N. SEIBERT.

Feed-Indicator for Oil-Cup.

No. 214,589. Patented April 22, 1879.

Fig. 1.

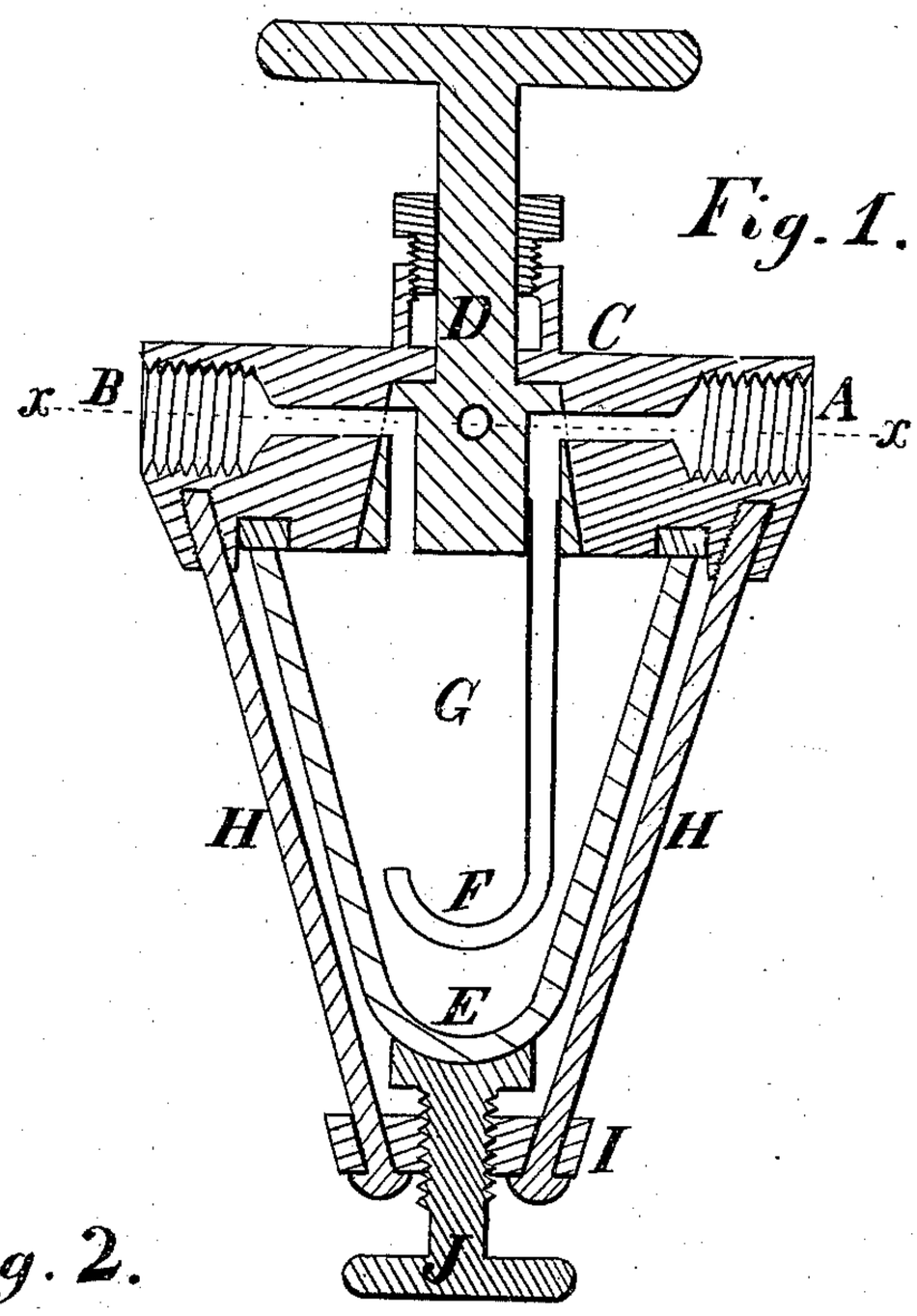


Fig. 2.

