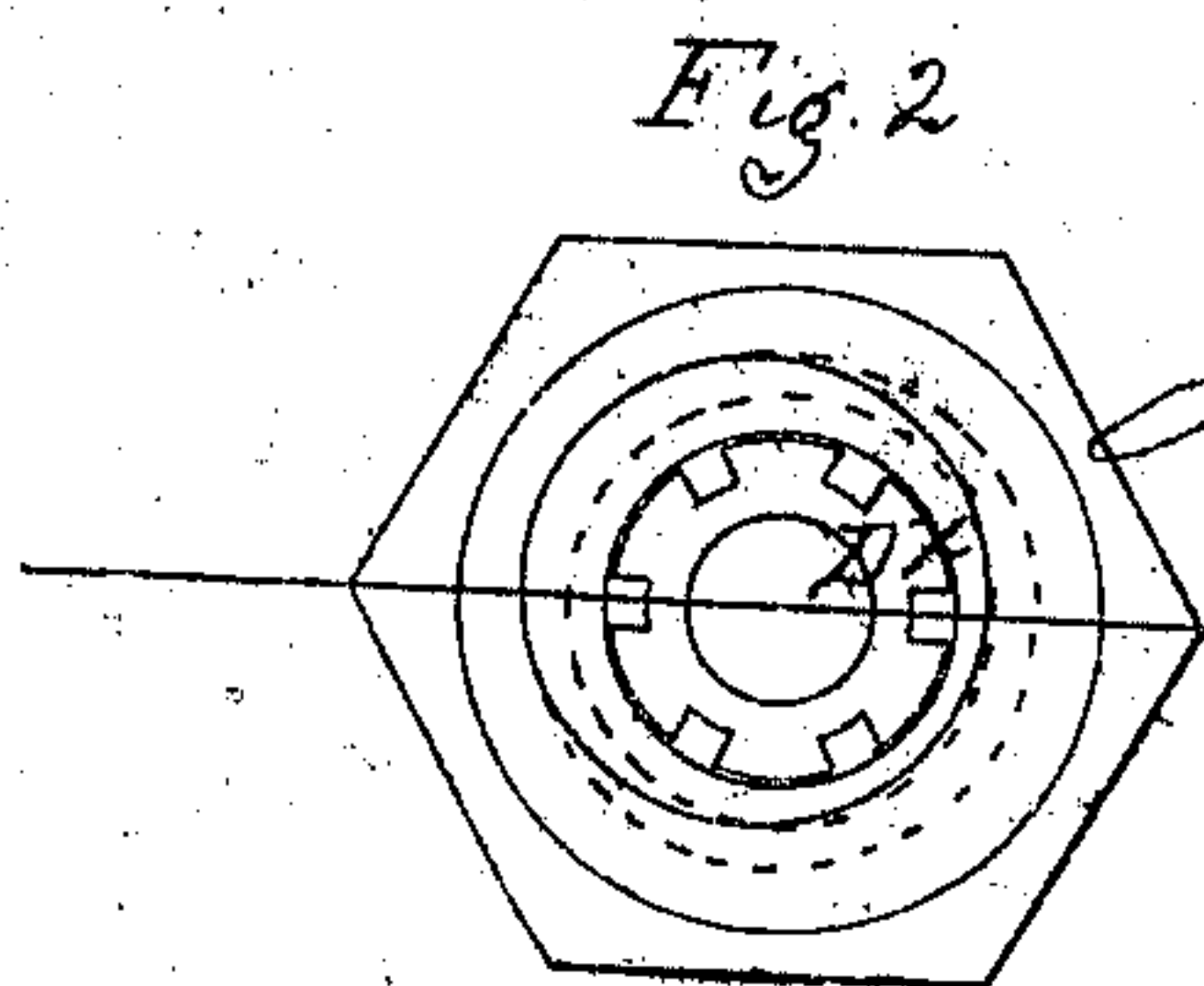
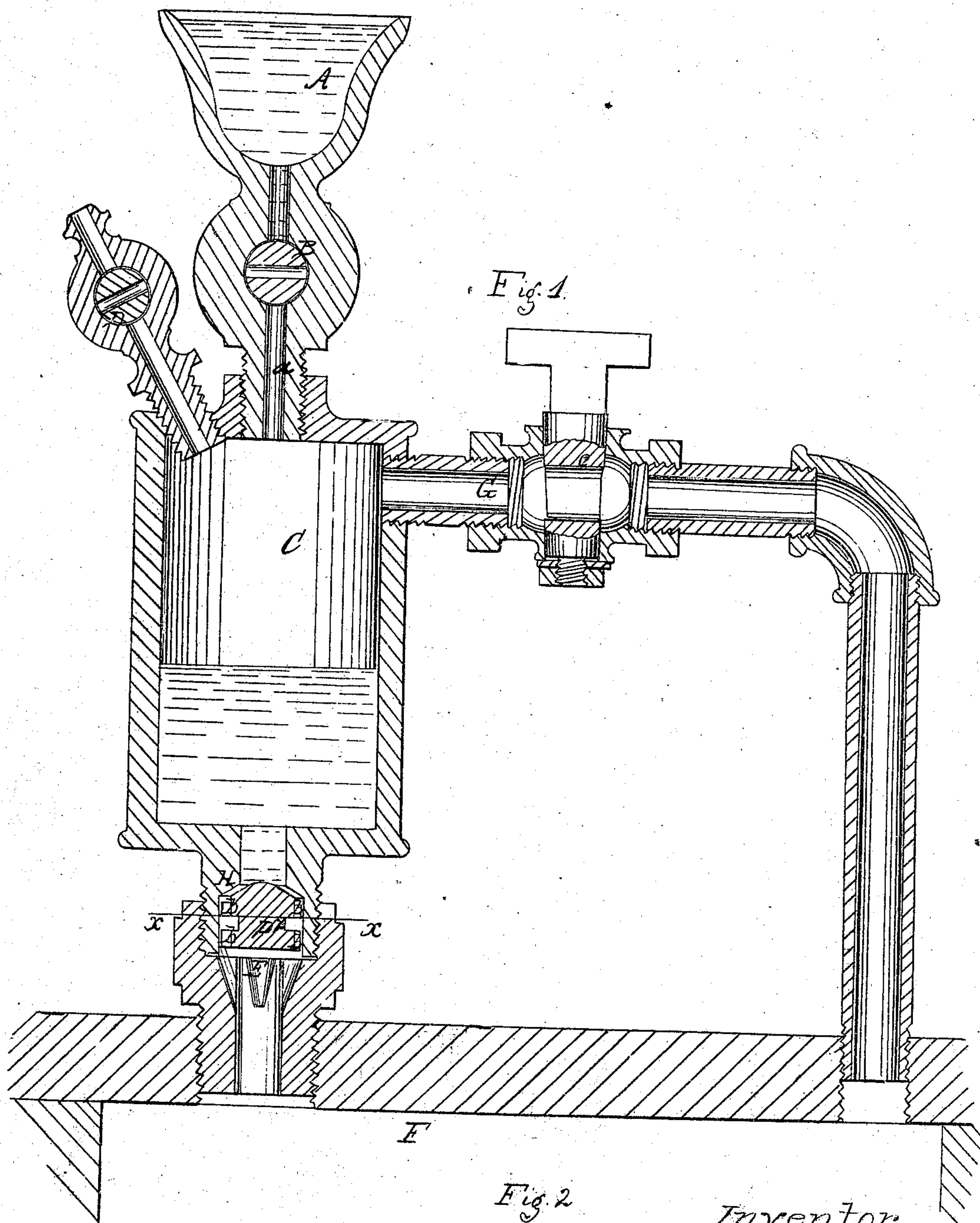


