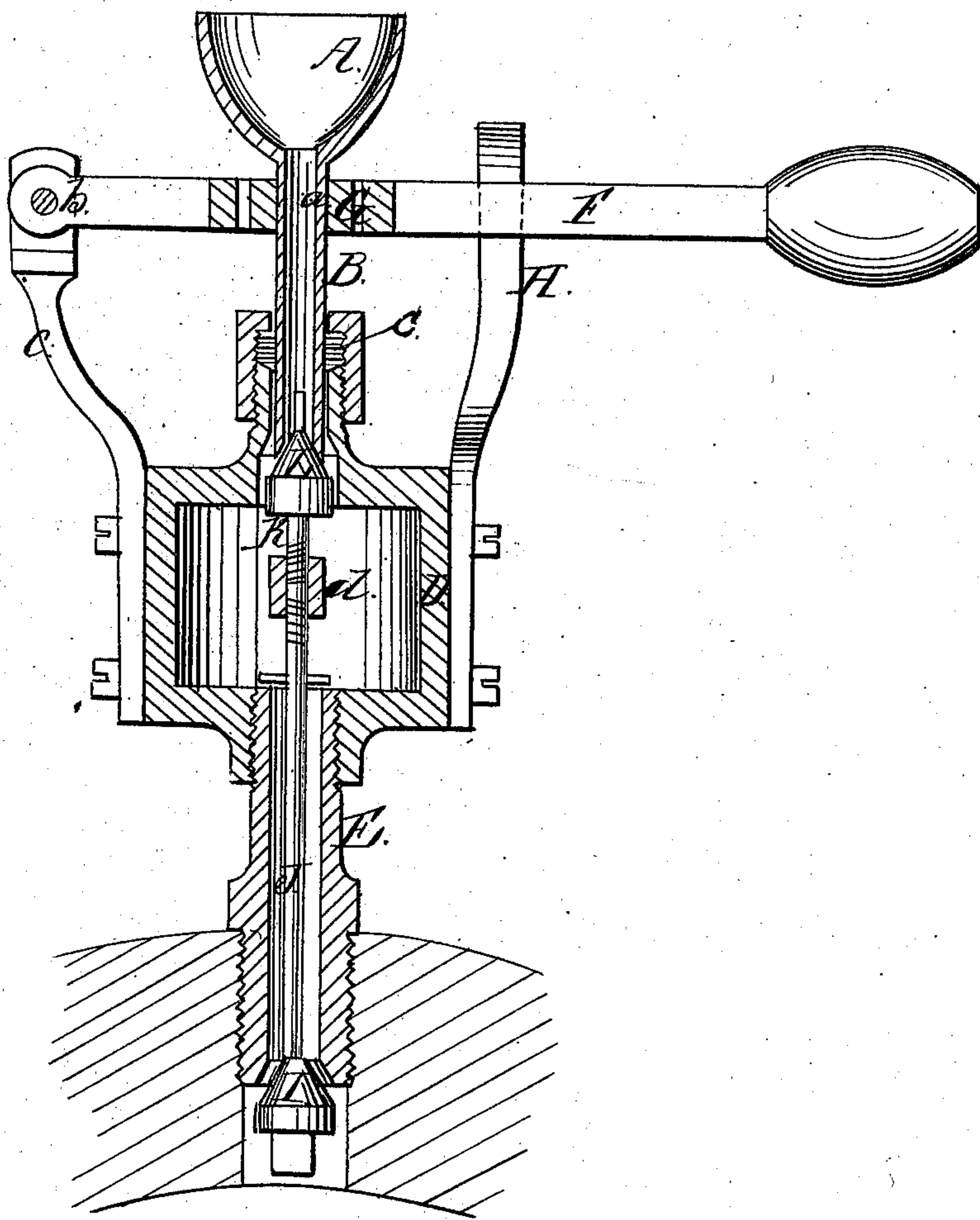


*G. Girty,
Lubricator.*

N^o 83,275.

Patented Oct. 20, 1868.



*Witnesses:
Alex. F. Roberts
Wm. A. Morgan*

*Inventor:
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per [Signature]
Attorneys*

United States Patent Office.

GEORGE GIRTY, OF RAINIER, OREGON.

Letters Patent No. 83,275, dated October 20, 1868.

IMPROVEMENT IN LUBRICATORS FOR STEAM-ENGINES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, GEORGE GIRTY, of Rainier, in the county of Columbia, and State of Oregon, have invented a new and useful Improvement in a Lubricating-Device for Steam-Cylinders; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which the drawing represents a vertical central section of my invention.

This invention relates to a new and improved device for lubricating steam-cylinders, and it consists of a novel arrangement of valves, oil-chamber, and lever, as hereinafter shown and described, whereby several advantages are obtained, as herein set forth.

A represents an oil-receiver, which is provided with a pendent pipe, B, the latter extending down through a stuffing-box, C, into an oil-chamber, D.

This oil-chamber is screwed on the upper end of a pipe, E, the lower end of the latter being screwed into the steam-cylinder shown in red.

F is a lever, formed with a yoke, G, through which the pipe B passes, the latter being secured in the yoke by a pin, a.

The fulcrum b of the lever F is an arm, c, attached to the outer side of the oil-chamber, and a spring-catch, H, is also attached to the exterior of the oil-chamber, to hold the lever F down when necessary.

I represents a valve, which is attached to the lower end of a stem, J, which passes up, through the pipe E, into the oil-chamber D, and is connected, by a coupling, d, with the stem K of a valve, L.

When the lever F is held down by the spring-catch H, the valve L closes the lower end of the pipe B, but the valve I is open, so that any oil in D may descend through pipe E into the cylinder.

Whenever it is necessary to replenish D with oil, the catch H is shoved to one side of the lever F, and the valve I is instantly raised and closed under the pressure of the steam, and the lever F is then raised a trifle by hand, so that the pipe B will be raised from valve L, and the steam in B at once escapes, and D supplied with oil, by pouring the latter into A.

By thus depressing lever F, and securing it by catch H, the pipe B is closed on valve L, valve I opened, and oil from D allowed to pass into the cylinder.

A stop or pin, e, which passes through the stem J, limits the descent of the valve L.

The superiority of this invention consists in the fact that there are no "plugs" to get out of order, or injured or cut by sand, a contingency of common occurrence with the ordinary lubricators. The device may also be more readily supplied with oil than other devices for the same purpose.

Having thus described my invention,

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

The two valves L I, pipes B E, oil-chamber D, and lever F, all constructed and arranged to operate in the manner substantially as and for the purpose set forth.

GEORGE GIRTY.

Witnesses:

DEAN BLANCHARD,
G. O. WILLIAMS.