

(No Model.)

M. L. CONWAY.

LUBRICATOR.

No. 285,465.

Patented Sept. 25, 1883.

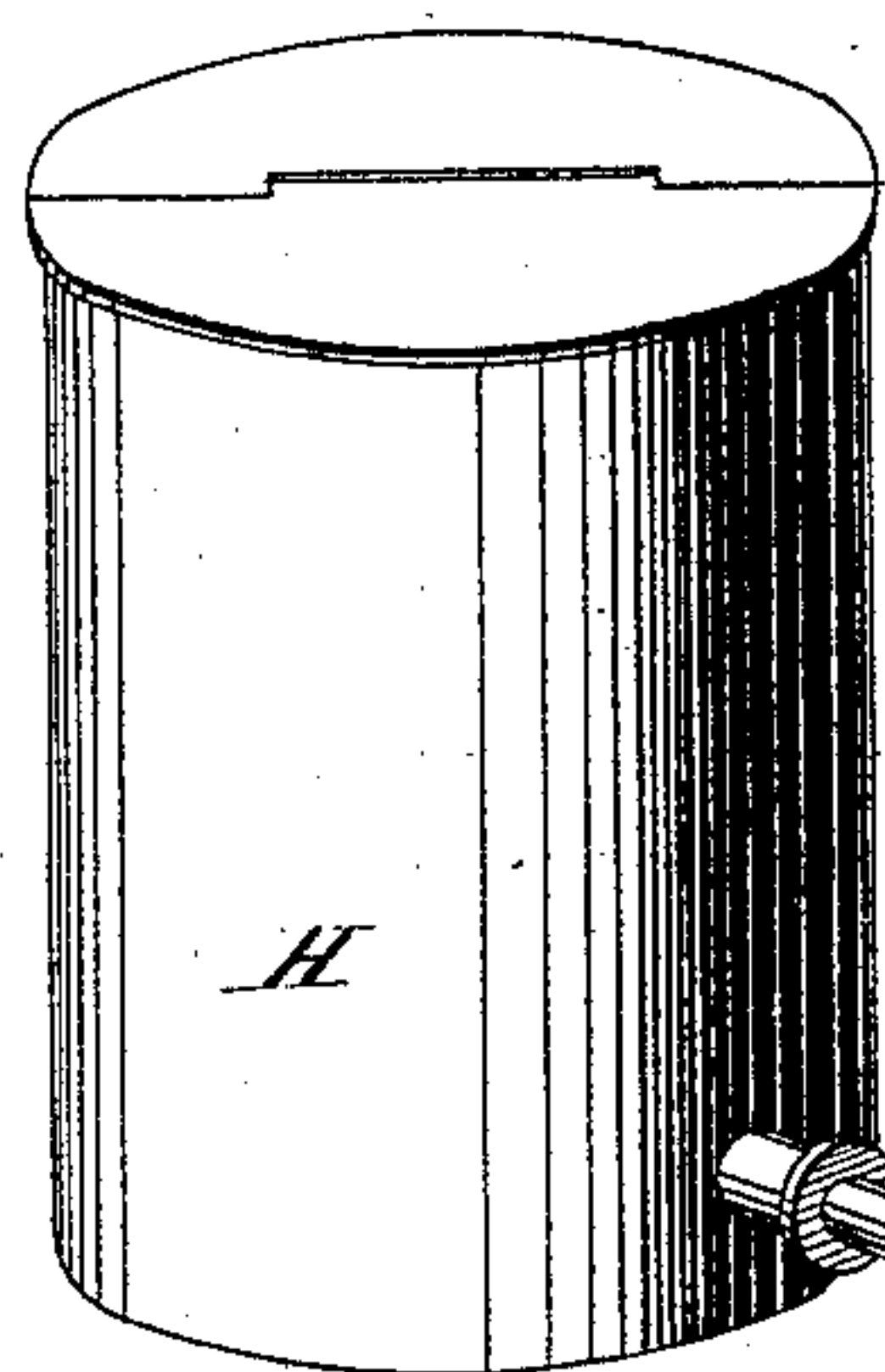


Fig. 1.

Fig. 3.

