

(No Model.)

R. J. HOFFMAN.
LUBRICATOR.

No. 286,005.

Patented Oct. 2, 1883.

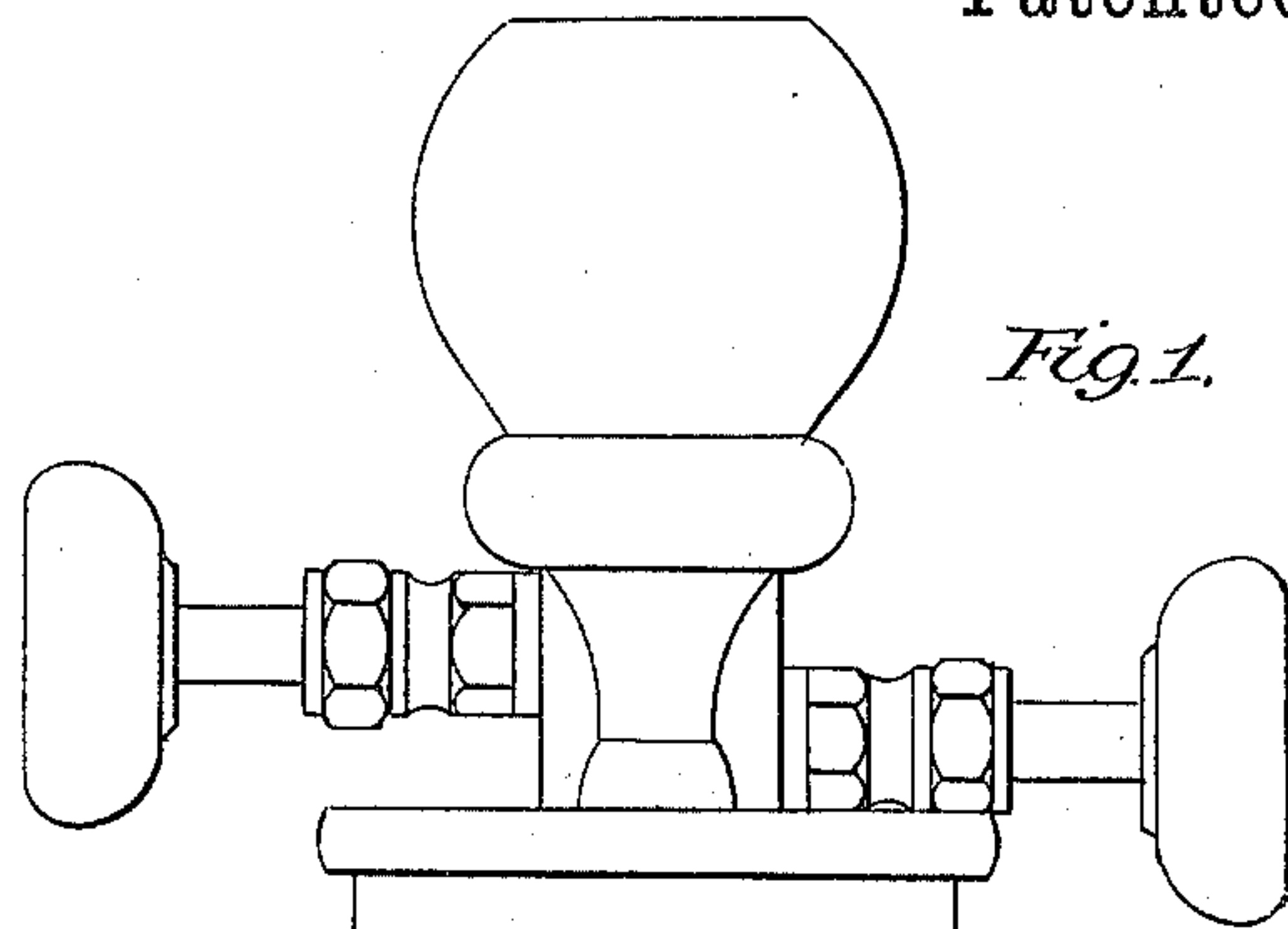


Fig. 1.

