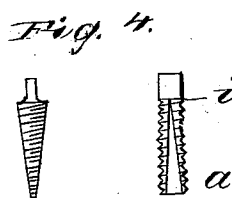
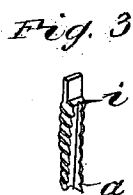
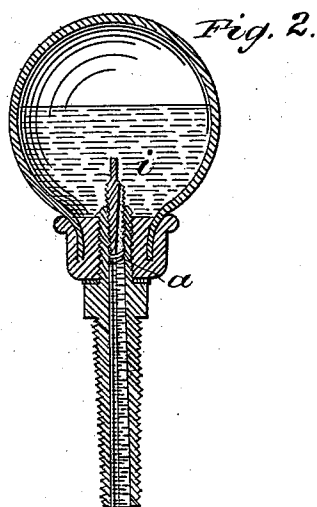
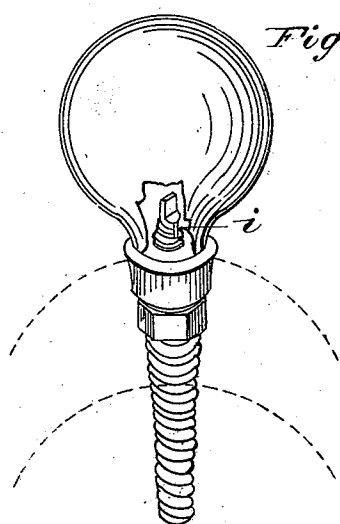


G. Waters,
Lubricator,
N^o 82,368, Patented Sep. 22, 1868.



Witnesses
C. L. Fisher
William R. McCormick

Inventor
G. Waters

United States Patent Office.

G. WATERS, OF CINCINNATI, OHIO.

Letters Patent No. 82,368, dated September 22, 1868.

IMPROVEMENT IN LUBRICATOR.

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, G. WATERS, of Cincinnati, in the county of Hamilton, in the State of Ohio, have invented a new and useful Improvement in Self-Oilers; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference thereon, making part of this specification.

My invention relates to a method of graduating the discharge of oil from a lubricator for shafting and machinery, and consists in providing the tubular conducting-stem or discharge-pipe with a straight, wedge-shaped, or tapering-threaded screw or plug, having a groove or slot in its outside, which groove is made large at its bottom, and diminishing upward, and so terminating at the top that when the same is screwed "home," or as far into the top of the stem as it will go, it shall still not entirely close the orifice in the top of the tube, for it is essential to provide against the liability or even possibility of cutting off the supply of oil altogether, which results often in such disastrous consequences.

A means of nicely and finely graduating the flow of oil is much of a desideratum in very many places; as, for instance, on the wrist-pin of engine-cranks, where, in addition to the ordinary "suction" of rotating bearings, we have the dashing or throwing-motion; as also on shafting and machinery having a sharp vibratory motion.

In the accompanying drawings—

Figure 1 is a view in perspective of my device, with reservoir attached.

Figure 2 is a vertical section of same, showing the screw or plug inserted about half way into the top of stem.

Figures 3 and 4 represent the detached graduating-screw, which is threaded upon its outside to fit the orifice in top of stem, fig. 2, which is tapped upon its inside.

In the side of plug (figs. 3 and 4) is shown the slot or groove, mentioned above, which may be made from the centre of bottom, *a*, and terminating at *i*, at which point the screw is "home," and the aperture in top of stem for passage of oil is very minute.

A good practical size for an ordinary lubricator is represented in the different parts in the drawings.

I claim as new, and desire to secure by Letters Patent of the United States—

A lubricator, constructed with a graduating-screw or plug, in which is formed a gradually-tapering slot or groove for regulating and controlling the discharge of oil, as described.

G. WATERS.

Witnesses:

C. L. FISHER,

WILLIAM R. McCOMAS.