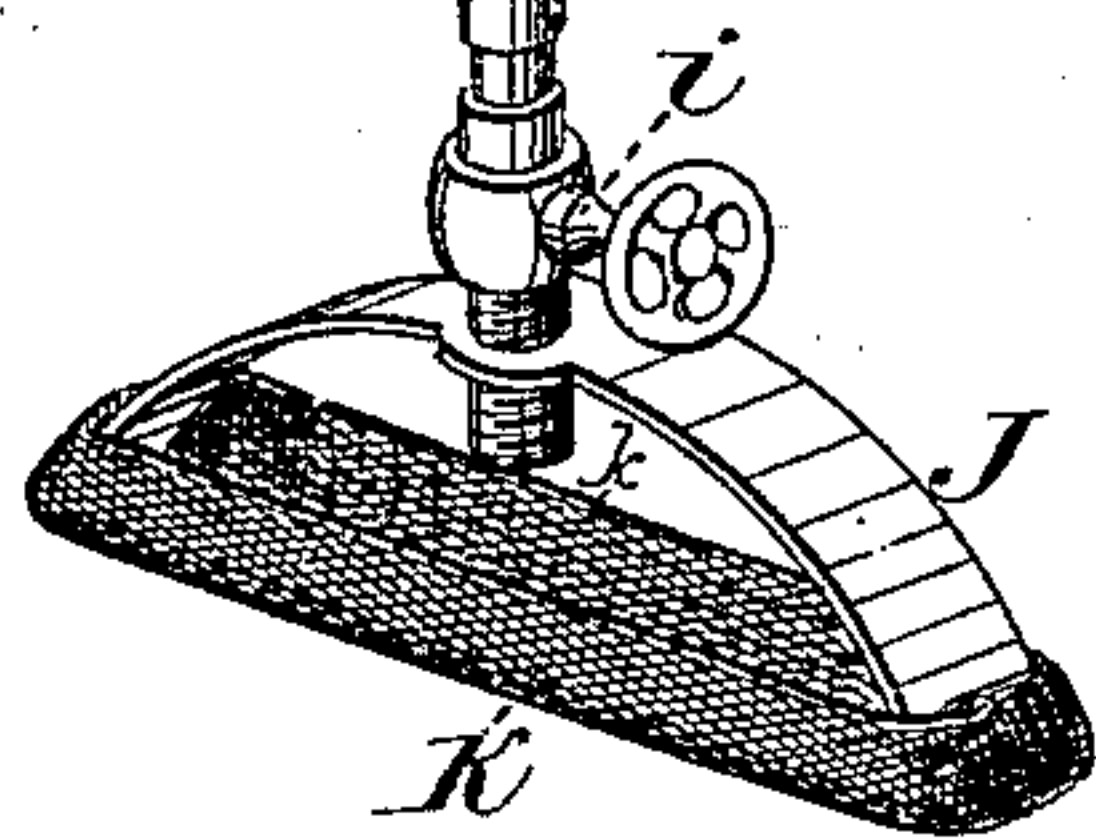
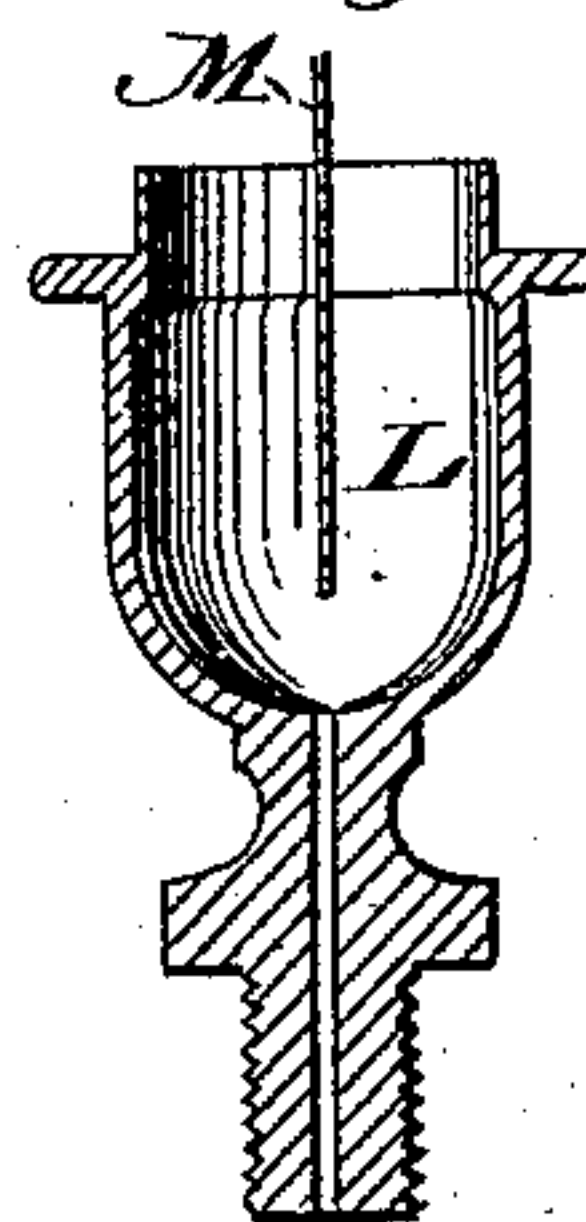
