

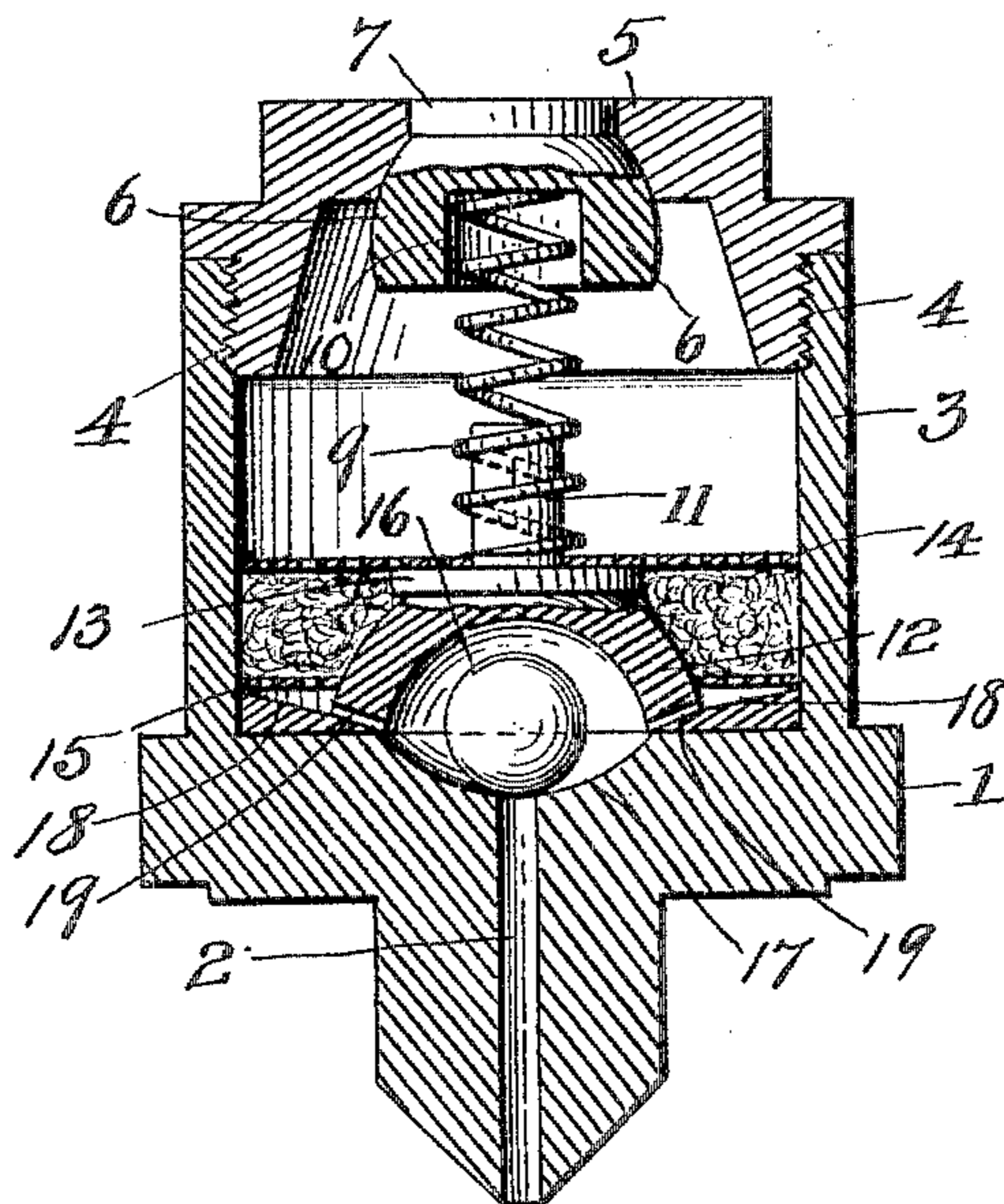
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PATENTED NOV. 14, 1905.

L. GLEASON.

OIL CUP.

APPLICATION FILED SEPT. 2, 1905.



