

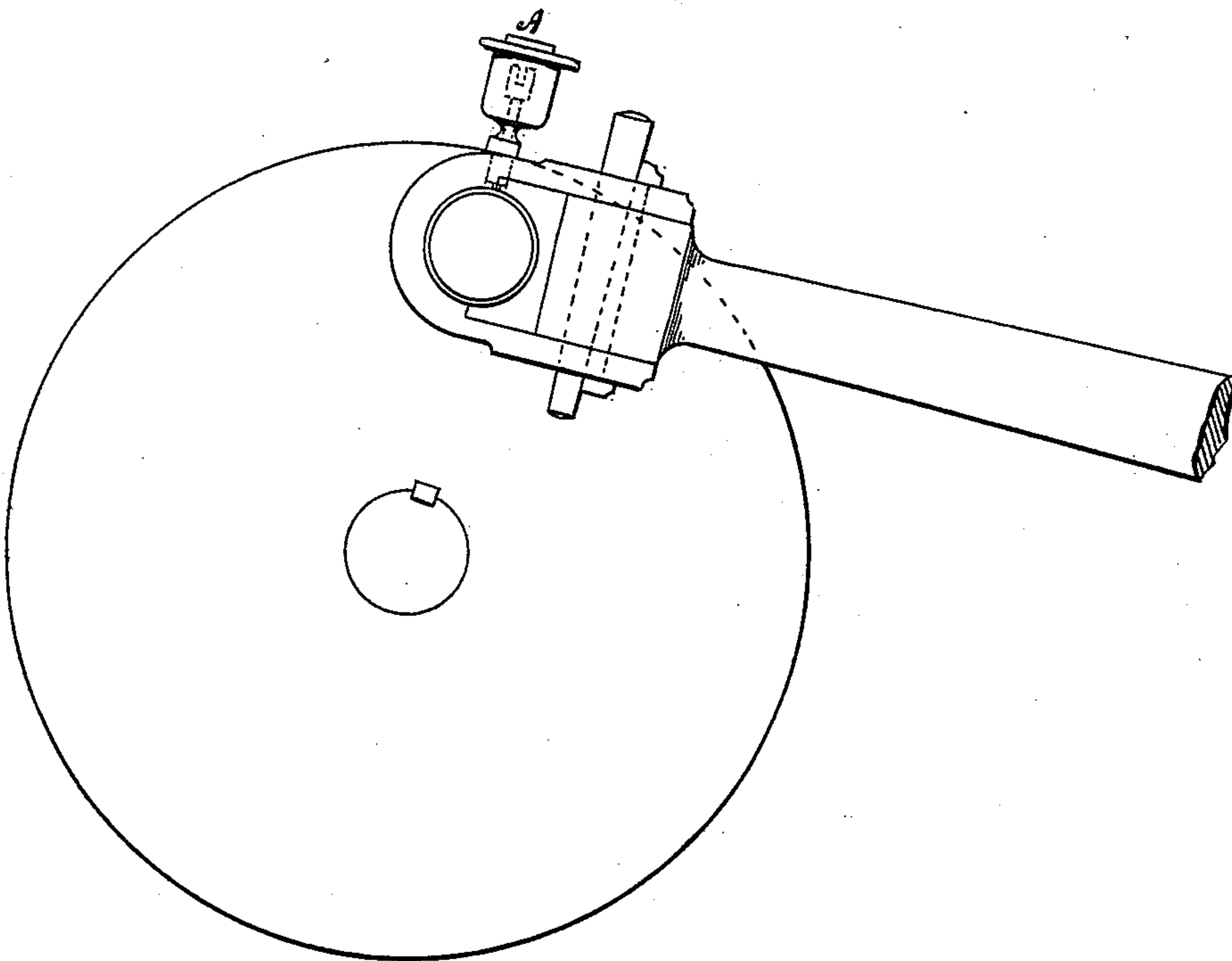
(No Model.)

