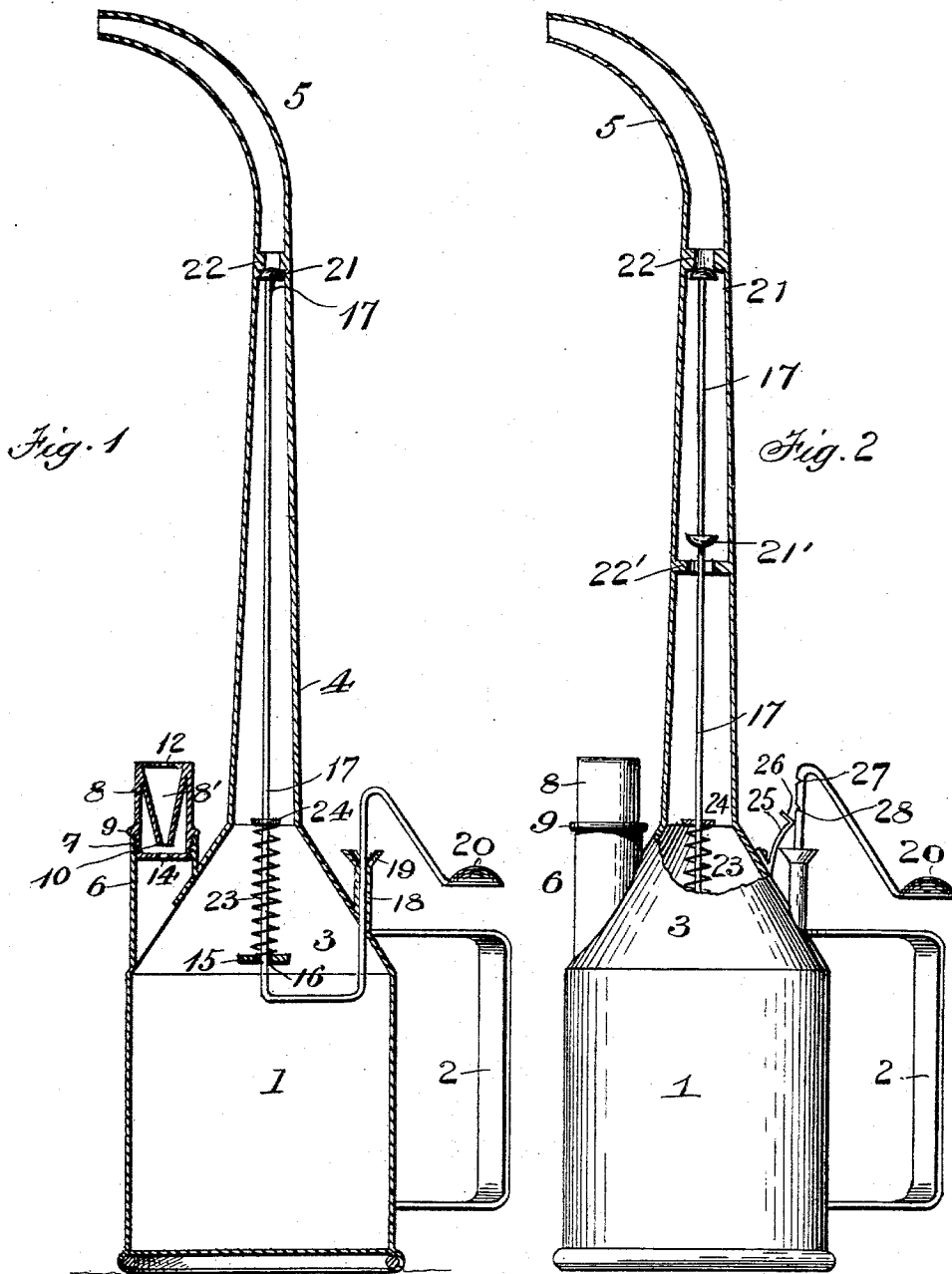


(No Model.)

F. YOUNG.
LOCOMOTIVE VALVE OILER OR CAN.

No. 565,129.

Patented Aug. 4, 1896.



Witnesses.

F. L. Orourke.
A. J. Smith.

Inventor

Frederick Young.

By *J. A. R. Young.*

Attorney

UNITED STATES PATENT OFFICE.

FREDERICK YOUNG, OF CHICAGO, ILLINOIS.

LOCOMOTIVE VALVE OILER OR CAN.

SPECIFICATION forming part of Letters Patent No. 565,129, dated August 4, 1896.

