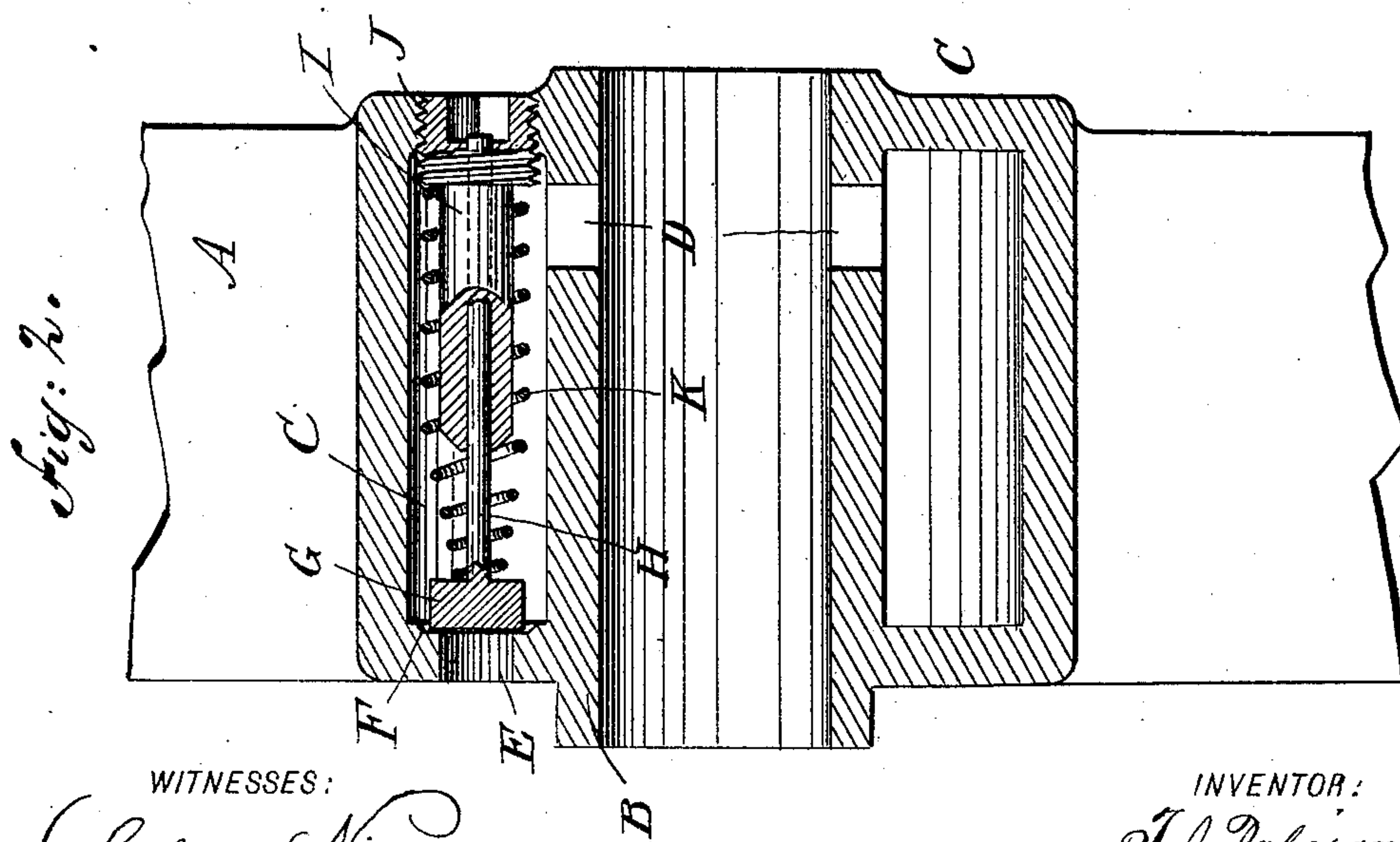
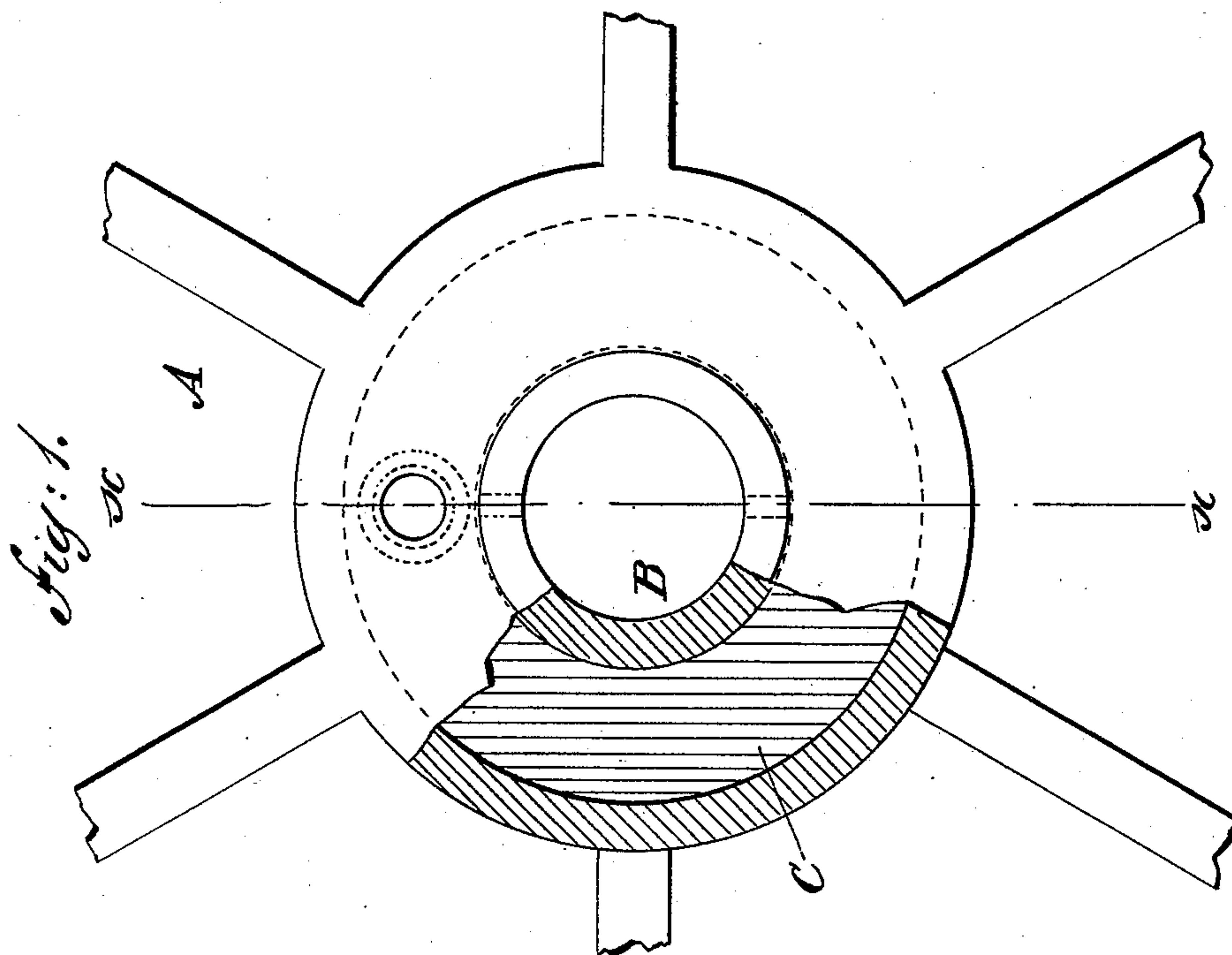