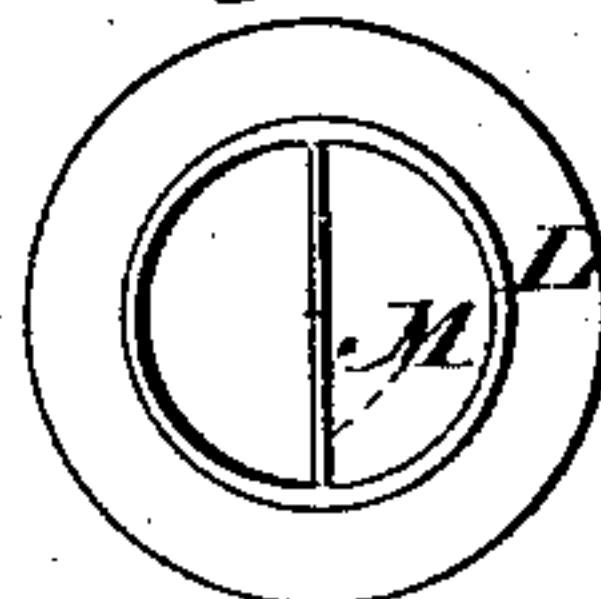
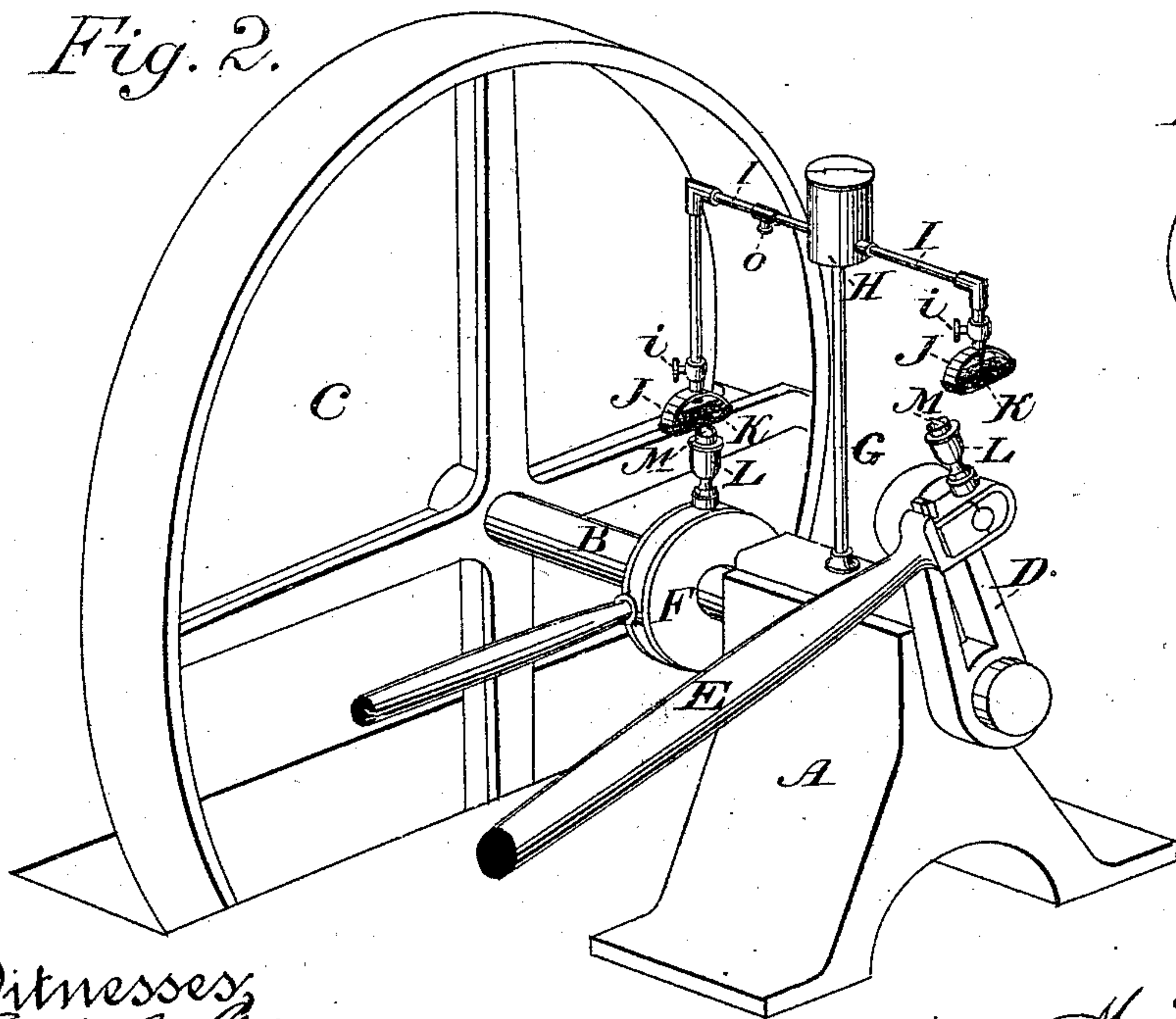


