

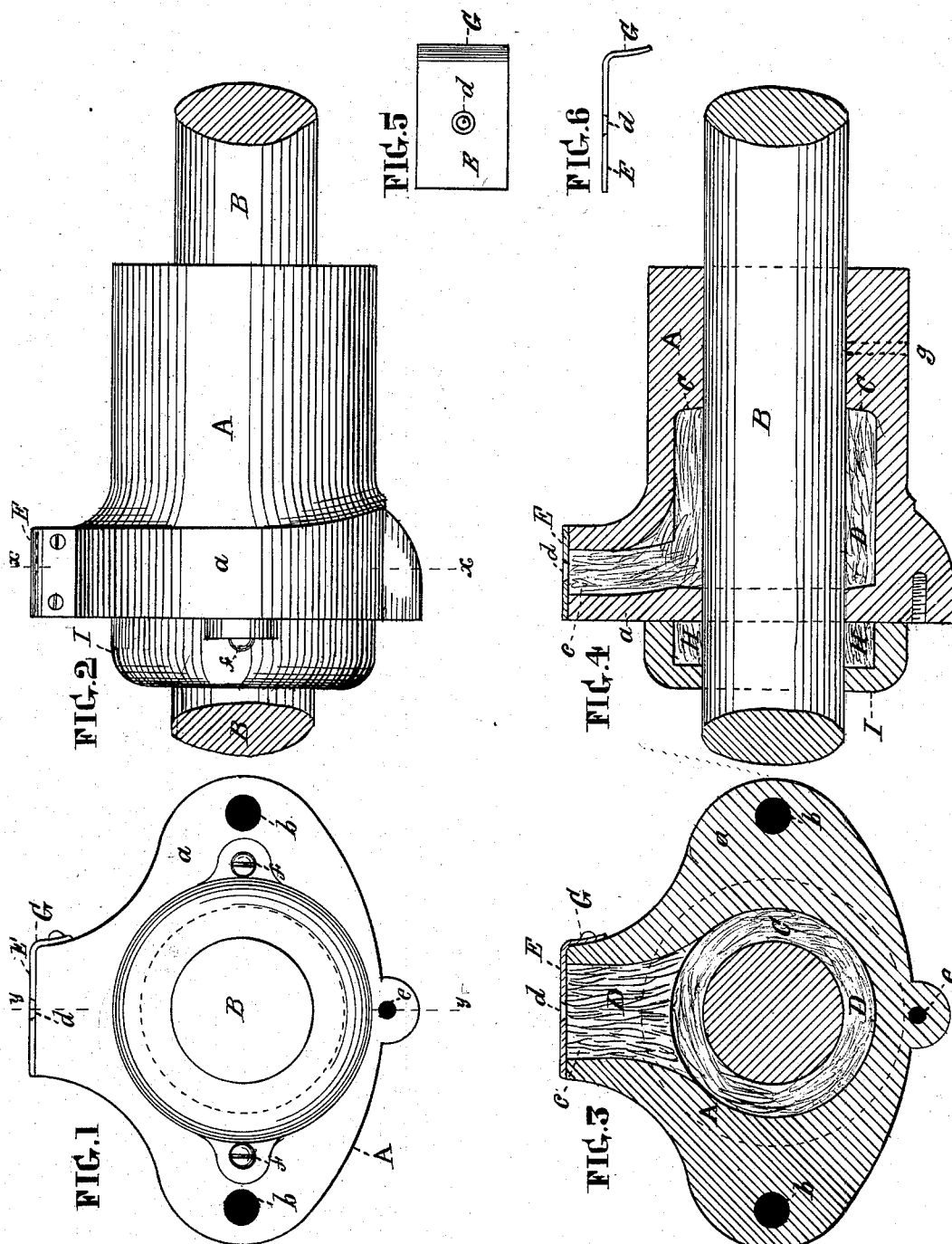
(No Model.)

S. HOFFMASTER & G. W. ARTHUR.

LUBRICATOR FOR PISTON RODS.

