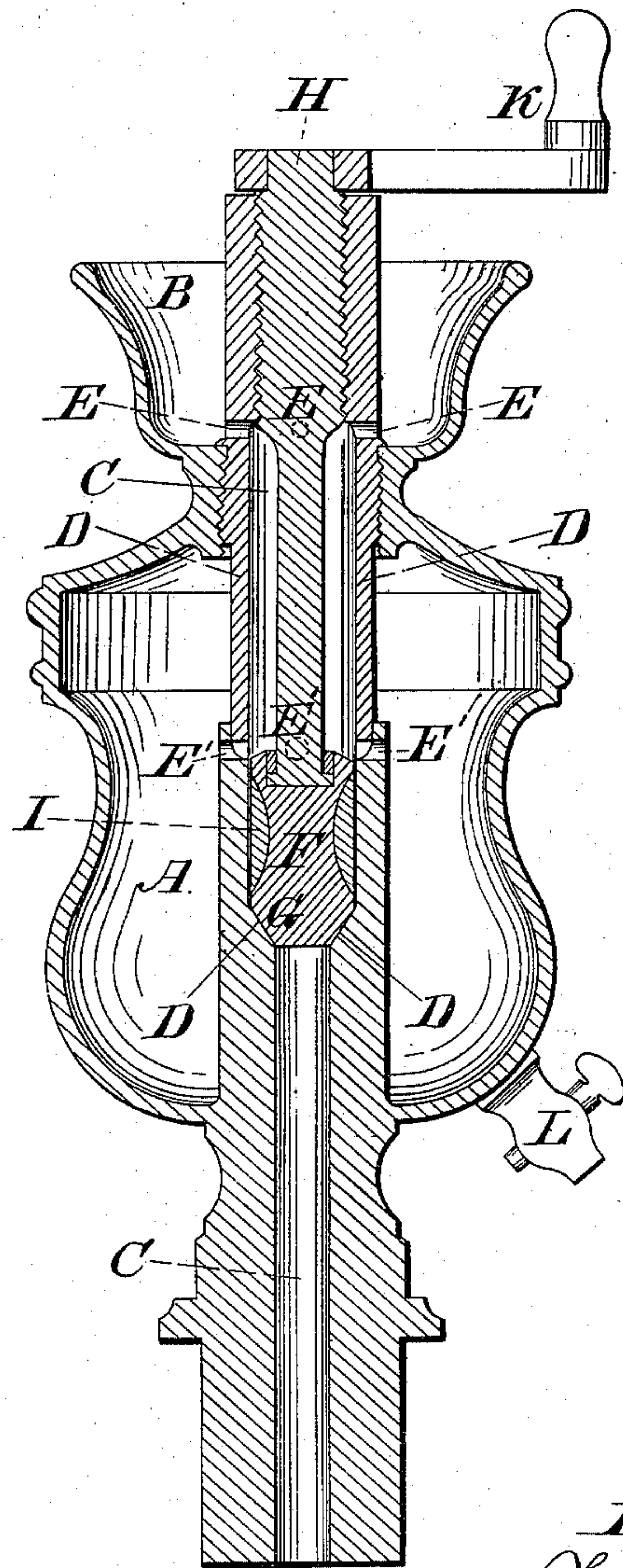


T. W. GODWIN.
LUBRICATOR.

No. 43,305.

Patented June 28, 1864.



Witnesses:

W. Ramsdell
de Sorms

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UNITED STATES PATENT OFFICE.

THOMAS W. GODWIN, OF PORTSMOUTH, VIRGINIA.

IMPROVEMENT IN LUBRICATORS.

Specification forming part of Letters Patent No. 43,305, dated June 28, 1864.

To all whom it may concern:

Be it known that I, THOMAS W. GODWIN, of Portsmouth, in the county of Norfolk and State of Virginia, have invented a new and useful Improvement in Lubricators; and I do hereby claim that the following is a full and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

The object of my invention is the introduction of oil or any lubricating substance into the interior of cylinders and other parts of a steam-engine against or in spite of the pressure of steam, and in such a manner that the steam will not escape during its admission. This I accomplish by the construction of a lubricator, as shown in the accompanying drawing.

A is the reservoir for containing the oil.

B is the feeding-cup.

C C is a cylinder, formed of one or more sections, and is constructed with valve-seats at D D and orifices at E' E'.

F is a double-valved piston with valves at G G.

H is a piston-rod for raising and lowering the piston on the valve-seats, and is attached to the piston by means of a swivel. This piston-rod is constructed with a thread, which works in a thread in the cylinder above the upper valve-seat.

I is the packing on the piston to prevent the steam and lubricating substance from escaping while the piston is being moved from one valve-seat to the other. The piston F is moved from one valve-seat to the other by

turning the piston-rod, which is done by means of the crank K.

L is an escape-cock for drawing off the water produced by the condensation of steam in the reservoir.

The mode of operating this lubricator is as follows: Turn the crank K to the right until the double-valved piston F is forced down on the lower valve-seat. Open the waste cock and allow any water that may be in the reservoir to escape. Then close the waste-cock and pour the lubricating-oil into the feeding-cup B, which will run into the reservoir through the orifices E E E in the cylinder. Turn the crank K to the left, which will raise the double-valved piston to the upper valve-seat, when the steam will rush up and fill the space above the lubricating substance in the reservoir, where it is condensed, and the water thus produced, being heavier than the lubricating-substance, sinks to the bottom of the reservoir, and gradually raises it up to the orifices E' E' E' in the cylinder, through which it passes to the parts to be lubricated.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The double-valved piston F, in combination with the tube or cylinder C C.

2. The manner of supplying the reservoir A with the lubricating-oil by the action of the piston F, in combination with the cylinder C C and the orifices E' E' E', as set forth and described.

Witnesses: THOS. W. GODWIN.

H. J. RAMSDELL,

CHARLES HERON.