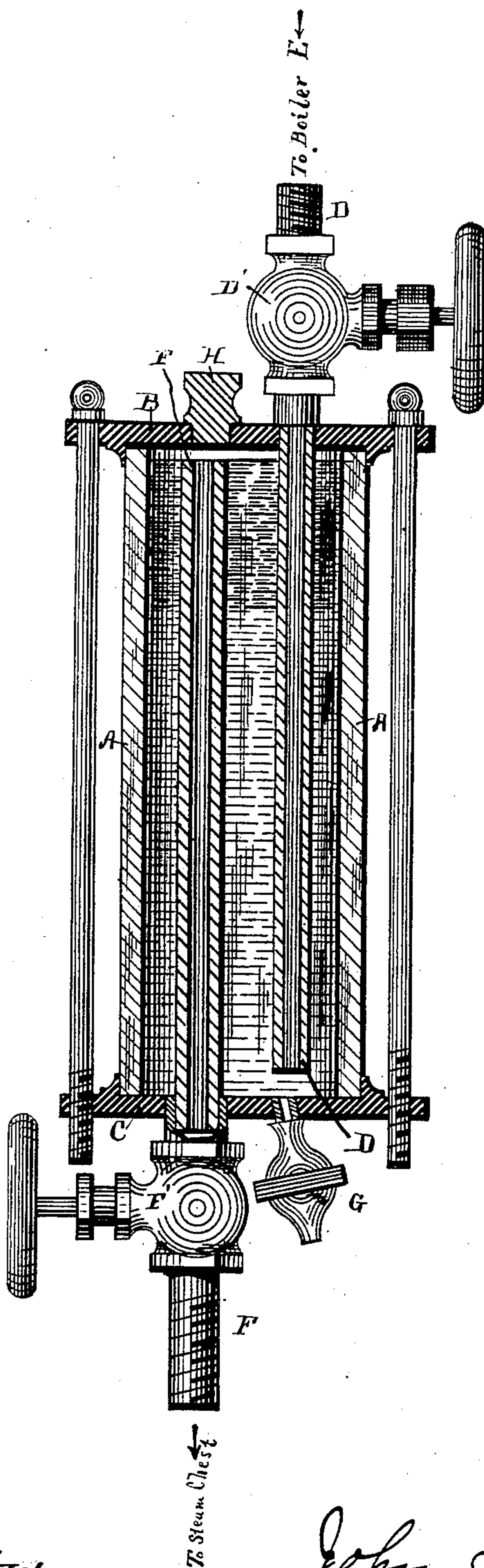


J. SMITH.  
Lubricator.

No. 223,015.

Patented Dec. 30. 1879.



WITNESSES

Frank M. Faber.  
W. G. Bonnelly

INVENTOR

John Smith  
By Leggett & Leggett ATTORNEYS.

# UNITED STATES PATENT OFFICE.

JOHN SMITH, OF CLEVELAND, OHIO, ASSIGNOR TO HIMSELF AND CASSIUS  
B. CLARK, OF SAME PLACE.

## IMPROVEMENT IN LUBRICATORS.

Specification forming part of Letters Patent No. **223,015**, dated December 30, 1879; application filed  
October 6, 1879.

*To all whom it may concern:*

Be it known that I, JOHN SMITH, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Lubricators; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawing, which forms part of this specification.

My invention relates to lubricators; and it consists in the following construction and combination of parts, as hereinafter specified and claimed.

In the drawing is represented a longitudinal vertical section of a device according to my invention.

In the said drawing, A is the chamber, which may consist of metal or glass. B is an upper cap-piece, and C a lower cap-piece fitted upon the chamber A. D is a pipe leading from the steam-boiler E, and opening near the bottom and inside of the chamber A. F is a pipe or conduit leading from the steam-chest or journal to be oiled up through the lower cap, C, to the interior of the chamber A, and opening in the upper part of said chamber A.

The pipe D may be called the "water or force pipe," and the pipe F the "oil or feed pipe." Each pipe D and F is provided with valves D' and F'.

G is a vent-cock tapping the lower end of the chamber A, through which the contents of the chamber may be emptied.

H is a removable plug in the upper cap, B. By removing this plug an opening is provided, through which oil may be poured into the chamber A.

In operation the parts are placed substantially in the relation and position indicated in the drawing; and the function of my device is as follows: Oil can only escape from the chamber A through the pipe F, and water can only find entrance to the chamber A through the pipe D. As water is injected into the chamber through the pipe D oil will be discharged in a proportionate amount through the pipe F and to the part to be oiled.

I do not consider to be my invention, broadly considered, the idea of placing oil and water together in a single chamber and displacing and feeding said oil by the introduction of water of condensation or otherwise, as I am aware that devices performing upon this principle have been heretofore employed.

I am not aware, however, of any device wherein the chamber A, containing the oil and water, has the two pipes D and F, the former coming from the steam-boiler and opening into the lower portion of the chamber A, and the latter passing through the lower portion of the chamber A and opening at the upper portion of the said chamber. This exceedingly simple construction I have found to be very effective; and my invention resides in the construction described.

Instead of the pipe F entering the lower part of the chamber A and opening at its upper portion, the upper portion of said pipe may be attached to the chamber A at any suitable point above the water-level, preferably near the upper portion of the chamber, and the pipe led from this vicinity to the part to be lubricated.

It is, of course, understood that I do not confine myself to the use of oil. Any fluid lubricant whatever may be employed, at pleasure.

What I claim is—

A lubricator wherein is combined the chamber A, containing oil and water, the pipe D, leading from the steam-generator, entering the chamber A at its upper portion and opening at the lower portion of said chamber, and the pipe F, entering the lower part of said chamber A and opening at its upper part, substantially as and for the purposes shown.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN SMITH.

Witnesses:

JNO. CROWELL, Jr.,  
WILLARD FRACKER.