Fig. 2.

Fig. 4.



Witnesses,
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UNITED STATES PATENT OFFICE.

MICHAEL L. CONWAY, OF SAN FRANCISCO, CAL., ASSIGNOR OF TWO-EIGHTHS
TO JOHN BRODERICK AND JOHN A. HAMILTON, BOTH OF SAME PLACE.

LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 285,465, dated September 25, 1883.

Application filed July 3, 1883. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL L. CONWAY, of the city and county of San Francisco and State of California, have invented an Improvement in Lubricators; and I hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to a new and useful lubricator; and it consists in a novel combination and arrangement of parts by which different parts of a machine may be lubricated from a single oil-vessel, as I shall hereinafter fully explain, reference being made to the accompanying drawings, in which—

Figure 1 is a perspective view of the oil-reservoir, the exit-pipe, and the strip of fabric K. Fig. 2 is a view of the lubricator, showing its application to an engine. Fig. 3 is a vertical section of the oil-cup L, having scraper M. Fig. 4 is a top view of the same.

The object of this invention is to provide a simple, effective, and steadily-operating lubricator for steam-engines.

A represents a standard, B the shaft, C the fly-wheel, D the crank, E the pitman, and F the eccentric of an ordinary engine. Upon standard A is a rod, G, supporting the oil-reservoir H, which may be of any suitable pattern or material. I is a pipe leading from this reservoir and bent downwardly with suitable elbows. Upon its end are screwed arms J, between and to the ends of which is secured a strip of fabric or other suitable porous material, K, turned up at the sides *k*, so as to form a trough-shaped receptacle for the dropping oil. I have found, while various kinds of material—such as canvas, woolen cloth, sponge, &c.,—will answer, that what is known commonly as “lamp-wick” is preferable, as its absorbing power is great, though not being too porous, as a sponge would be. The end of pipe I is open; and the oil from it, the flow of which may be nicely regulated by means of the valve *i*, drops upon the strip of lamp-wick, which thus becomes saturated with the oil. Upon the stub end of the connecting-rod is screwed in usual manner the cup L for oiling the wrist-pin. This cup is provided

with a diametrical blade or scraper, M, of thin metal, the upper edge of which projects slightly above the rim of the cup, while its lower portion extends down within the cup some distance. This cup, with its scraper, is preferably cast integral. In the revolution of the crank the cup L comes in such close proximity to the saturated fabric that its scraper passes along the under surface of said fabric and scrapes the surplus oil from it, which then passes down the scraper into and through the cup to the wrist-pin. This strip of lamp-wick may be renewed when required, its small cost and the facility of adjusting a fresh strip rendering the operation practicable. The supply of oil is certain and regular.

In connection with the eccentric I have shown similar devices, lettered similarly, and in case there are two eccentrics connection could be made with pipe I by means of the T-coupling *o*. In like manner any part of the engine may be connected with the main reservoir by means of couplings.

I am aware of patent granted to Joseph H. Wilkinson, May 28, 1872, and numbered 127,205, and I do not wish to be understood as claiming, broadly, anything shown, described, or claimed in said patent.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The oil-reservoir H, having pipes I I, provided with valves *i*, and bent downwardly, with suitable elbows, arms J J, connected to the discharge ends of said pipes, and provided with strips of porous fabric or other suitable material, and rod G, for supporting said oil-reservoir, in combination with the vibrating lubricating-cups L L, each having the blade or scraper M, substantially as herein shown and described.

In witness whereof I have hereunto set my hand.

MICHAEL L. CONWAY.

Witnesses:

S. H. NOURSE,
C. D. COLE.