No. 263,905.

Patented Sept. 5, 1882.



Witnesses
Thomas J. Dewley.
William Cohlman

Inventors
Solomon Hoffmaster
George W. Arthur
Per. Stephen Votick atty.

UNITED STATES PATENT OFFICE.

SOLOMON HOFFMASTER, OF HARRISBURG, AND GEORGE W. ARTHUR, OF
ALTOONA, PENNSYLVANIA.

LUBRICATOR FOR PISTON-RODS.

SPECIFICATION forming part of Letters Patent No. 263,905, dated September 5, 1882.

Application filed November 28, 1881. (No model.)

To all whom it may concern:

Be it known that we, SOLOMON HOFFMASTER, a citizen of the United States, residing at Harrisburg, in the county of Dauphin and State of Pennsylvania, and GEORGE W. ARTHUR, a citizen of the United States, residing at Altoona, in the county of Blair and State of Pennsylvania, have invented a new and useful Improvement in Lubricators for Piston-Rods, Valve-Stems, &c., of which the following is a specification.

Our invention consists in the combination, with a piston-rod or valve-stem, of a gland having an annular chamber, for containing waste or other suitable materials, provided with a mouth for the insertion of the same and a cover to the mouth, as hereinafter fully described.

In the accompanying drawings, which make a part of this specification, Figure 1 is a front view of the gland A. Fig. 2 represents a side elevation of the gland in connection with the rod B. Fig. 3 is a cross-section at the broken line *xx* of Fig. 2. Fig. 4 is a vertical longitudinal section through the line *yy* of Fig. 1, the piston-rod being in side elevation. Fig. 5 is a top view of the cover E and spring G in a single piece. Fig. 6 is an edge view of the same.

Like letters of reference in all the figures indicate the same parts.

A represents a follower or gland having our improvements for lubricating the rod B, and *a* the flange of the gland having bolt-holes.

C is a chamber for containing waste D or other suitable material to be saturated with oil for lubricating the rod B. It surrounds the rod and extends through the upper edge of the flange *a*, which is widened at this part to give as great width as practicable to the chamber at such point for increasing its capacity for holding the material, and also to provide for filling the chamber therewith without having a removable part to the gland for that purpose, thus accomplishing the desideratum of making the gland in a single piece.

Another object of this construction is the increasing the capacity of the chamber. The mouth is provided with a cover, E, to protect the waste from dirt or dust. The cover is held

in its place by means of the spring G or other suitable means, which may afford convenience in the expeditious removal of the cover for access to the chamber for refilling or renewal of the waste or resupplying it with oil. The latter operation may be accomplished, however, through the small opening *d* in the cover E.

The cover and spring may be made in a single piece, as represented in the drawings.

To prevent the waste of oil at each outward stroke of the piston-rod we combine with the rod and the front end of the gland a swab, H, which surrounds the rod and is held sufficiently tight against it and against the end of the gland by means of the cover I, which also serves to protect the swab from dirt or dust.

The cover is confined in its place by means of the screws *ff*. One of them may be connected with the ear *e* when it is desirable to turn the cover partly around for want of room between the holes *b*.

There is a perforation, *g*, through the under side of the gland in the rear of the chamber C, for the escape of condensed steam, for the purpose of preventing it being blown out through the absorbing and lubricating filling D.

It will be seen that ample means are afforded by our improvements for keeping up the necessary supply of oil and also of preventing the waste of oil which occurs with other lubricators, and that great compactness is accomplished in dispensing with the ordinary oil-cup, and simplicity and cheapness of the lubricator are attained.

We claim as our invention—

The combination, with a piston-rod or valve-stem, of the gland A, having an annular chamber, C, terminating with a wide mouth at the upper edge of the flange for increasing the capacity of the chamber and providing for filling the same, the mouth being provided with the cover E, substantially in the manner and for the purpose described.

SOLOMON HOFFMASTER.
G. W. ARTHUR.

Witnesses:

PHILIP HALTON,
JOHN O'TOOLE.