J. B. GLOVER.  
LUBRICATING DEVICE.

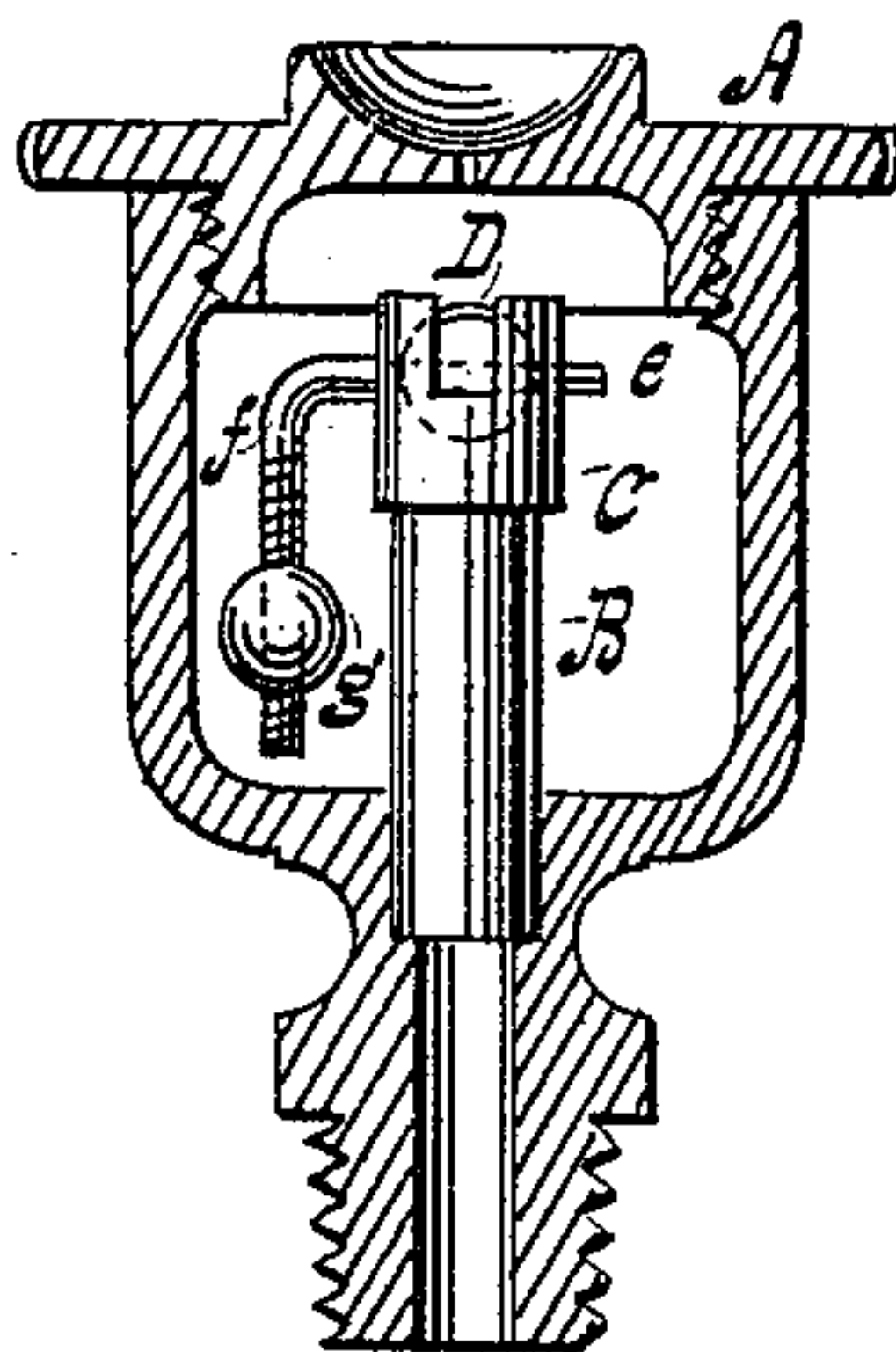
No. 403,657.

