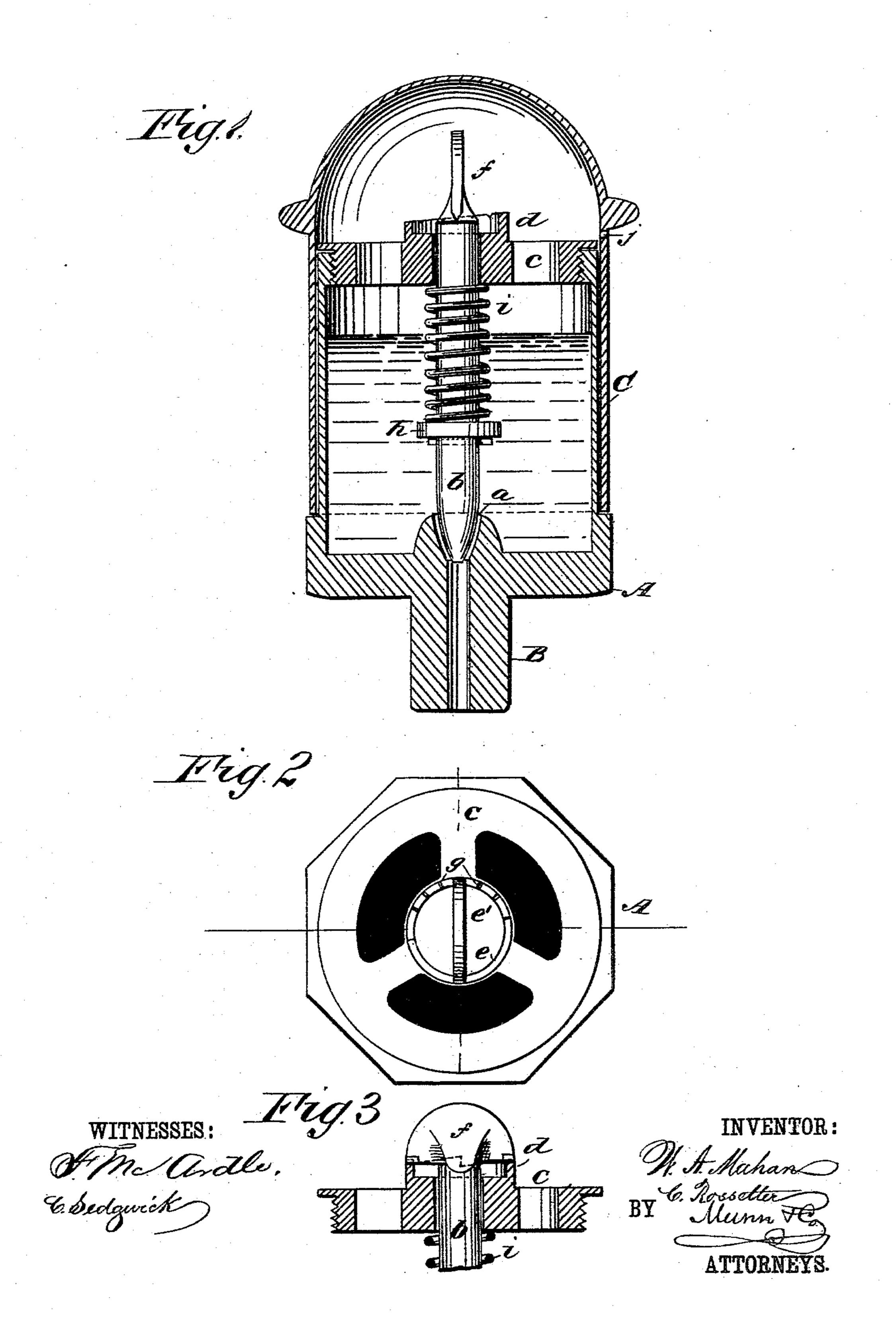
(No Model.)

W. A. MAHAN & C. ROSSETTER.
OIL CUP.

No. 339,441.

Patented Apr. 6, 1886.



United States Patent Office.

WILLIAM A. MAHAN AND CHARLES ROSSETTER, OF MARQUETTE, MICH.

