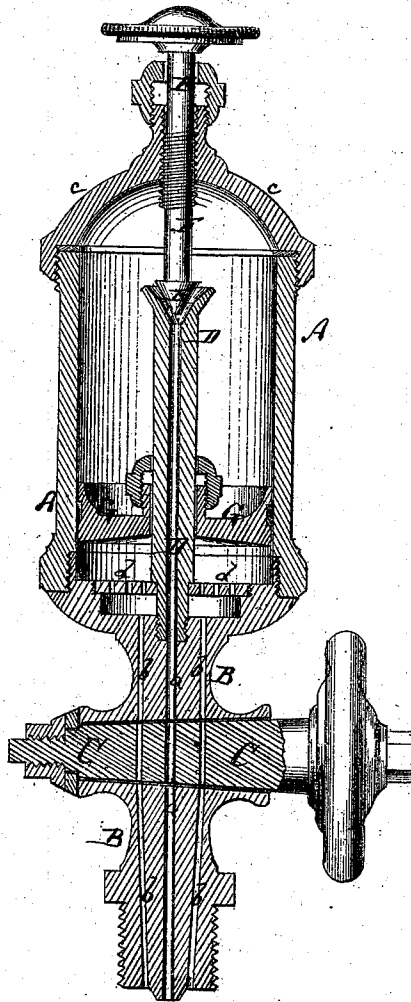


D. Adamson,

Lubricator.

No. 104,400.

Patented June 21, 1870.



Witnesses:

L. S. Mabie
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United States Patent Office.

DAVID ADAMSON, OF BREMEN, GERMANY.

Letters Patent No. 104,400, dated June 21, 1870.

IMPROVEMENT IN LUBRICATORS.

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, DAVID ADAMSON, of Bremen, in Germany, have invented a new and improved 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.

The drawing represents a vertical central section of my improved lubricator.

This invention relates to an improvement in that class of lubricator cups in which a piston is employed to receive steam-pressure, for forcing or coagulating material out of the cup. The present invention is more particularly applicable to locomotives, but may also be used on all other engines.

It consists in providing a steam entrance through the screw-shank of the cup, so that the steam pressure will be applied against the lower side of the piston. The lubricating-material will be forced by such upward pressure into the upper end of a pipe that extends from the upper part of its cup to the lower end of its shank. By this arrangement, I obtain a more even and less forcible action upon the lubricating-material, besides facilitating the application of a valve, for regulating the flow of the same.

A, in the drawing, represents the cup, which is made cylindrical, or of other suitable form.

B is its screw-shank or support, by means of which it is screwed or secured into the machinery to be lubricated.

A cock, C, is fitted through this shank, to regulate two or more longitudinal passages, *a b*, through the same, as shown.

One of these passages, *a*, connects with a pipe, D, which projects from the bottom of the cup A, to near the cover *c* of the same, as indicated in the drawing.

The upper end of the pipe D is funnel-shaped, to receive a valve, E, that is suspended from a screw, F. This screw is fitted through the cover *c*, and well packed.

The other passage or passages, *b*, lead to the perforated bottom *d* of the cup.

G is a piston, sliding in the cup.

The lubricating-material is placed into the cylinder A upon the piston G; then, entering the passages *b*, passes through the bottom *d*, and presses against the under side of the piston, tending to force the lubricating-material out through the pipe D and passage *a*. The area of *a* being smaller than that of *b*, prevents the steam pressure through *a* from being stronger than through *b*, while it does not prevent the steam from coming in actual contact with the lubricating-material, which it helps to melt by its head.

This lubricator can be used in a vertical, horizontal, or inclined position, as may be desired.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

1. The combination, with the cup A, of the passage or passages *b*, and the piston G, sliding on the tube D, substantially as and for the purpose described.

2. The pipe D and passage *a*, provided in the cup A, to operate in conjunction with the piston G and steam-passage *b*, as set forth.

3. The pipe D, secured at its lower end in the screw-shank B, and perforated bottom *d*, and extended up to near top of the cup, and provided with a funnel-shaped mouth, to receive the valve E, as shown and described.

DAVID ADAMSON.

Witnesses:

GEO. W. MABEE,
ALEX. F. ROBERTS.