Patented May 21, 1889.

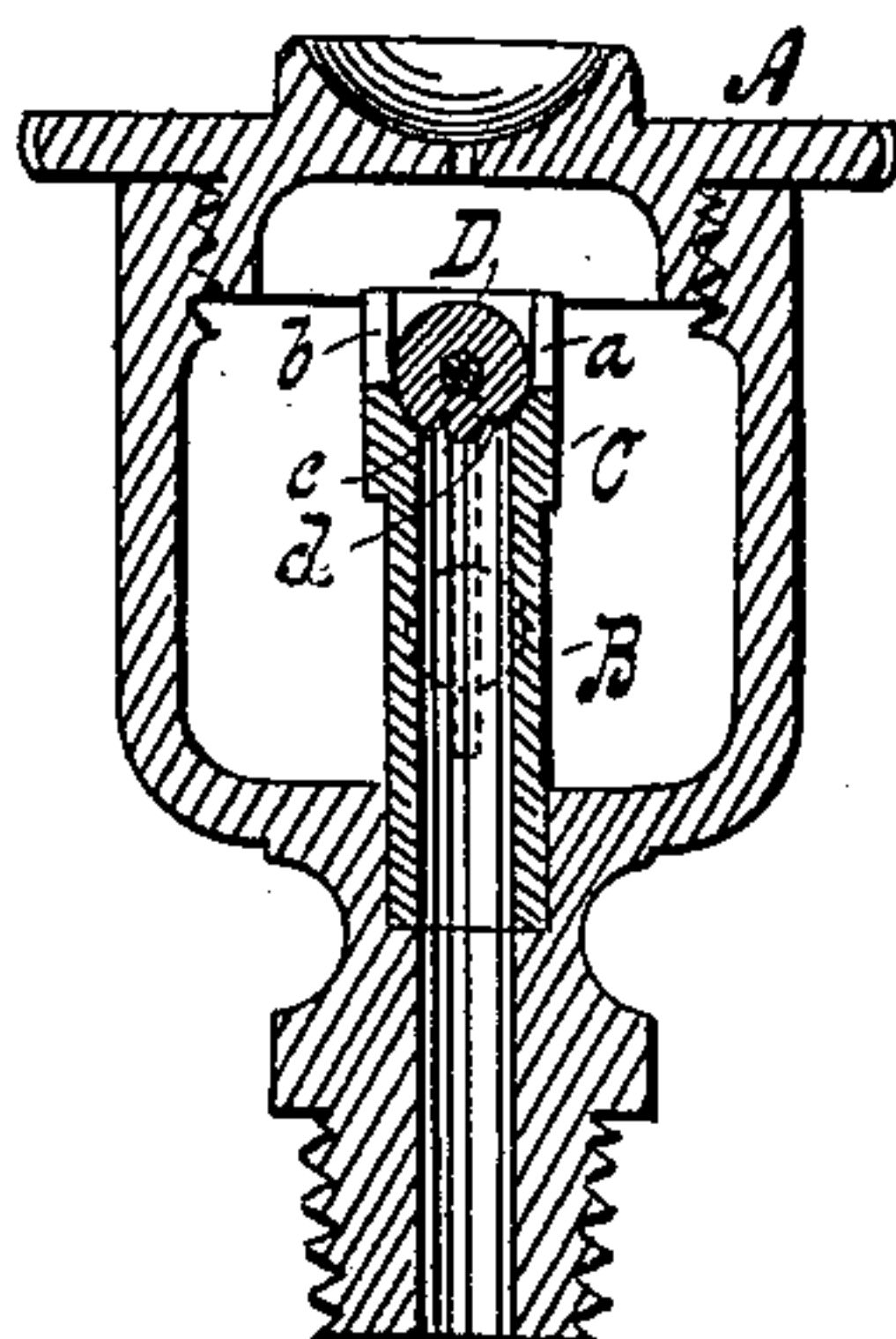
*Fig: 1.*



*Fig: 2.*



*Fig: 3.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

JOHN B. GLOVER, OF DUBUQUE, IOWA.

