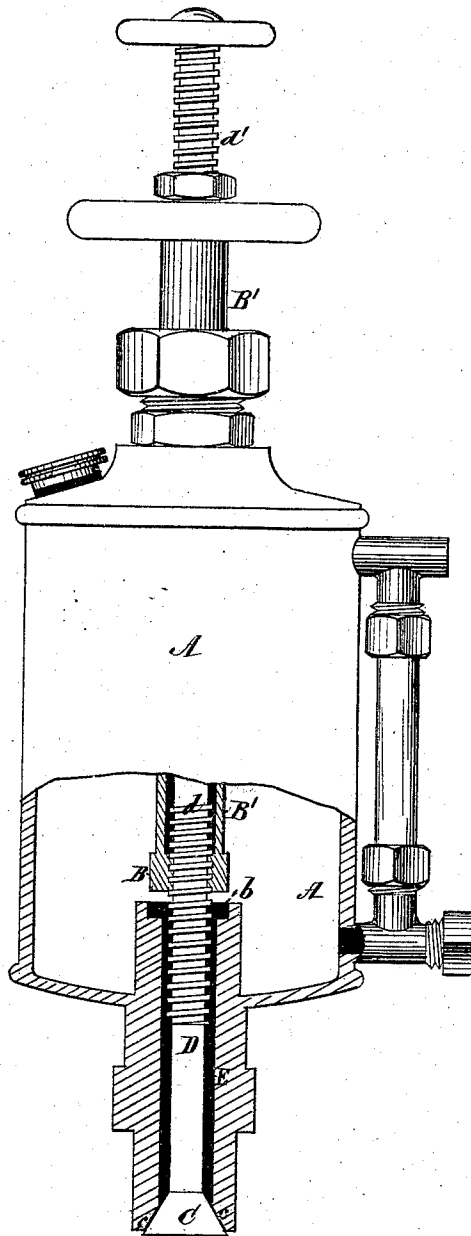


W. A. PRATT.
Lubricators.

No. 143,530.

Patented Oct. 7, 1873.



Witnesses:
G. M. Atkins
John C. Kemmer

Inventor:
William A. Pratt
Per *Wm. A. Pratt*

Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM A. PRATT, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN LUBRICATORS.

Specification forming part of Letters Patent No. **143,530**, dated October 7, 1873; application filed August 26, 1873.

To all whom it may concern:

Be it known that I, WILLIAM A. PRATT, of Baltimore city, State of Maryland, have invented a new and useful Improvement in Lubricators; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification, in which the figure is a side elevation, partly broken out.

The invention relates to the upper valve of a double-valved piston-rod, such as are used upon lubricators of steam-engines; and consists in a novel mode of applying the said valve on a sleeve that works over the piston-rod, as hereinafter described and claimed.

A represents the oil-reservoir of a locomotive-lubricator, and B C the inlet and outlet valves, which fit, respectively, into their seats *b c*, and are attached to the same rod D. These are so connected with a steam-engine that when steam is acting upon the piston during one of its reciprocations the valve C is closed and the valve B opened. The oil now flows from reservoir A into a supply-chamber, E, situated between the two valves.

When the piston reaches the end of its throw the steam is exhausted and a vacuum created, while the valve C is drawn from its seat, and the oil in supply-chamber E allowed to flow out to lubricate the engine.

This general idea, or the means stated, forms no part of my invention. The rod D has been heretofore made to terminate with each valve, and to be formed in one piece with, or at least rigidly attached to, each valve. I prolong the rod D beyond the upper valve until it extends through the top of the reservoir, and place the valve B upon a sliding sleeve, B', whereby I can not only take up wear in either valve, but also can graduate with much accuracy the quantity of oil fed from the reservoir A, and consequently to the engine, at each reciprocation of the piston.

This sleeve may be moved by means of a screw-thread, *d*, working in a corresponding one of nut, or by a screw-thread, *d'*, working in one of the sleeves B'; or it may be moved by any other suitable device.

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

In a lubricator, the combination of the valve-rod D, sliding and adjustable sleeve B', having upper valve B, valve-seat *b*, and supply-chamber E, substantially as and for the purpose set forth.

WM. A. PRATT.

Witnesses:

WILLIAM T. MALSTER,
K. HAMILTON SCHULTZ.