

No. 879,600.

PATENTED FEB. 18, 1908.

P. J. SWEENEY.
LUBRICATOR.

APPLICATION FILED FEB. 11, 1907.

Fig. 1.

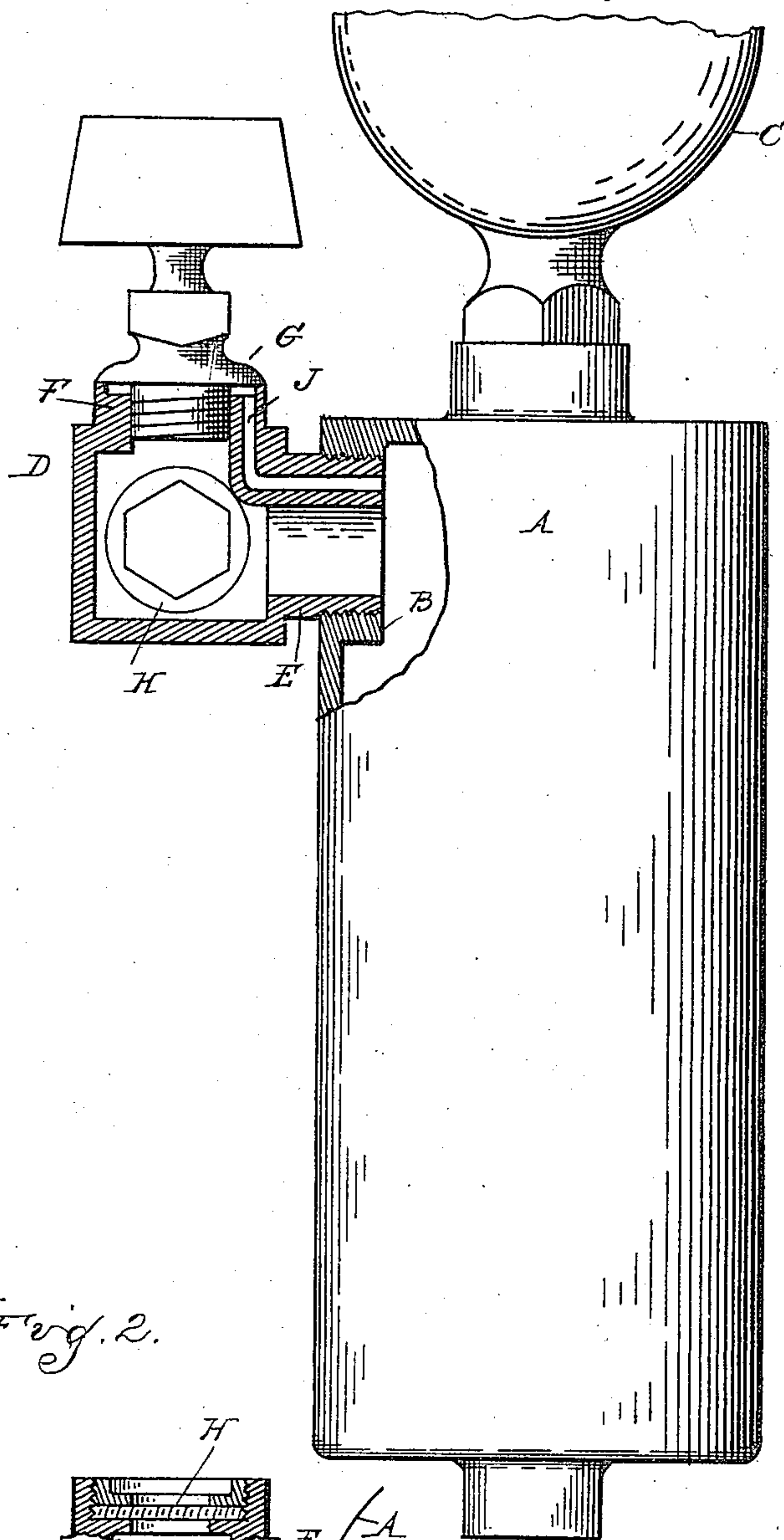
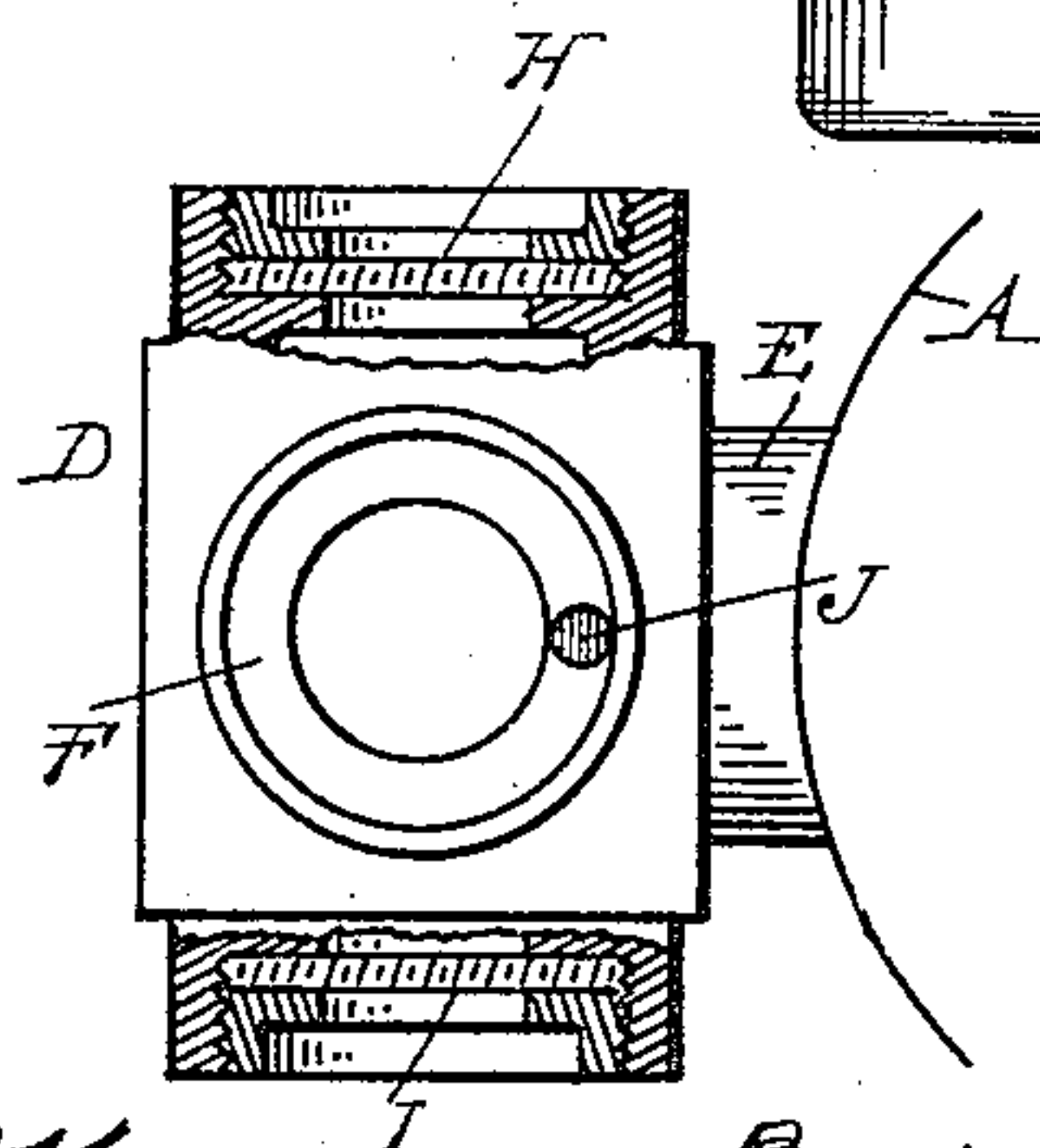


Fig. 2.