## LUBRICATING DEVICE.

SPECIFICATION forming part of Letters Patent No. 403,657, dated May 21, 1889.

Application filed February 18, 1889. Serial No. 300,225. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN B. GLOVER, of Dubuque, in the county of Dubuque and State of Iowa, have invented a certain new and useful Improvement in Lubricating Devices, of which I declare the following to be a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

10 This invention is in the nature of an improvement in devices for lubricating journals, &c.; and the invention consists of a lubricating device with its several parts arranged, constructed, and combined in the manner hereinafter particularly shown, described, and claimed.

15 In the accompanying sheet of drawings, Figure 1 represents the device applied to a piece of machinery. Fig. 2 is a vertical section of the cup and view of its interior. Fig. 3 is a vertical section at right angles to the plane of Fig. 2.

Similar letters of reference indicate like parts in the several views.

25 The thing to be desired in lubricating journals, &c., is to keep the surfaces sufficiently and certainly oiled without wasting oil by flooding them or allowing the journals to get heated by an insufficient or uncertain supply of oil. The devices contrived to bring about this object are almost without number; but it is believed that my device is simpler, less expensive, and more positive in its action than any other, and possesses the additional advantage of ready application to the ordinary oil-cup.

35 Inside the ordinary oil-cup, A, is fixed a tube, B, open at both ends, and of any convenient length. To the upper part of this tube is screwed or in some way fixed a tube-section, C, the interior of which corresponds to the exterior of the tube B. It is obvious that this section, instead of being separate, may be an enlargement of the tube B. In the section C are cut slots *a* and *b*, opposite to each other, and within the section is pivoted a sphere, D, with channels *c* and *d* formed therein. The sphere is pivoted to the section C by a wire, *e*, that is bent practically at a right angle, forming an arm, *f*, to which is adjustably secured a weight, *g*. When the sphere is in this way pivoted to the section C, its diameter should be such as to cause the sphere practically to close the upper end

of the tube B in the same manner as would 55 a ball-valve, and when the tube B is so closed by the sphere, though the oil-cup is filled with oil, no oil is admitted into the tube; but when the oil-cup is fixed to machinery having a rotating or oscillating motion then the motion of the machinery causes the weight *g* to swing as a pendulum, and by so doing brings the channels *c* and *d* and the part of the sphere which is not channeled alternately opposite the lower parts of the slots *a* and *b*, 60 so that when the channels in the sphere are opposite these slots the oil in the cup can percolate through them and through the tube B to the journal, and when that part of the sphere without the channels is opposite the slots *a* and *b* in the section C then the oil is shut off from the mouth of the tube B, and so on the supply is continued and denied access to the journal. 70

The rapidity with which the oil may be fed 75 to the journal may be regulated by moving the weight *g* up or down on the arm, as in any pendulum.

It will be seen from the foregoing construction that the supply of oil to a journal 80 by my device is certain and not liable to gumming or clogging; but as long as there is oil in the oil-cup it will surely find its way to the journal that is intended to be lubricated by it. 85

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

1. A lubricating-cup provided with an interior tube extending upward from the bottom of the cup, and a channeled sphere provided with a pendulum pivoted in the upper end of said tube, substantially as and for the purpose described. 90

2. In combination, an oil-cup fitted with a tube, B, with an enlargement, C, at its upper end, having slots *a* and *b*, a sphere, D, with channels *c* and *d*, formed therein pivoted to said enlargement, and an arm with a ball, *g*, fixed thereto, whereby said sphere is made to oscillate and alternately admit and shut off the oil within the cup to and from the tube B, as and for the purpose described. 100

JOHN B. GLOVER.

In presence of—

J. H. CARBERRY,  
H. B. FOUKE.