Application filed May 9, 1896. Serial No. 590,906. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK YOUNG, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Locomotive Valve-Oilers or Cans; and I do 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 appertains to make and use the same.

My invention has relation to locomotive valve-oilers, and more particularly to that class of valve-oilers or oil-cans used by locomotive-engineers or engine-drivers, and the object is to provide a simple and convenient device of this kind; and to this end the novelty consists in the construction, combination, and arrangement of the several parts of the same, as will be hereinafter more fully described, and particularly pointed out in the claim.

In the accompanying drawings, the same figures of reference indicate the same parts of the invention.

Figure 1 is a vertical sectional elevation of my improved engine-driver's oil-can, and Fig. 2 is a similar view of a modification of the same.

1 represents the body of the can, and while it is preferably cylindrical in shape, it may be made in various sizes to suit the wants of the trade. The body portion is provided with the usual handle 2, and a conical dome 3, surmounted by an elongated tubular spout 4, terminating in a contracted curved end 5.

6 is the filling-tube, and its mouth is formed with a female thread 7, in which is removably secured the screw-cap 8, which is provided with a collar or flange 9, which forms a joint with the mouth of the filling-tube. This cap 8 is provided with an internal inverted cone-shaped diaphragm 8', rigidly secured therein, and it is formed with an air-vent 10 in its apex, and a similar air-vent 12 in its base, which is the top of the cap. The mouth of the cap is formed with a circular diaphragm 13, in the center of which is an air-vent 14. These vents allow the outside air to enter the can to supply the space caused by the withdrawal of the oil, and at the same time, when the oiler or can is inverted or tilted when in

use, the small amount of oil, if any, that would escape through the vent 14 would fall by gravity into the chamber or space between the inner walls of the cap and the outside of the cone and is prevented from leaking out through the vents 10 and 12, and when the oiler is again restored to its upright position, the oil contained in the cap will flow by gravity back into the body of the can.

15 is a cross-brace secured in the inside of the base of the conical dome 3, and it is provided with a central orifice 16, which forms a guide for the lower end of the valve-stem 17, which passes through said brace and extends radially a short distance, where it is bent upwardly parallel to the main stem, passing snugly through a sleeve 18 a short distance outside of the can. It is then bent at a suitable inclination downwardly, and its extreme end is provided with a thumb-button 20 in convenient reach of the handle 2.

19 is a small funnel-shaped mouth to the sleeve 18 and serves to catch and return any oil that may escape between the stem and the sleeve.

The opposite end of the valve-stem extends upwardly inside of the spout, and terminates in a valve 21, which opens inwardly, and its face is normally in contact with a circular valve-seat 22, located in the inside of the spout. From this construction it will readily be seen that when the can is grasped by the handle 2 and inverted, and the thumb-button 20 pressed down, the valve 21 is opened and the oil permitted to flow freely from the curved end 5 of the spout 4, and while still in this position, if the thumb-button be released, the spiral spring 23, located on the stem and confined between the brace 15 and a rigid collar 24 on the stem, will immediately close the valve 21 and stop the flow of oil, and after the valve is closed, by allowing the oil contained in the spout above the valve to run out, there will then be no surplus or dripping waste oil about the spout or can.

In the modification I have shown the stem 17 provided with two valves 21 21' and two seats 22 22', so that when one is opened the other is closed, thus allowing a certain predetermined amount of oil to escape each time the thumb-button 20 is pressed, and 25 is a

flat spring secured on the outside of the can, the angular end 26 of which is in the path of two ratchet-shaped notches or recesses 27 28 on the vertical portion of the valve-stem outside of the can, and as the thumb-button is pressed down when the spring strikes these recesses, it gives forth an audible click, the first one, 27, signifying that both valves are open and the oil is running uninterruptedly through the spout; the second click, 28, that the lower valve is closed, the top one open, and only the exact amount of oil contained in the spout between the two valves is being permitted to escape.

15 Although I have specifically described the construction and relative arrangement of the several elements of my invention, I do not desire to be confined to the same, as such changes or modifications may be made as clearly fall

within the scope of my invention without departing from the spirit thereof.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

The body 1, provided with the spout 4 and filling-tube 6 and its cap 8, constructed substantially as described, in combination with the valve-stem 17 formed with the recesses 27 28, the spring 25, and the valves 21, 21', substantially as and for the purpose set forth.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

FREDERICK YOUNG.

Witnesses:

JOHN T. MURRAY,
MILES KEHOE.