

(No Model.)

A. LOTZ.  
LUBRICATOR.

No. 305,608.

Patented Sept. 23, 1884.

Fig. 3.

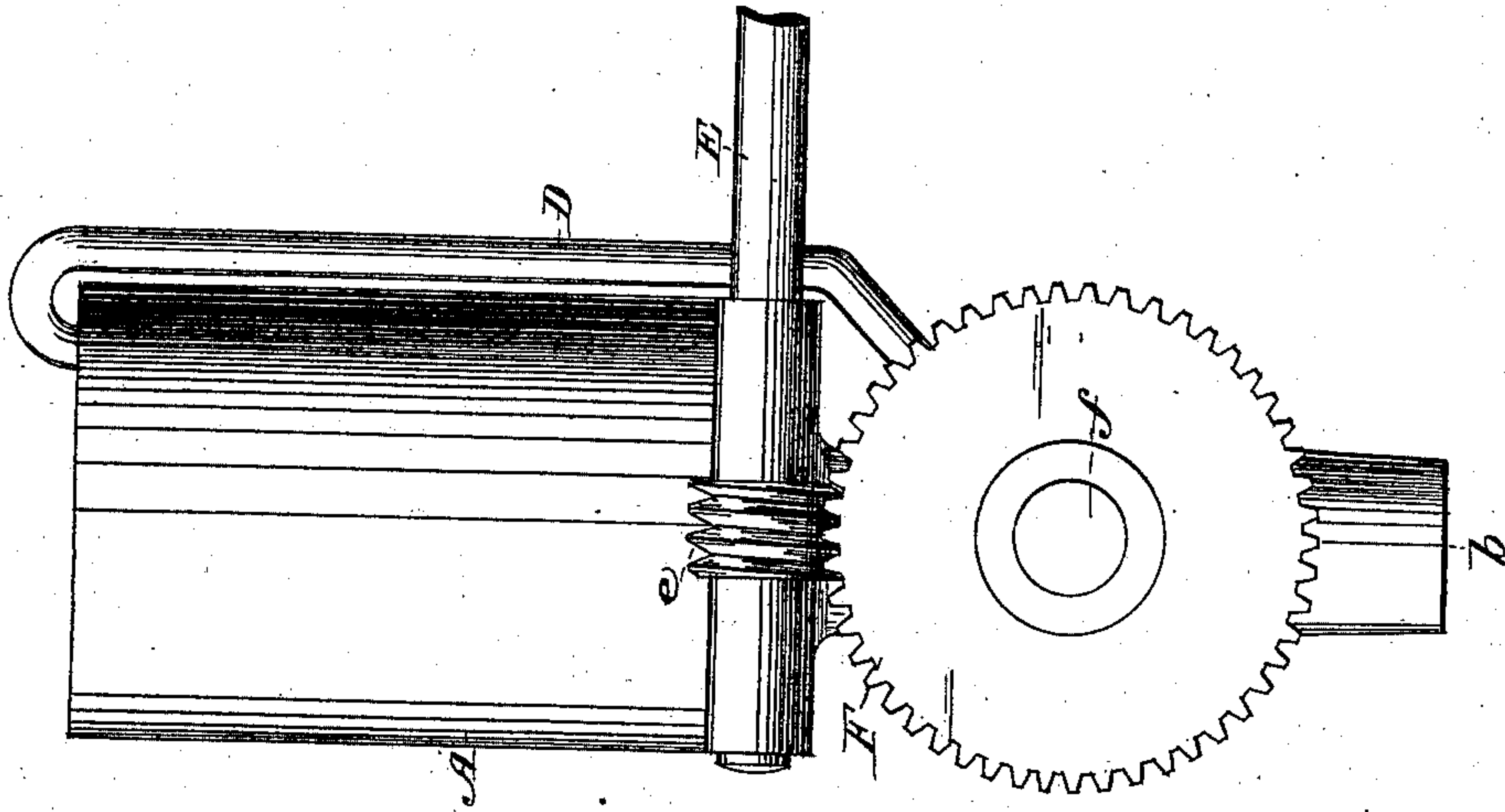


Fig. 2.