(No Model.)

T. J. ROBISON.
WHEEL LUBRICATOR.

No. 452,681.

Patented May 19, 1891.



WITNESSES:

Chas. Nida
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INVENTOR:

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UNITED STATES PATENT OFFICE.

TOLBERT J. ROBISON, OF CURWENSVILLE, PENNSYLVANIA.

WHEEL-LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 452,681, dated May 19, 1891.

Application filed August 22, 1890. Serial No. 362,756. (No model.)

To all whom it may concern:

Be it known that I, TOLBERT J. ROBISON, of Curwensville, in the county of Clearfield and State of Pennsylvania, have invented a new and Improved Wheel-Lubricator, of which the following is a full, clear, and exact description.

The invention relates to that class of car-wheels, loose pulleys, and wheels in general wherein an oil-chamber or a lubricant-receiver is formed in the hub of the wheel and is combined with devices for conducting the oil to the axle or bearing-surfaces.

The object of the invention is to provide a new and improved lubricator, which is simple and durable in construction, very effective in use, and not liable to get out of order.

The invention consists of certain parts and details and combinations of the same, as will be hereinafter fully described, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a face view of the central part of a wheel provided with the improvement, parts being in section; and Fig. 2 is a transverse section of the same on the line *xx* of Fig. 1.

The wheel A, on which the lubricator is applied, is provided with the usual hub B, around which is formed an oil-chamber or lubricant-receiver C, connected by openings D in the hub B with the bearing-surfaces, so that the lubricant can flow from the chamber C through the said openings D to the bearing-surfaces. In the open outer end of the oil-chamber or lubricant-receiver C is formed an opening E, the inside of which is surrounded by a valve-seat F, on which is adapted to be seated a valve G for closing the opening E. The valve G is secured on a valve-stem H, fitted to slide in a central bore formed in a plug I, extending into the oil-chamber or lubricant-receiver C, and provided with a screw-thread J, screwing in the inner end of the oil-chamber C opposite the opening E. A spring K is coiled on the plug I and presses with its free end on

the valve G, so as to hold the latter to its seat F, surrounding the opening E.

When the device is in the position shown in the drawings, the spring K firmly holds the valve G to its seat F, so that the lubricant contained in the oil-chamber or lubricant-receiver C can only pass through the openings D to the bearing-surfaces. When the operator desires to fill the lubricant-receiver C with a lubricant, then he passes the nozzle of the oil-can into the opening E and presses with the same against the valve G, so that the latter moves inward and the contents of the inverted oil-can are deposited into the receiver C. As soon as this is accomplished, the operator removes the nozzle of the oil-can from the opening E, so that the previously-pressed spring K again forces the valve G onto its seat F, thus effectively closing the opening E and preventing all escape of the lubricant contained in the chamber C.

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

1. The combination, with a wheel-hub having the transverse open-ended oil chamber or receiver C, provided with openings leading to the axle-box, of a plug having a longitudinal bore and externally threaded at its outer end, a valve F outside of the plug, provided with a stem entering the bore at the inner end of the plug and closely fitting it, and a spring bearing against the inner face of the valve and pressing it away from the plug, substantially as set forth.

2. In a wheel-lubricator, the combination, with an oil-chamber or lubricant-receiver provided in one end with an opening, of a plug having a central bore and screwed in the other end of the said chamber opposite the said opening, a valve-stem fitted to slide in the said bore, and a spring-pressed valve held on the said valve-stem and adapted to be seated over the said opening, substantially as shown and described.

TOLBERT J. ROBISON.

Witnesses:

ROLAND D. SWOOPE,
W. C. MCCLOSKEY.