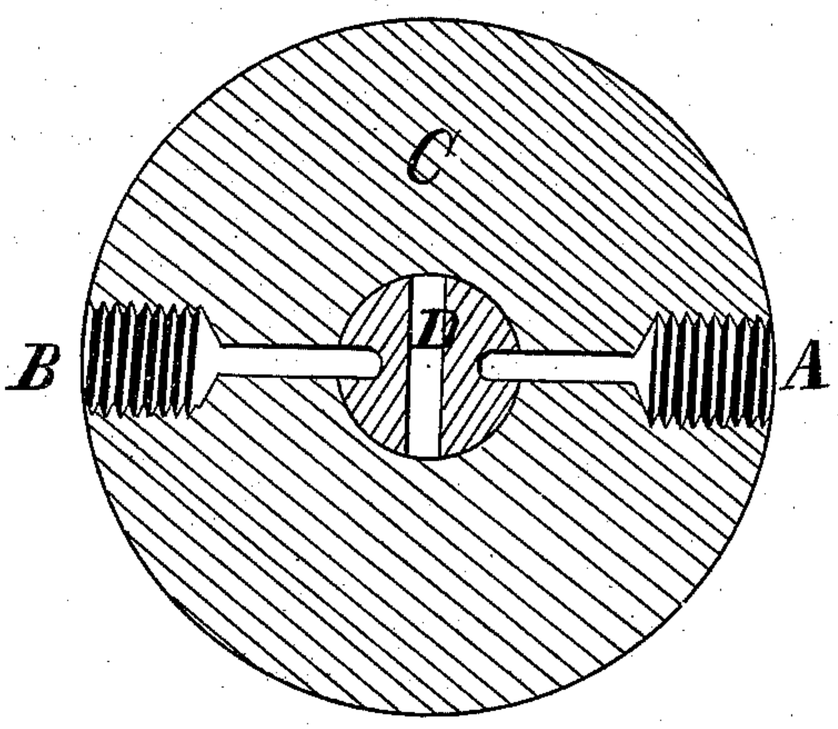
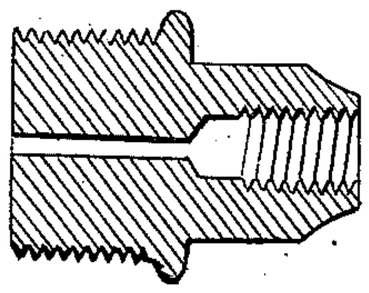


Fig. 3.



Witnesses;

A. S. Bowmell

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UNITED STATES PATENT OFFICE.

NICHOLAS SEIBERT, OF MALDEN, MASSACHUSETTS, ASSIGNOR TO THE SEIBERT CYLINDER OIL CUP COMPANY, OF HARTFORD, CONNECTICUT.

IMPROVEMENT IN FEED-INDICATORS FOR OIL-CUPS.

Specification forming part of Letters Patent No. **214,589**, dated April 22, 1879; application filed August 21, 1878.

To all whom it may concern:

Be it known that I, NICHOLAS SEIBERT, of Malden, in the county of Middlesex and State of Massachusetts, have invented a new and Improved Feed-Indicator and Reducing-Plug Attachment for Oil-Cups, of which the following, when taken in connection with the accompanying drawings, is a full, clear, and exact description.

The nature of this invention consists in the peculiar construction and arrangement of the different parts of an apparatus for passing oil through a glass cup containing water, by which the quantity of oil passing may be seen, and in the use of a peculiarly-constructed reducing-plug, by the use of which an equable pressure is maintained in the oil-discharge pipe.

Figure 1 shows a sectional view of the feed-indicator, E representing a glass cup covered by a metal top, C, which has openings A and B, for connecting the pipes for receiving and discharging oil respectively.

The rods H H are fastened into the top C, and extend on either side of cup E through the plate I.

The screw J passes through plate I, and, bearing upon the bottom of cup E, holds the cup and top firmly together, and a suitable washer inserted between them forms a tight joint.

D is a three-way cock, the central passage extending horizontally through it from side to side, the two remaining passages connecting one with opening A, the other with opening B, and extending downward to the chamber G in the cup E.

F is a tube leading from the passage in cock D, connecting with opening A, to near the bottom of chamber G, the lower portion forming a semicircle and opening into chamber G.

Fig. 2 shows a cross-section of the top C through the point X, showing the direct passage through the three-way cock D and the passages connecting with openings A and B.

Fig. 3 is a sectional view of a reducing-plug, having a small opening or communication through it from one end to the other.

This feed-indicator is to be attached to the feed or oil discharge pipe of any oil-cup at the openings A and B. The oil passing in through the opening A passes down through the tube F, and is discharged into the water with which chamber G is filled, and can thus be seen as it rises by force of gravitation through the water and passes out through the passage in cock D, which communicates with the opening B. When desired, the three-way cock D may be turned one-quarter round, bringing the direct passage opposite the openings A and B, and allowing direct communication through the same.

The cup E may be removed for cleaning, or any other purpose, by loosening the screw J; and suitable cocks or valves may be attached to either or both pipes connected with the feed-indicator for regulating the passage of oil.

The reducing-plug, Fig. 3, is designed to be placed in the discharge-pipe leading from the feed-indicator or other oil-cup, and may be located at any point therein, though preferably near the steam-chest, for maintaining a nearly equable pressure in the pipe above the point at which it is placed.

The discharge-pipe being connected and opening into the steam-chest, (the pressure in which varies somewhat, being the least as the ports are opened to admit steam to the cylinder, and greater while the ports are closed,) and the reducing-plug being placed in the discharge-pipe, the pressure in the discharge-pipe above the reducing-plug is maintained at the medium pressure in the steam-chest, since the opening through the plug is so small that, although the pressure is varied in the steam-chest, it permits neither the passage of oil in one direction nor steam in the other quickly enough to reduce or increase the pressure in the oil-discharge pipe above that point.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination and arrangement of the inlet A, the outlet B, the three-way cock D, the glass cup E, and the tube F, constructed and arranged as and for the purposes described.

2. The reducing-plug constructed and operating as and for the purposes specified.

NICHOLAS SEIBERT.

Witnesses:
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