W. OSTERHOM.

PRIMING CUP.

APPLICATION FILED JUNE 2, 1910.

979,194. Patented Dec. 20, 1910.

Fig. 2.

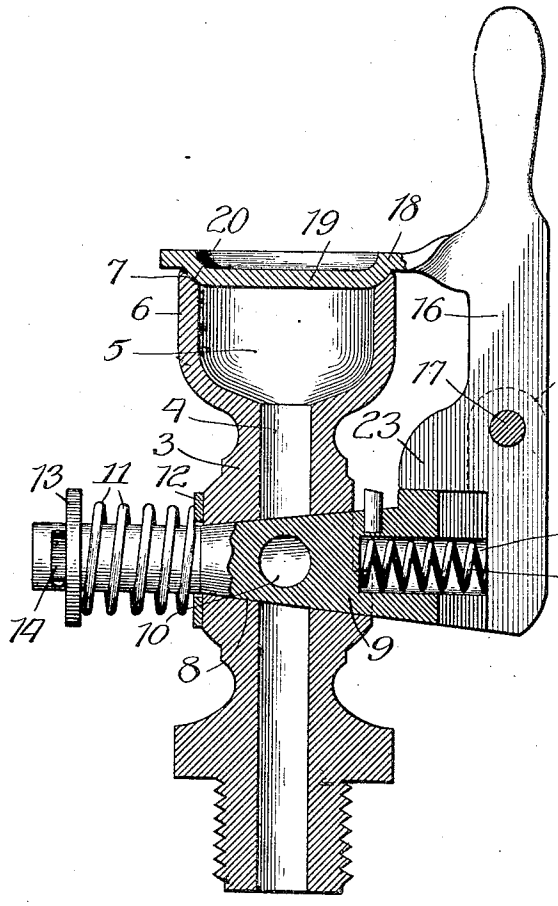
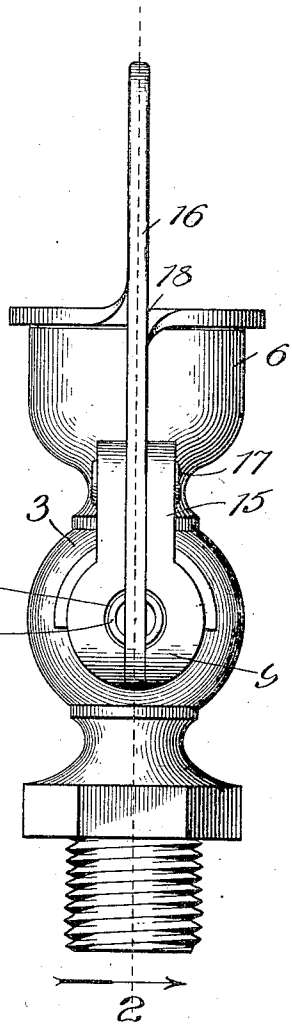


Fig. 1.



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UNITED STATES PATENT OFFICE.

WILLIAM OSTERHOM, OF CHICAGO, ILLINOIS, ASSIGNOR TO ACORN BRASS MANUFACTURING COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

PRIMING-CUP.

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To all whom it may concern:

Be it known that I, WILLIAM OSTERHOM, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Priming-Cups, of which the following is a specification.

My invention relates to improvements in priming cups with which the cylinders of engines of the internal-combustion type are commonly provided; and my object is to provide an improved construction of primer of the class referred to, which when in closed position will be maintained closed against access of dirt thereto during the operation of the engine.

Referring to the accompanying drawings: Figure 1 is a view in end elevation of a priming cup constructed in accordance with my invention; and Fig. 2, a view thereof partly in elevation and partly in section.