John Nation,
Lubricator.

N^o 75,958.

Patented Mar. 24. 1868.



Witnesses
Thos. Trushe
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United States Patent Office.

JOHN NATION, OF PORTLAND, OREGON, ASSIGNOR TO HIMSELF AND
ABSALOM B. HALLOCK, OF THE SAME PLACE.

Letters Patent No. 75,958, dated March 24, 1868.

IMPROVEMENT IN STEAM-ENGINE 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, JOHN NATION, of Portland, Multnomah county, Oregon, have invented a new and useful Mode of Injecting Oil or Tallow into Steam-Cylinder Chests and Steam-Cylinders for Lubricating Purposes; 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 drawings, forming part of this specification.

My invention consists in admitting oil or tallow into a proper receptacle, and in applying steam to force the oil or tallow into the steam-cylinder chest or steam-cylinder. In the accompanying sheet of drawings—

Figure 1 is a vertical central-section of my invention.

Figure 2, a horizontal section of the same, taken in the line xx , fig. 1.

Similar letters of reference indicate corresponding parts.

A represents a cup, in which the oil or tallow is placed, and B a cock, which, when opened, allows the oil or tallow to flow into cylinder C through the passage a . D is a cock, applied to the cylinder C to serve as a vent; said cock, when open, allowing the air to escape from cylinder C as the oil or tallow flows into it. At the bottom of the cylinder C there is a valve, D^x , closing upward against a seat, H, and it is corrugated at its outer edge, as shown at b , to admit of the flow of oil or tallow from cylinder C. This valve, D^x , when forced down and opened by the pressure of steam in C, rests upon a slotted perforated seat, E, through which the oil or tallow passes from C into steam-cylinder chest F. G represents a steam-pipe, provided with a cock, c . This pipe communicates with the cylinder C and the steam-cylinder chest F, to admit steam into C when necessary.

The operation is as follows: The oil or tallow is placed in the cup A, the latter being always kept supplied with it; that, at least, would be preferable. The cock D is opened, and also the cock B, and the oil or tallow flows from A into cylinder C. The cocks D B are then closed, and the steam-cock c opened, and the pressure of the steam on the oil and tallow will force the same downward, and also the valve D^x , the latter resting on the slotted perforated seat E, and the oil and tallow passing down through the corrugated edge of D^x , and the slotted perforated seat E, into the steam-cylinder chest F. By turning the steam-cock c , so as to shut off the steam from C, the pressure of the steam in F will raise the valve D^x against the upper seat H, and close the communication between C and F, D being opened, if necessary, for steam to exhaust from C.

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

1. The valve D^x , having corrugations b , the slotted seat E, constructed and arranged to operate as herein described.
2. The arrangement of the oil-cup A with the cocks B D, cylinder C, steam-pipe G, cock c , corrugated valve D^x , upper seat H, and slotted lower seat E, as herein described.

Witnesses:

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