Witnesses

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LEWIS GLEASON, OF FRANKLIN, PENNSYLVANIA, ASSIGNOR TO GALENA-SIGNAL OIL COMPANY, OF FRANKLIN, PENNSYLVANIA.

OIL-CUP.

No. 804,655.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, LEWIS GLEASON, a citizen of the United States, residing at Franklin, in the county of Venango and State of Pennsylvania, have invented new and useful Improvements in Oil-Cups, of which the following is a specification.

My invention relates to improvements in lubricators; and its object is to provide an oil-cup whereby a spring-pressed inlet-closure is provided and is adapted to cooperate with means confining and guiding a cut-off valve, whereby a very simple construction of few parts may be provided and the said parts held in position by the pressure of a single spring.

My improvements are adapted to be applied to an oil-cup particularly adapted for use on mechanisms receiving sufficient momentum to move the ball-valve which effects the cut-off, as above referred to, and particularly to such parts as cross-head guides on locomotives and other parts which may have a jarring motion and also motor-bearings to trolley-cars, &c.

My invention is embodied in the device shown and illustrated in the accompanying drawing, which drawing represents a central vertical section of my improved oil-cup.

In the drawing, 1 is the base of the oil-cup, adapted to be mounted upon the part to be lubricated and communicating with said part by a central channel or passage-way 2. From this base 1 rises a cylindrical wall 3, forming the chamber of the oil-cup and provided near its upper end with interior screw-threads 4, by which a screw-cap 5 is adapted to be secured to the upper end of the cup. In the central portion of this cap is a sliding plug-valve 6, having an upper disk portion 7 closely fitting the inner wall of the cap 5 and having a curved or semispherical body also closely conforming to the correspondingly-curved interior of the cap, whereby the inlet through the cap and the oil-containing chamber of the body is kept tightly closed when the valve is in its extreme upper position. The valve is kept pressed to such position by a coiled spring 9, having its upper end seated within a recess 10, formed in the body of the valve 6, and having its lower end surrounding and supported by a stud 11, rising from and form-

ing part of a ball-cage 12, which has a flat upper ledge 13, on which rests a strainer 14, while a similar strainer 15 surrounds the lower portion of the ball-cage. Between these two strainers is confined a mass of natural wool which serves as a feed-controlling medium between the oil-chamber and the outlet-passage leading to the part to be lubricated.

The ball-cage 12 is semispherical in its interior surface and serves to confine within a limited radius of movement a ball-valve 16, seated in the curved depression 17 of the oil-cup base and adapted to close the outlet-passage 2 when the oil-cup is at rest, so that the feed of the oil from the chamber will be cut off. The curved ball-cage has a base 18, which rests upon the bottom of the oil-cup. Passage-holes 19 are formed through the lower portion of the ball-cage, so as to permit the passage of oil from the feed-controlling body of wool to the outlet-passage 2.

The pressure of the spring not only serves to keep the valve 6 normally closed, but also to firmly retain the ball-cage and the strainers with their contained feed-controlling body of wool firmly in place in the bottom of the oil-cup.

When it is desired to supply the cup with oil, it is merely necessary to press down the spring-pressed valve and pass the oil into the cup. The parts can be readily removed for cleaning or repair.

Having thus described my invention, what I claim is—

1. In an oil-cup, in combination with a closing-valve for the cup, a spring for said valve, a cut-off valve and a cut-off valve-cage, said valve-cage being pressed upon by said spring to hold it to its seat, substantially as described.

2. In an oil-cup, in combination with a valve provided with a recess and adapted to close the entrance to said cup, a coiled spring fitted at one end in said recess, a cut-off valve-cage and a stud rising from said valve-cage, and engaging the other end of said spring, substantially as described.

3. In an oil-cup, in combination with a spring-pressed closure-valve, a spring for said valve, a cut-off ball-valve in the lower part of said cup, a cage for said ball-valve, separate

strainers mounted on said cage and a feed-controlling medium between the said strainers, said ball-valve cage adapted to engage and be pressed upon by said spring, whereby said
5 cage and the strainers are held in place at the bottom of said oil-cup, substantially as described.

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

LEWIS GLEASON.

Witnesses:

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