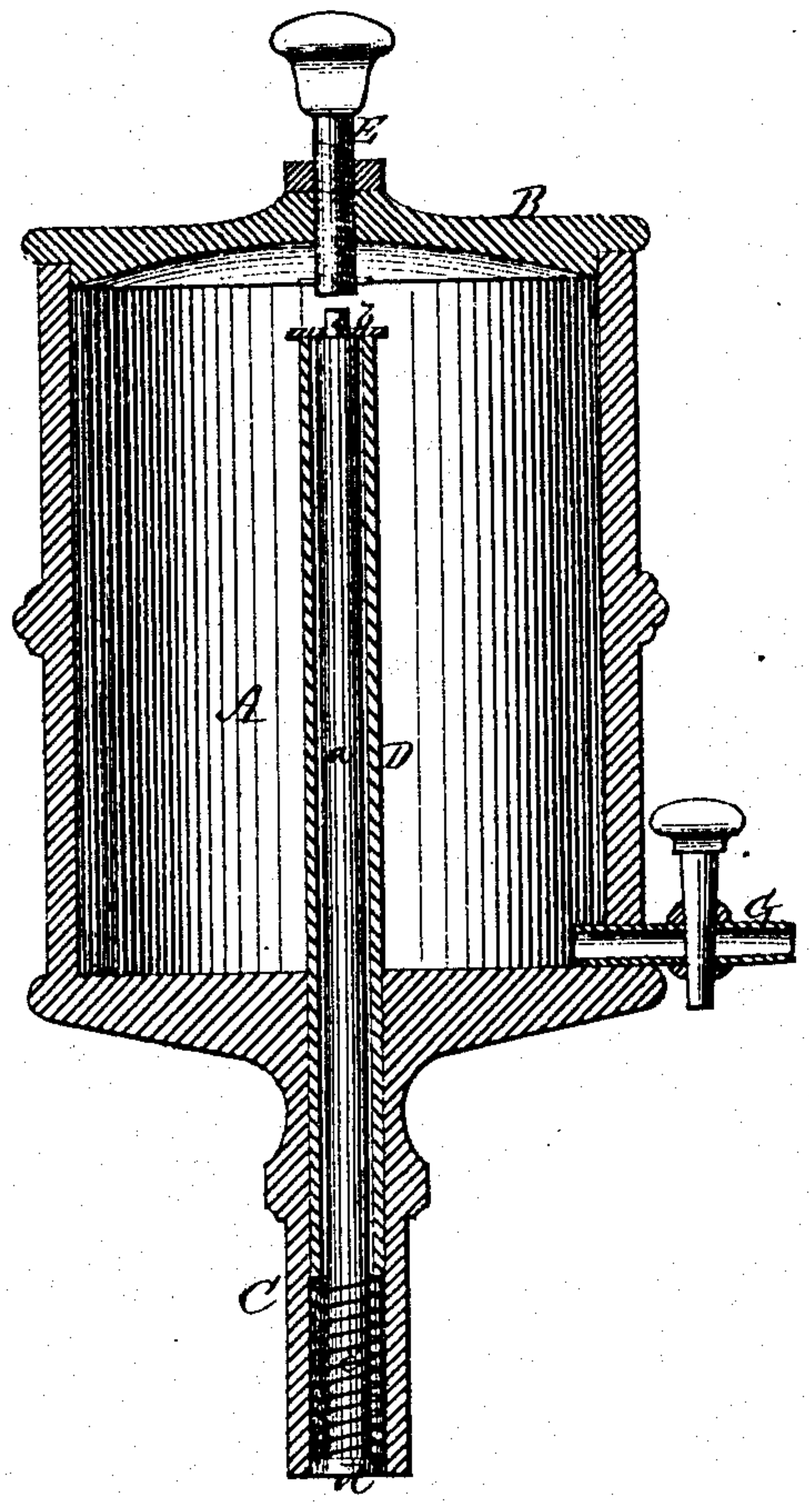
E. McCOY.

Improvement in Lubricators for Steam-Engines.

No. 129,843. Patented July 23, 1872.



Witnesses
John A. Ellis
C. H. Watson

Inventor
Elijah McCoy
per
T. H. Alexander
Atty.

AM. PHOTO-LITHOGRAPHIC CO. N.Y. (OSBORNE'S PROCESS.)

UNITED STATES PATENT OFFICE.

ELIJAH McCOY, OF YPSILANTI, MICHIGAN, ASSIGNOR TO HIMSELF AND S. C. HAMLIN, OF SAME PLACE.

IMPROVEMENT IN LUBRICATORS FOR STEAM-ENGINES.

Specification forming part of Letters Patent No. **129,843**, dated July 23, 1872.

SPECIFICATION.

To all whom it may concern:

Be it known that I, ELIJAH McCOY, of the city of Ypsilanti, in the county of Washtenaw and State of Michigan, have invented certain new and useful Improvements in Lubricators; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon, which form a part of this specification.

The nature of my invention consists in the construction and arrangement of a lubricator for steam-cylinders, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which is represented a longitudinal section.

A represents the oil-cup, provided with the cover B. In the center of the bottom of the cup A is a downward-projecting stem, C, to be screwed into the place where the lubricator is to be used. This stem is hollow, and from the same extends a tube, D, through the center of the cup. Within this tube is a rod, *a*, having a valve, *b*, at its upper end above the tube D to close the same, and at the lower end is a piston or disk, *d*, within the stem C. Around the lower end of the rod *a*, between the piston *d* and a shoulder in the stem, is placed a spiral spring, *e*, which forces the rod down, so that the valve *b* will close the upper end of the tube D and prevent the passage of the oil.

When the steam presses upon the piston the valve rises and allows the oil or other lubricating material used to pass out.

In the cover B is a thumb-screw, E, directly above the valve *b*, by means of which the flow of oil may be readily regulated. At the bottom of the oil-cup is a faucet, G, for the purpose of drawing off the condensed steam when necessary.

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

1. The tube D, rod *a*, and spring *e*, in combination with the valve *b* and thumb-screw E and top B, the several parts being arranged to operate substantially as and for the purpose specified.

2. The stem C, tube D, rod *a*, and piston *d*, in combination with the spring *e*, when the spring is arranged in the stem and between the piston and end of the tube, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I hereby affix my signature in presence of two witnesses.

ELIJAH McCOY.

Witnesses:
S. M. CUTCHEON,
W. R. SAMSON.