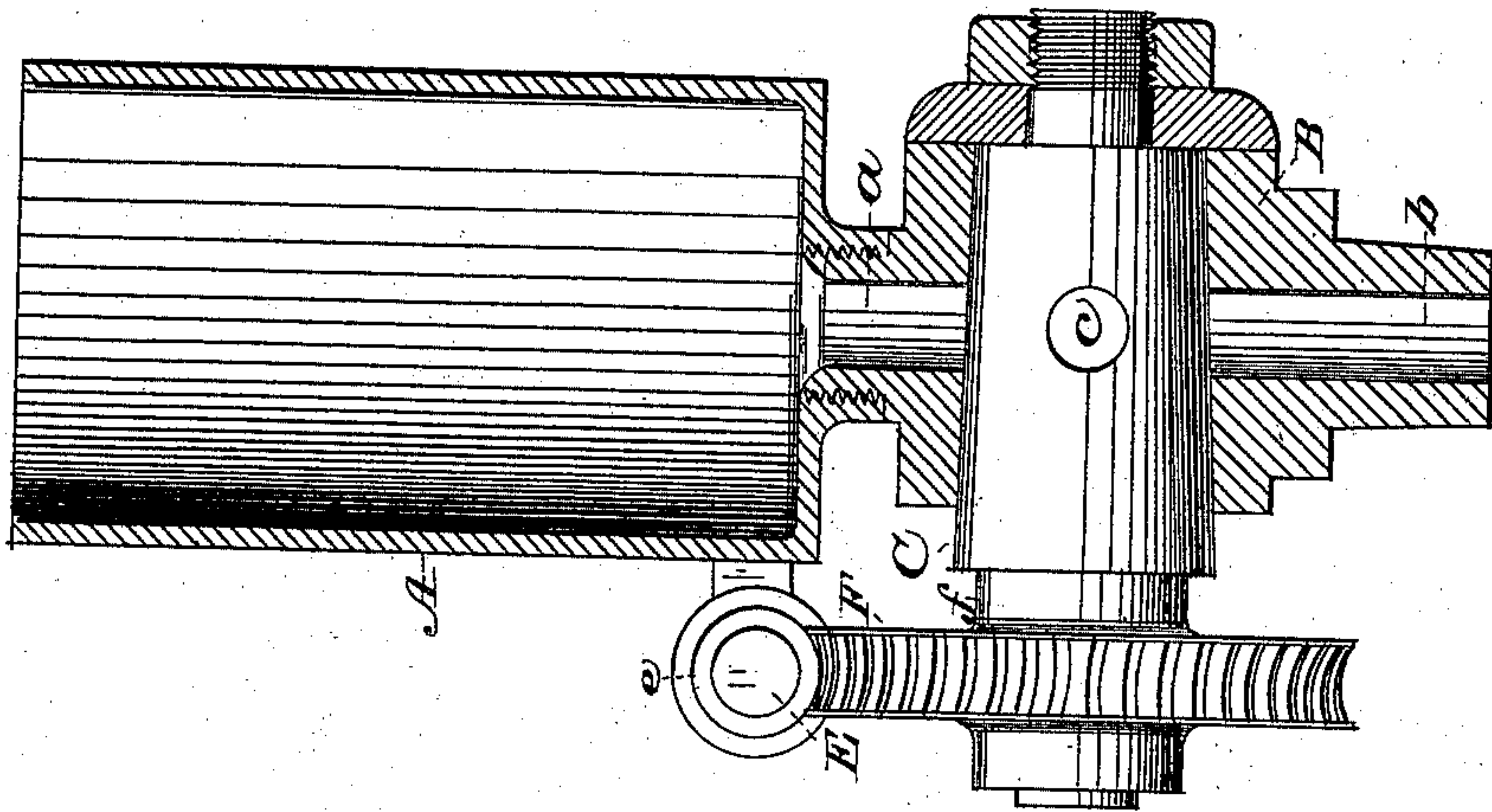
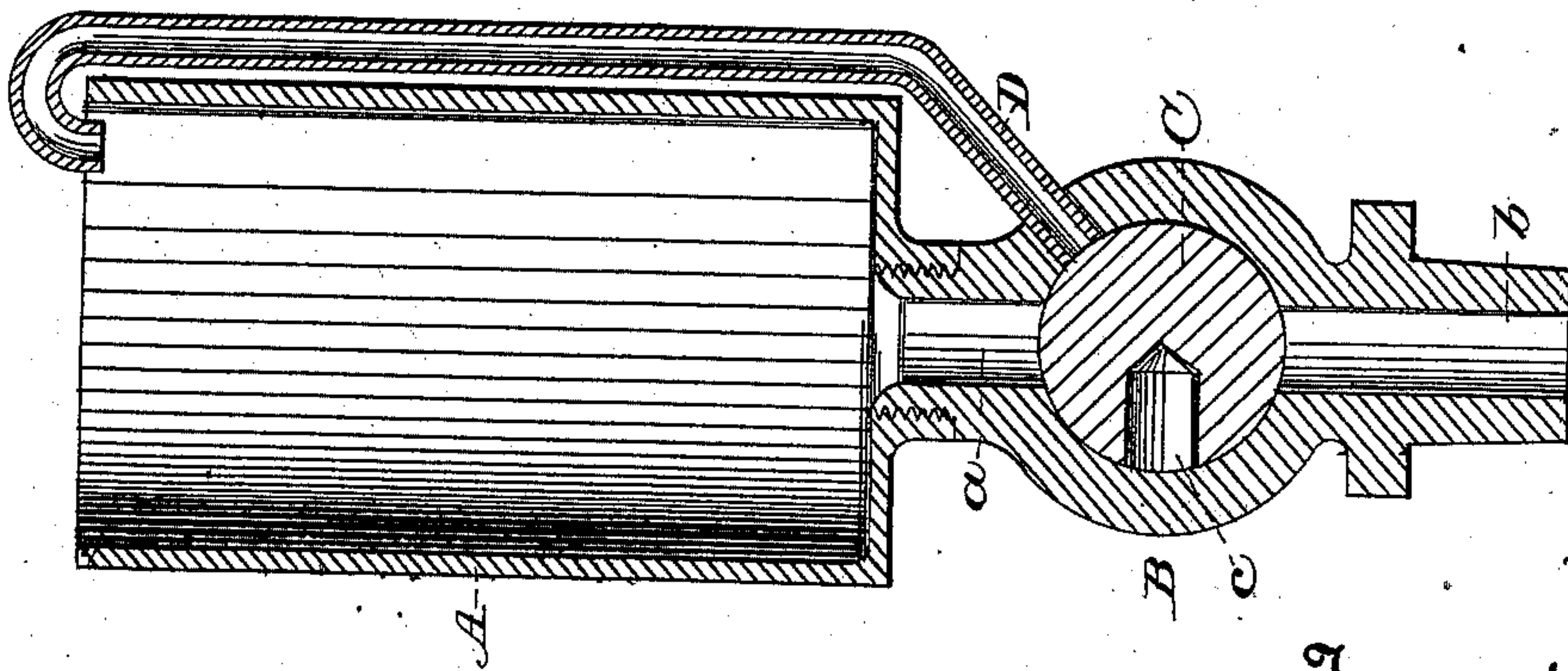


