

(No Model.)

C. W. BOOTH.
LUBRICATOR.

No. 283,695.

Patented Aug. 21, 1883.

Fig. 1.

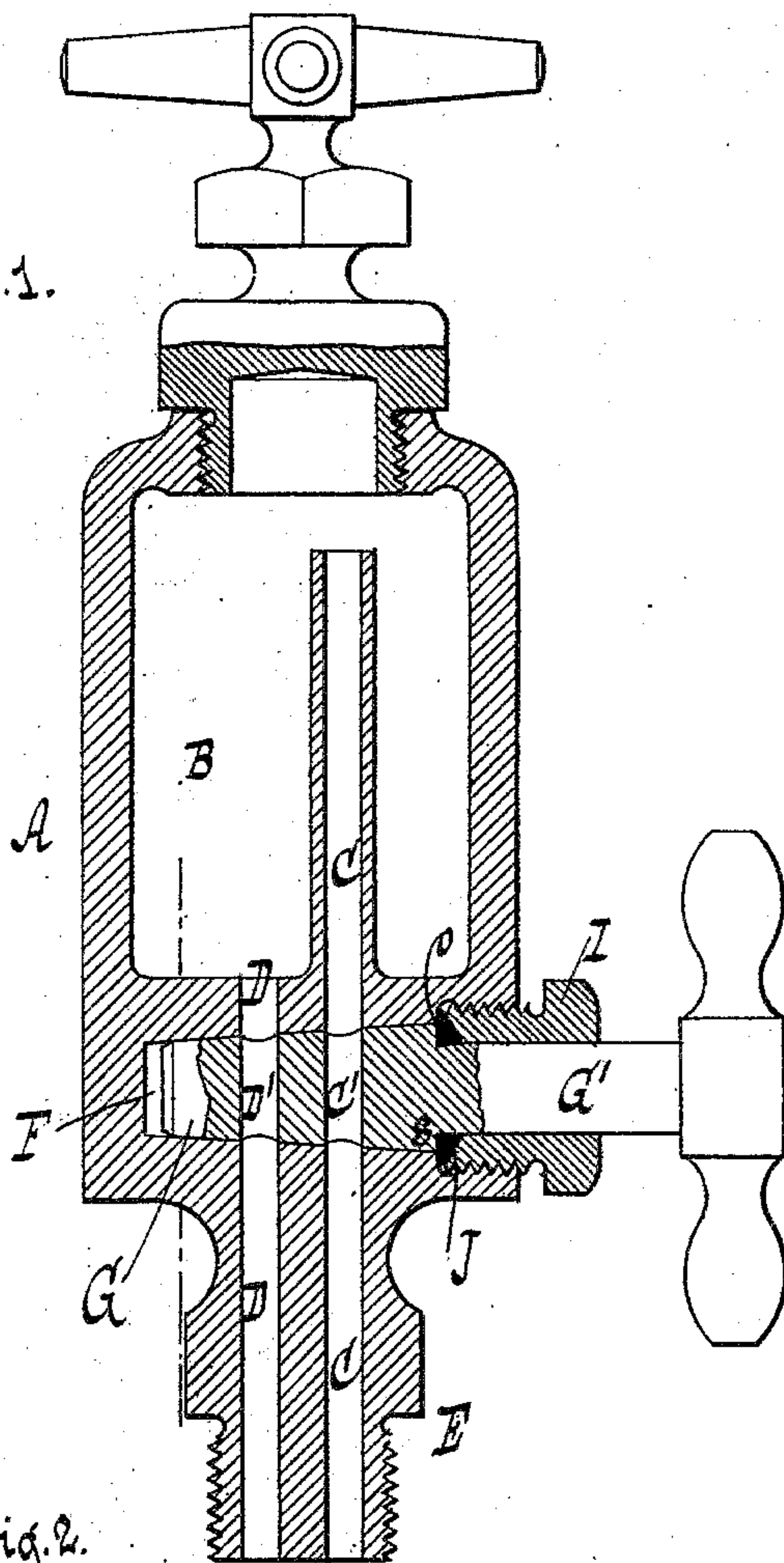
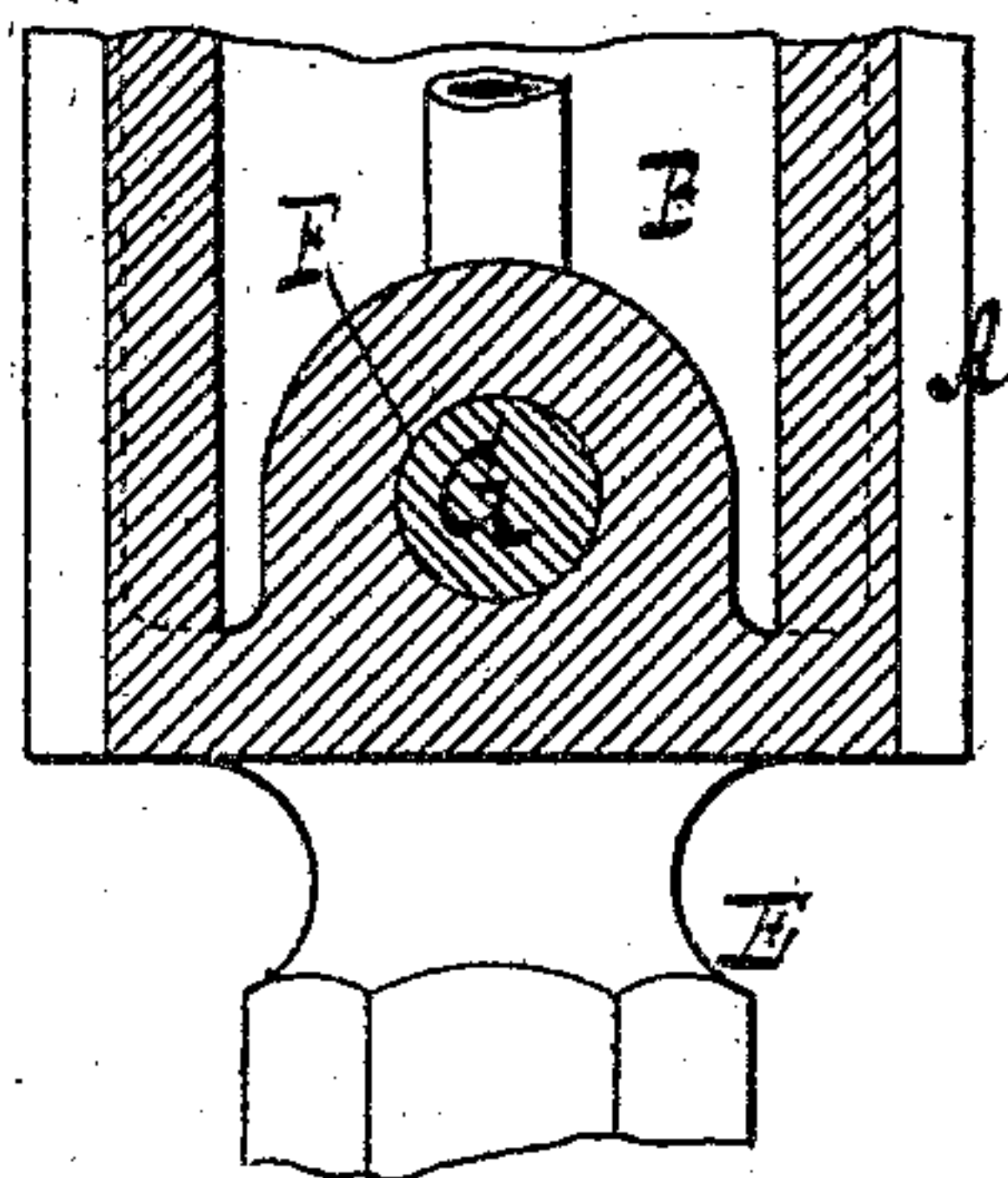