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UNITED STATES PATENT OFFICE.

PETER J. SWEENEY, OF WINDSOR, ONTARIO, CANADA, ASSIGNOR TO PENBERTHY INJECTOR COMPANY, LIMITED, OF WINDSOR, CANADA, A CORPORATION OF CANADA.

LUBRICATOR.

No. 879,600.

Specification of Letters Patent.

Patented Feb. 18, 1908.

Application filed February 11, 1907. Serial No. 356,925.

To all whom it may concern:

Be it known that I, PETER J. SWEENEY, a citizen of the United States of America, residing at Windsor, in the Province of Ontario and Dominion of Canada, have invented certain new and useful Improvements in Lubricators, of which the following is a specification, reference being had therein to the accompanying drawings.

10 The invention relates generally to lubricators, and more particularly to a fill cup therefor, and the invention consists in the novel and peculiar construction of the fill cup and in the arrangement and combination of its various parts, as will be more fully hereinafter set forth.

In the drawings,—Figure 1 is a view in elevation of a lubricator, partly broken away, showing the fill cup in section; and 20 Fig. 2 is a sectional plan view of the cup.

The reference letter A designates a lubricator reservoir of any approved construction, having a lateral inlet port or opening B near its top, and C is the usual condenser.

25 D represents the fill cup through which oil is supplied to the reservoir, the device being preferably a combined fill cup and gage, as hereinafter set forth.

As shown, the cup is provided with a lateral tubular extension E, externally threaded to be detachably arranged within the internally threaded inlet B, and is further provided with a tubular extension F at its top, internally threaded to receive a threaded plug cap G. The cup is shown as 35 arranged below the top of the reservoir, and is provided at a point opposite its transverse section E with oppositely-disposed sight-glasses H and I, by means of which the amount of oil in the lubricator may be determined.

To permit of the ready filling of the oil reservoir, a vent conduit J is employed, formed preferably in the upper wall of the transverse section E and the adjoining wall 45 of the extension F, and leading from the interior of the reservoir to a point in the fill cup near its closure, but preferably spaced therefrom.

In the operation of filling the reservoir, 50 oil is poured into the cup and passes from thence into the cylinder A, the air within the reservoir passing out during the operation of filling through the vent J. As soon as the oil reaches the reservoir inlet, the cup D is 55 filled simultaneously with the reservoir until the oil in the latter reaches a point above its inlet, when the gage indicates that the reservoir is filled.

As previously set forth, the cup performs 60 the double function of a fill arm and a gage, and by providing a vent such as described the filling of both the reservoir and the cup,—for the purpose of indicating the reservoir contents,—is accomplished. 65

The vent conduit described may, if desired, project upwardly a sufficient distance to be sealed by the cap G, but it is preferably of the construction shown, wherein a space is provided between the upper end of the conduit and the cap. This forms a communication between the closed fill cup and the interior of the reservoir, permitting a circulation of the oil between the cup and reservoir, thus aiding materially in maintaining the oil level 75 in the two receptacles during the operation of the lubricator.

What I claim as my invention is,—

1. In a lubricator, the combination with the oil cup or reservoir, of a fill cup having 80 communication with the reservoir at its upper end, a cap closing the fill cup, and a vent conduit within the cup independent of the oil passage, leading from a point in proximity to the cap into the reservoir. 85

2. In a lubricator, the combination with an oil reservoir, of a fill cup therefor, and a vent conduit between the cup and reservoir independent of the oil passage therebetween.

In testimony whereof I affix my signature 90 in presence of two witnesses.

PETER J. SWEENEY.

Witnesses:

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