OIL-CUP.

SPECIFICATION forming part of Letters Patent No. 339,441, dated April 6, 1886.

Application filed January 12, 1886. Serial No. 188,379. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM A. MAHAN and CHARLES ROSSETTER, of Marquette, in the county of Marquette and State of Michi-5 gan, have invented a new and useful Improvement in Oil-Cups, of which the following is a specification, reference being had to the annexed drawings, forming a part thereof, in which—

Figure 1 is a vertical transverse section of our improved cup. Fig. 2 is a plan view with the cover removed. Fig. 3 is a detail sectional view of the feed-regulating device.

Similar letters of reference indicate corre-15 sponding parts in the different figures of the

drawings.

The object of our invention is to provide a simple, easily adjusted, and reliable automatic oil-cup for use upon locomotive-guides 20 and other machinery requiring continuous oiling.

Our invention consists in an oil-cup provided with a discharge-aperture in the bottom thereof, an adjustable valve fitted to the dis-25 charge-aperture, and novel means for regulating the adjustment of the valve and holding it in any position in which it may be placed, as hereinafter more fully described.

The cup A is provided with a nipple, B, 30 which is threaded for attachment to the guides of a locomotive or other mechanism in connection with which the oil-cup is used. At the top of the opening of the nipple and inside of the cup A is formed a valve-seat, a, 35 to which is fitted a valve, b, whose stem extends upward through a spider, c, inserted into or formed in the top of the cup A.

On the top of the spider c, and concentric with the stem of the valve b, is formed an 40 annular rim, d, on the upper edge of which there are two inclined surfaces or cams, e e', and to the top of the valve-spindle is attached a cross-bar, f, whose lower edge is V-shaped and rests upon the inclined cams ee', formed cross-barf is made in the form of a thumbpiece, for convenience of handling, and when the bar is above the lower ends of the inclined cams e e' the valve b will be on its seat, and 50 when the cross-bar f is turned so as to cause it to ride upward on the inclined cams $e\ e'$ the valve b will be raised, (more or less,) allowing the oil to escape from the cup through the nipple B to the bearing or surface to be lu-55 bricated.

To cause the cross-bar f to remain in the position in which it is placed, notches g are formed in the inclined cam e' of the annular rim d. A collar, h, is formed on or attached to the spindle of the valve b, and between the 60 collar h and the spider c a spiral spring, i, is placed loosely on the valve-spindle, and tends to force the valve b down upon its seat.

The oil-cup A is provided with a cover, C, which fits over the exterior thereof and ex- 65

cludes dust and moisture.

To prevent air-pressure or the formation of a vacuum in the oil-cup, the cover C is provid-

ed with a vent, j.

Our improved oil-cup may be furnished 70 with the sight-feed arrangement, which would be connected with the nipple B in the usual way.

The valve of the oil-cup may be regulated to feed at any required rate by the adjust- 75 ment of the cross-bar f, as before described, and the oil-cup may be adjusted at night or in the dark by listening to the clicks of the cross-bar f as it comes into engagement with the notches g in succession.

Having thus described our invention, what we claim as new, and desire to secure by Let-

ters Patent, is—

1. In an oiler, the combination, with the cup A, provided with the nipple B and valve- 85 seat a, of the valve b, the flange h, and cross-bar f, the rim d, having the inclined surfaces or cams e e' formed thereon, the cross-bar f, arranged to engage the inclined surfaces, the spring i, surrounding the valve-spindle and arranged 90 to press the valve to its seat, and the cover C, inclosing the oil-cup and valve-operating devices, substantially as herein shown and described.

2. In an oiler, the combination, with the 95 cup A, provided with the nipple B and valveseat a, of the valve b, having the cross-bar f, the rim d, having formed thereon the inclined surfaces or cams $e\ e'$, one or both of the 45 on the upper edge of the annular rim d. The | inclined surfaces or cams being provided with ronotches g, and the cover C, inclosing the oilcup and valve-operating devices, substantially as herein shown and described.

> WILLIAM A. MAHAN. CHARLES ROSSETTER.

Witnesses: P. W. WRIGHT, ALLAH L. CLARK.