G. B. BRYANT.

LUBRICATOR.

No. 176,422 Patented April 25, 1876.

Fig. 1.

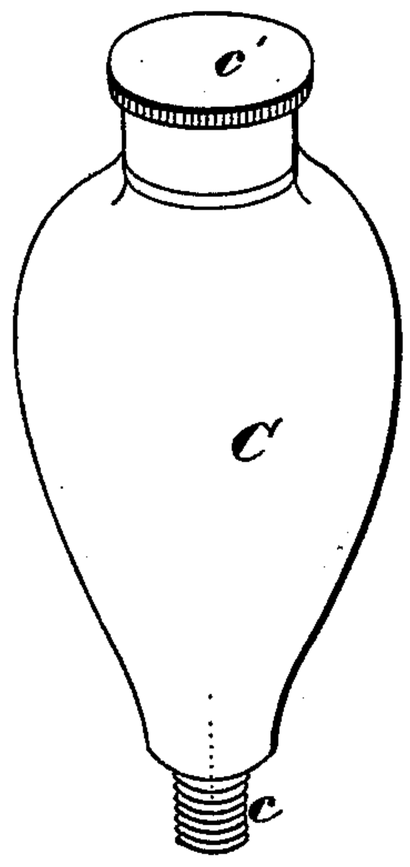
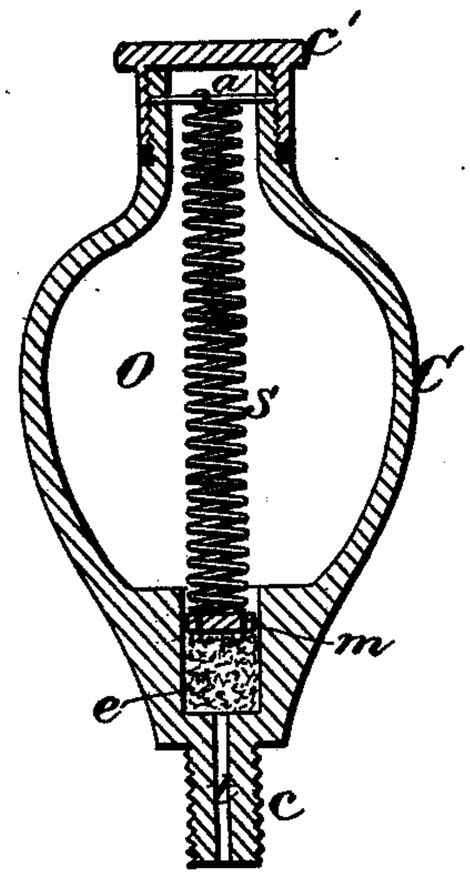


Fig. 2.



WITNESSES

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GEORGE B. BRYANT, OF POTTSVILLE, PENNSYLVANIA.

IMPROVEMENT IN LUBRICATORS.

Specification forming part of Letters Patent No. **176,422**, dated April 25, 1876; application filed November 12, 1873.

To all whom it may concern:

Be it known that I, GEORGE B. BRYANT, of Pottsville, in the county of Schuylkill and State of Pennsylvania, have invented a new and Improved Lubricator; and I do hereby declare the following to be a full and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a perspective view, and Fig. 2 is a vertical section.

Similar letters of reference in the accompanying drawings denote the same parts.

This invention is an improvement upon my car-wheel lubricator patented October 31, 1871, No. 120,489, and is designed to extend the application of the principles of construction therein shown to independent attachable and detachable oil-cups for all kinds of machinery.

To this end, my present improvement consists in the new article of manufacture herein shown, having the spring-follower, fibrous material, and oil-reservoir, combined with a small attachable and detachable cup, substantially as I will now proceed to describe.

In the drawings, C is the oil-cup, made of glass, metal, or other suitable material, having an oil-reservoir within it, a screw-stem, *c*, at its lower end, and a screw-cap, *c'*, suitably packed, at its upper end. In the recess at the lower end of the oil-chamber is a small quantity of cotton-waste, sponge, or other fibrous material, *e*, upon which a perforated plate, *m*, which may form a part of the spring, if preferred, is preserved by a spring, *s*, which may be held in place by the screw-cap *c'*, or by a small cross-bar or plate, *a*, which may be adjustable for the purpose of increasing or diminishing the pressure of the spring.

The oil flows from the chamber O to the journal through the sponge *e* and outlet *t'*, its delivery being in inverse ratio to the pressure of the spring *s* upon the sponge.

This pressure is to be carefully adjusted, so that when the machinery is at rest, and the oil-cup is not jarred, the steady pressure of the spring upon the sponge will prevent the oil from flowing out at all; but when the machinery is in motion, and the oil-cup subject to being jarred thereby, the vibration of the spring will allow some portion of the oil to work under the plate *m* into the sponge, and thence through the aperture *t* onto the journal.

The device is especially adapted for use in connection with common road-carriages, coal-cars, locomotives, and other vehicles and machinery having sufficient vibration to operate the spring *s*, as described.

Having thus set forth the nature of my invention, I claim—

As an improved article of manufacture, an attachable and detachable lubricator, constructed with the cup C, chamber O, outlet *t*, fibrous substance *e*, plate *m*, spring *s*, screw-stem *c*, and cap *c'*, all combined substantially as described.

GEORGE B. BRYANT.

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