Fig. 1.



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# UNITED STATES PATENT OFFICE.

AUGUST LOTZ, OF SAN JOSÉ, CALIFORNIA.

## LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 305,608, dated September 23, 1884.

Application filed August 1, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, AUGUST LOTZ, of the city of San José, in the county of Santa Clara 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 of that class in which the flow of feed of the lubricating material is governed by the movement of machinery which it effects.

My invention consists in a plug or cylinder adapted to be rotated by the power-shaft, and having a receptacle or chamber in its surface by which the rotation of the plug is brought into relation with the discharge of the oil-cup to receive its oil, which is thence carried down and discharged into a suitable opening or passage upon the part to be lubricated. The object of my invention is to provide a simple and effective automatically-operating lubricator.

Referring to the accompanying drawings for a more complete explanation of my invention, Figure 1 is a vertical section of my lubricator. Fig. 2 is a vertical section, showing the plug and gear in elevation. Fig. 3 is an elevation.

A is an oil-cup having a discharge, *a*, at its bottom.

B is a casting or shell, in which is mounted a tapering cylindrical plug, C, having a chamber or recess, *c*, in its surface, which is adapted to be brought into communication with the discharge *a* of the oil-cup. The shell B is provided with a discharge, *b*, which may be supposed to be in communication with that part of the machinery which is to be lubricated.

D is an air-passage passing through the shell B and opening against the cylindrical plug, its upper end extending upwardly and bent over into the top of the oil-cup.

E is a shaft to which power is transmitted, and this shaft has upon its end a worm, *e*, which engages with the worm-gear F, mounted upon the axle *f* of the cylindrical plug C.

The operation of my lubricator is as follows: The power transmitted by shaft E through worm *e* and gear F rotates the cylindrical plug C, so that its chamber *c* is brought into communication with the discharge *a* of the oil-cup, through which it receives its charge

of oil. Continued rotation thence carries the chamber around, with its charge of oil, until it comes into communication with the discharge-passage *b*, directly below, into which it deposits the oil, thence passing up on the other side of the shell to the air-passage D, by which the pressure is relieved preparatory to receiving a new charge of oil from the discharge *a*. It will thus be seen that the operation of the lubricator, depending upon the power transmitted from the machinery itself, is automatic, and a steady quantity of oil is deposited at each revolution of the plug. The device is simple and economical, and is adapted to be readily attached to any portion of the machinery.

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

1. A lubricator consisting of a cup, A, having passage *a*, the casting or shell B, having passage *b*, and the rotating cylinder or plug C, mounted in said casting and having a chamber or recess, *c*, adapted to be brought into communication with the passage *a* of the oil-cup and the passage *b* of the shell B, substantially as herein described.

2. In a lubricator consisting of a cup, A, having a discharge-passage, *a*, a casting or shell, B, having a discharge-passage, *b*, an air-passage, D, passing into said shell, and a rotating plug or cylinder, C, having a chamber or recess, *c*, adapted to be brought into communication with the discharge-passage *a* of the cup, the discharge-passage *b* of the shell, and the air-passage D, substantially as herein described.

3. The oil-cup A, having passage *a*, and the shell or casting B, having discharge-passage *b*, in combination with the cylinder or plug C, having a chamber or recess, *c*, and the means by which said cylinder or plug is rotated in order to bring its chamber into communication with the passages *a* and *b*, consisting of the worm-gear F, upon the axis of said plug, and the worm *e*, on the power-shaft E of the machinery to which the lubricator is attached, substantially as herein described.

In witness whereof I have hereunto set my hand.

AUGUST LOTZ.

Witnesses:

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