

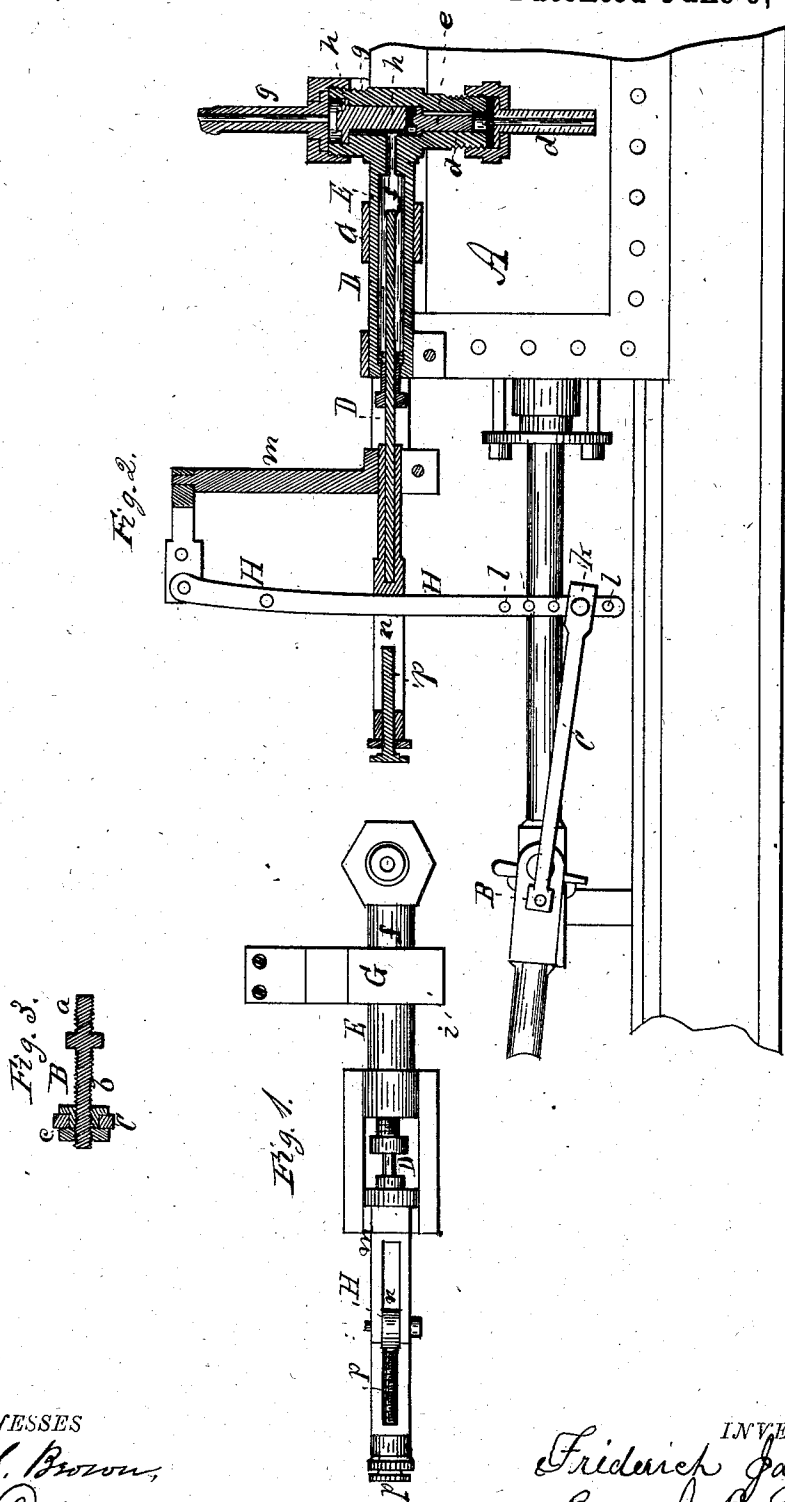
(No Model.)

F. JARECKI.

LUBRICATOR FOR STEAM ENGINES.

No. 259,022.

Patented June 6, 1882.



WITNESSES

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UNITED STATES PATENT OFFICE.

FRIDERICH JARECKI, OF ERIE, PENNSYLVANIA.

LUBRICATOR FOR STEAM-ENGINES.

SPECIFICATION forming part of Letters Patent No. 259,022, dated June 6, 1882.

Application filed April 28, 1882. (No model.)

To all whom it may concern:

Be it known that I, FRIDERICH JARECKI, a citizen of the United States, residing at Erie, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Lubricators for Steam-Engine Cylinders; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification—

Figure 1 being a side view and partial vertical section of my improved lubricator as applied to an engine-cylinder; Fig. 2, a top view of the lubricator; Fig. 3, a view of a part detached.

Like letters designate corresponding parts in all of the figures.

Let A represent a portion of a steam-engine cylinder, and B the bolt at the eccentric cross of the engine. This bolt I construct in a peculiar manner, as shown in Fig. 3. Instead of being a simple bolt, it has a double shank, one part, *a*, to enter the eccentric cross and the other part, *b*, screw-threaded to receive a bearing, *c*, adjustable out or in, so as to place the connecting-rod C, by which I operate the lubricator, in any position required by the position of the lubricator on the engine.

The lubricator operates by means of a reciprocating plunger, D, which works in an oil-pumping cylinder, E, and draws the oil up from a reservoir through the pipe *d*, containing the valve *e*, and from the pump-chamber *f* another pipe or passage, *g*, having the valve *h*, conducts the oil brought up from the oil-reservoir to the inside of the engine-cylinder. The oil-cylinder E is held and clamped in a split or divided bearing, G, which is screwed in a convenient position upon the engine-cylinder A. A set-screw, *i*, enables the oil-cylinder to be adjusted to any position, so that the connecting-rod C may connect with and be pivoted to the lever H, which moves the oil-plunger D in the position required, and the said lever may be placed in just the position desired. These adjustments of the connect-

ing rod C and oil-cylinder E are therefore related to each other, and these adjustments are an important feature of construction in my lubricator.

The pivot *k*, connecting the lever H with the connecting-rod C, is or may be adjustable at different points on the lever, as at *l l*, so as to move the lever more or less with the uniform movement of the eccentric cross. The upper end of this lever is pivoted to a standard, *m*, on a projecting slotted frame or bar, I, which extends outward from the oil-cylinder to support the plunger, substantially as shown. The lever swings in a slot, *n*, of the plunger D, and at its inner oscillation it strikes a fixed part of the plunger at the inner termination of the slot *n*, thus driving the plunger inward at each stroke of the engine, and in its outward oscillation the lever strikes an adjusting-screw, *p*, capable of being turned out or in in the plunger-head, so as to cause the plunger to be moved more or less outward at each outward oscillation of the lever. By this adjustment I can move the plunger little or much at pleasure—say from a sixteenth of an inch upward.

The whole device is simple and effective and constant in its action, and by it I can introduce into the engine-cylinder just as much oil as needed and no more, thus avoiding any waste of oil.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of the adjusting-bolt B, connecting-rod C, lever H, cylinder E, and adjustable bearing G, substantially as and for the purpose herein specified.

2. The slotted plunger D, in combination with the lever H, substantially as and for the purpose herein specified.

3. The adjusting-screw *p* in the outer end of the plunger D, in combination with the lever H, substantially as and for the purpose herein specified.

In testimony whereof I affix my signature in presence of two witnesses.

FRIDERICH JARECKI.

Witnesses:

CHS. UTREUBER,
JACOB F. WALTHER.