of the oil flowing readily from the globe A down into the chamber H, whose lower end has a conical seat, *h*, for the reception of the valve F.

The stem C has an axial channel, I, which communicates with the valve-seat *h*, and the shaft to K to be lubricated.

The annular space J, between the upper end of the stem C, and the interior of the neck *a*, serves as a sediment-chamber, in which are collected any impurities which may be precipitated from the oil.

The operation of our improved lubricator is as follows:

The revolution of the shaft K draws the oil down through the ducts *g*, chamber H, and axial channel I, thus keeping said shaft constantly and uniformly lubricated.

The amount of oil which flows from the globe may be regulated as, occasion may require, by elevating or depressing the valve F, so as to increase or diminish the area between it and its seat, *h*, which elevation or depression is effected by simply rotating said valve either to the right or left.

In the drawings the valve is shown as being located in the upper end of the stem, but it is evident that it may, if preferred, be seated in the lower end of the same.

A modification of our improvement may consist of a cut-off, constructed in the following manner: One or more apertures or slots may be drilled through the sides of the stem C, so as to communicate with the chamber H, near its lower end, and the interior of said chamber may be screw-threaded to receive a plunger or cut-off; and by elevating or depressing said plunger, thereby partially or wholly uncovering said apertures, the oil will be permitted to flow through them in a less or greater quantity.

We claim herein as new and of our invention—

The combination and arrangement, substantially as described, of the globe A *a*, socket B, tubular stem C *c* I D, chamber H *h*, and valve F G *g*, as and for the purpose set forth.

In testimony of which invention, we hereunto set our hands.

TIMOTHY HOLLAND.
JOHN T. CODY.

Witnesses:
GEO. H. KNIGHT,
JAMES H. LAYMAN.