Fig. 2.



WITNESSES:

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CONSTANT W. BOOTH, OF BROOKLYN, NEW YORK.

LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 283,695, dated August 21, 1883.

Application filed May 11, 1883. (No model.)

To all whom it may concern:

Be it known that I, CONSTANT W. BOOTH, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented new and useful Improvements in Lubricators, of which the following is a specification.

This invention relates to that class of lubricators in which steam is admitted to the upper portion of the oil-chamber through a vertical passage for discharging the oil at the bottom of the chamber through a second vertical passage, the flow of the steam and oil being regulated by a cock which is common to both passages.

The novel feature of my lubricator is the construction and arrangement of the cock, as hereinafter described, and as illustrated in the accompanying drawings, in which—

Figure 1 represents a sectional side elevation, and Fig. 2 a cross-section.

Similar letters indicate corresponding parts.

The letter A designates the shell of a lubricator, comprising the oil-chamber B and two vertical passages, C D, one serving to admit steam to the upper part of the chamber and the other to discharge the oil at the bottom of the chamber. Said passages C D extend through a central stem, E, formed on the lower part of the shell A to support the lubricator, and also extend through the bottom of the oil-chamber, while the oil-passage C is properly elongated by a tube rising to a point near the top of the chamber. In that portion of the shell A constituting the bottom of the oil-chamber is a socket, F, which opens in a lateral direction and intersects the vertical passages C D, and into which is fitted a cock, G, having two ways, C' D', adapted to register with said passages. The socket F is enlarged at the outer or open end to form a shoulder, o, near such end, and is provided with a screw-thread in its enlarged part to receive a screw-ring, I, which is fitted snugly to the stem G' of the cock. At the junction of the stem G' with the cock is formed a shoulder, s, which is substantially flush with the shoulder o of the socket, and forms, together with said shoulder o, a seat for a packing, J, which is clamped in position by the screw-ring I, thus forming a tight joint between the cock and socket.

The cock G has heretofore been fitted in a socket formed in the stem E of the shell; but this arrangement thereof renders it necessary to provide the stem with a laterally-projecting neck, which, if made in one piece with the shell, prevents its being "turned" in a lathe, which is necessary to the economical manufacture of the lubricator, and if made separate from the shell is extremely weak and liable to twist or break. A cock has also heretofore been arranged at a point intermediate of the top and bottom of the oil-chamber; but in this position thereof considerable difficulty is had in casting the shell with a socket to receive the cock, and hence the apparatus is expensive to manufacture, while such cock, moreover, interferes with the free flow or circulation of the oil, and materially decreases the area of the chamber. By my arrangement of the cock G in the bottom of the oil-chamber, and entirely above the stem E and below the body of the chamber, I am enabled to "turn" as well as to cast the shell without difficulty, and at the same time render the cock very effective in operation.

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

The combination, substantially as hereinbefore set forth, of the shell forming the oil-chamber, provided with vertical passages communicating with the oil-chamber and with a lateral socket in the bottom of the oil-chamber, such socket intersecting the vertical passages and having its outer end enlarged in diameter to form the shoulder o, the two-way cock fitted into the socket and provided with two parallel ways, also with the shoulder s flush with the shoulder of the socket, the packing, and the screw-ring arranged in the enlarged end of the socket to clamp the packing against the shoulders of the socket and cock.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

CONSTANT W. BOOTH. [L. S.]

Witnesses:

W. HAUFF,

CHAS. WAHLERS.