The priming cup is formed of a body-portion 3 containing a longitudinally-extending passage 4 terminating in an enlarged cup-shaped chamber 5 the wall of which, represented at 6, is beveled inwardly as indicated at 7. Extending cross-wise through the member 3 is a conical bore 8 intersecting the passage 4, in which a tapered rotary valve-plug 9 containing a cross-conduit 10 is journaled. The small end of the plug is encircled by a coiled spring 11 which is held under compression between washers 12 and 13 surrounding the plug, by a cotter-pin 14, this spring serving to hold the tapered portion of the plug in close engagement with the wall of the bore 8. The larger end of the plug 9 is equipped with a bifurcated lug 15 between the arms of which a lever 16 is pivoted near its lower end, as indicated at 17. The lever 16 is provided with a disk 18, forming a cover for the cup 5, which in its preferred form is provided with a circular boss 19 on its under-side preferably formed by striking down the central portion of the cover to the condition illustrated, the margins of this boss being beveled, as indicated at 20, at which it rests upon the beveled surface 7. Bearing against the lower end of the lever 16, which extends into a longitudinally extending slot in the large end of the plug, is a spring 21 located in a socket 22 in the plug, this spring tending to swing the lever to the left in Fig. 2 for releasably holding the cover on the cup-seat 7.

The parts of the device are so constructed and arranged that when the port 10 in the plug 9 extends transversely of the passage 4 in the member 3, the cover 18 will fit over the cup as illustrated in Fig. 2, and when the lever 16 is turned to rotate the plug to open the passage 4, the cover will be removed from the position illustrated to uncover the cup for permitting it to be filled with oil, a stop 23 on the lever 16 operating to prevent undue swinging of the lever, and the beveled surfaces 7 and 20 on the cup and boss 19 permitting the latter to slide over the upper edge of the cup, the spring 21 in this operation yielding to permit such movement. The cover may be slid off as described, or, if desired, may be removed by swinging the lever 16 against the action of the spring 21 to lift the cover clear of the cup in the operation of turning the plug 9.

It will be manifest from the foregoing description that the cover 19 is firmly held to its seat when in covering position and that any tendency to unseating thereof, as by the vibration of the engine, is overcome.

While I have illustrated and described a particular embodiment of my invention, I do not wish to be understood as intending to limit it to such construction, as the same may be variously modified without departing from the spirit of my invention.

What I claim as new and desire to secure by Letters Patent is—

1. A valved priming-cup provided with a spring-pressed cover movable from closed to open condition by turning the valve, and means on said cover coöperating with the edges of said cup for preventing lateral displacement of the cover.

2. A valved priming-cup, provided with a spring-pressed cover movable from closed to open condition by turning the valve, and means on said cover extending through the plane of the edge of the cup and coöperating therewith for preventing lateral displacement of the cover.

3. A valved priming-cup provided with a spring-pressed cover movable from closed to open condition by turning the valve, and means on said cover extending into the cup and coöperating with the edges thereof, for the purpose set forth

4. A valved priming-cup provided with a spring-pressed cover movable from closed to open condition by turning the valve, and a boss on said cover extending into said cup and coöperating with the edges thereof, for the purpose set forth.

5. A valved priming-cup provided with a spring-pressed cover movable from closed to open condition by turning the valve, and a beveled projection on said cover extending into said cup, for the purpose set forth.

6. A valved priming-cup provided with a spring-pressed cover movable from closed to open condition by turning the valve, and a beveled circular boss on said cover extending into said cup, for the purpose set forth.

7. A valved priming-cup having the outer edge of its cup beveled and provided with a spring-pressed cover formed with a boss extending into said cup and movable from closed to open condition by turning the valve, for the purpose set forth.

8. A valved priming-cup provided with a spring-pressed cover movable from closed to open condition by turning the valve, and formed with a depressed portion affording a boss extending into said cup, for the purpose set forth.

9. A valved priming-cup, a lever pivotally connected with the valve-plug, a cover carried by said lever and coöperating with the cup, and a spring tending to hold the cover on the cup, said cover being so constructed as to interlock with the walls of said cup under the action of said spring, for the purpose set forth.

10. A valved priming-cup formed with a valve-stem, a valve-operating lever yieldingly connected with said valve-stem, and a cover for the cup carried by said lever.

11. A valved priming-cup formed with a valve-stem, a valve-operating lever pivotally connected with said valve-stem, a cover for the cup carried by said lever, and means for yieldingly holding said cover against the cup.

12. A valved priming-cup formed with a valve-stem, a valve-operating lever pivotally connected with said valve-stem, a cover for the cup carried by said lever and constructed to interlock with the cup, and means for yieldingly forcing said lever in the direction to hold the cover on the cup.

WILLIAM OSTERHOM.

In presence of—
R. A. SCHAEFER,
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