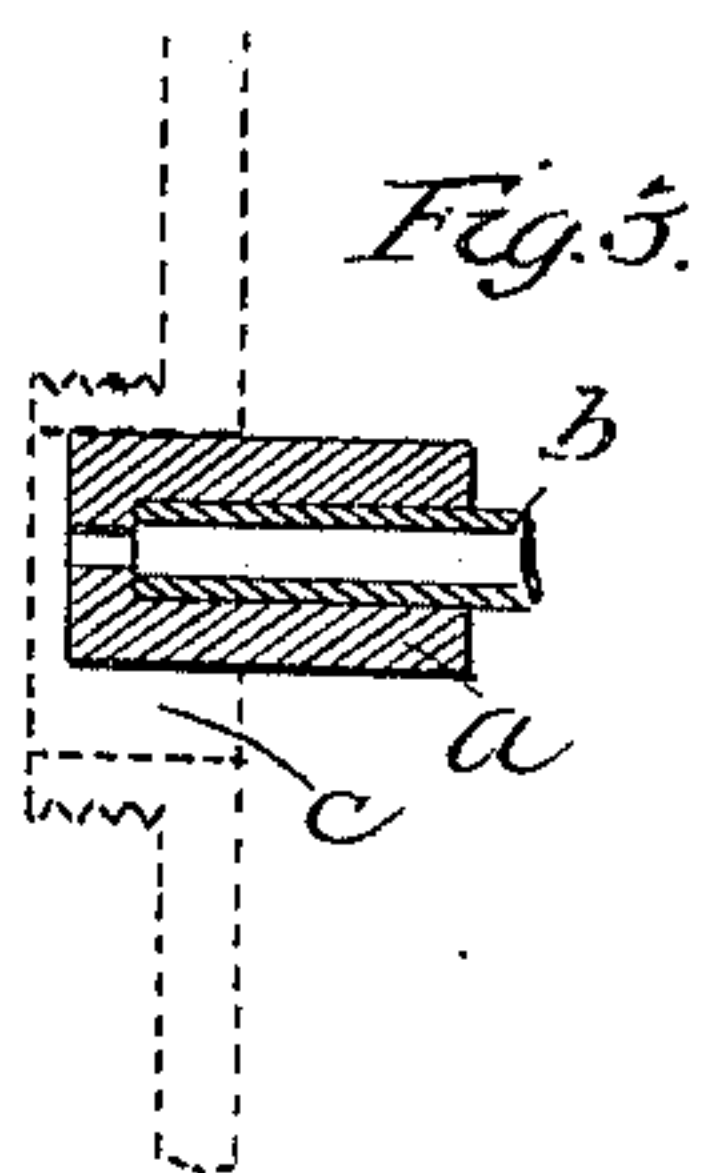


Fig. 3.

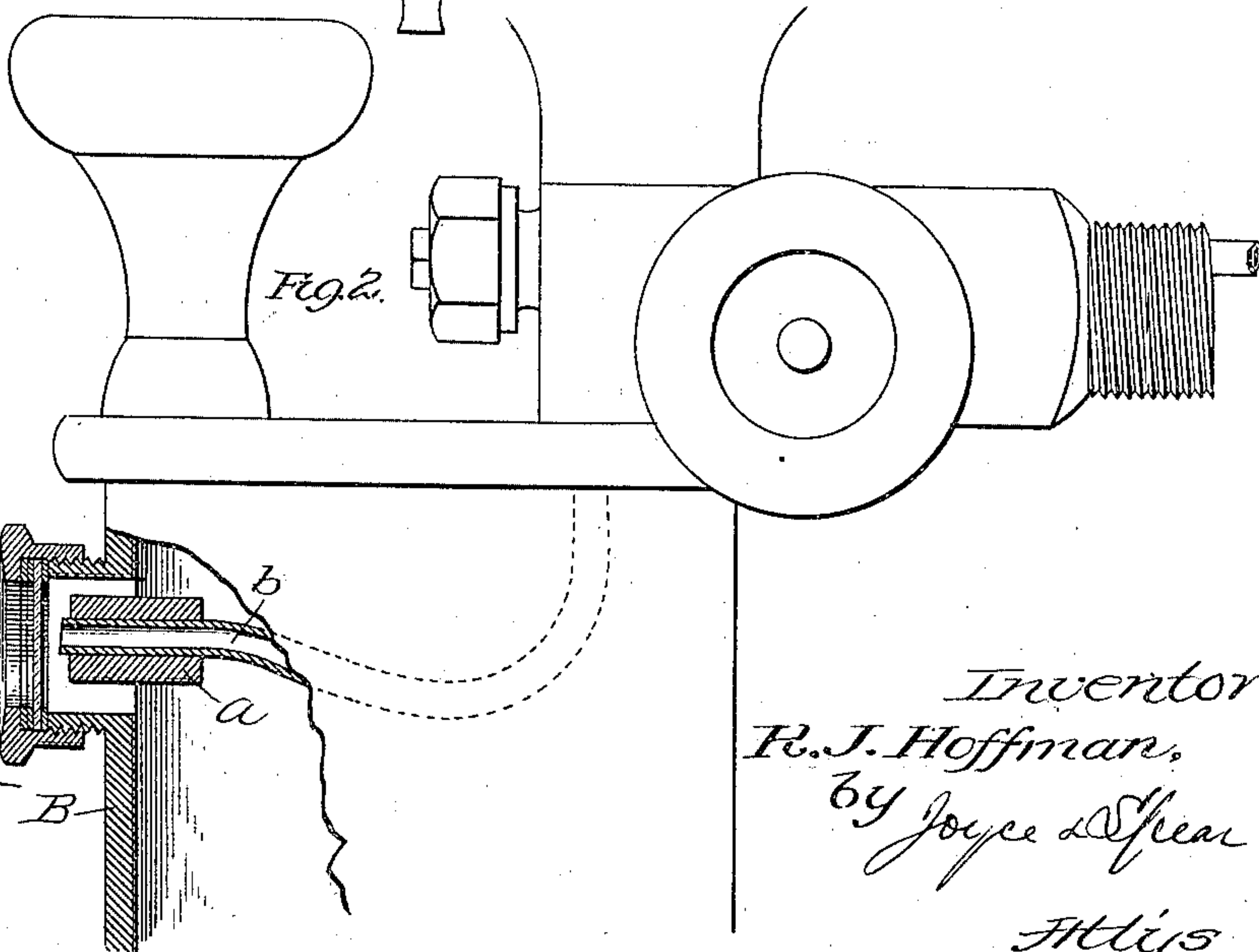


Fig. 2.

Attest:
Walter M. Adams
J. E. Middleton

Inventor
R. J. Hoffman,
by Joyce & Spear
Attys

UNITED STATES PATENT OFFICE.

ROSS J. HOFFMAN, OF BINGHAMTON, NEW YORK.

LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 286,005, dated October 2, 1883.

Application filed August 17, 1883. (No model.)

To all whom it may concern:

Be it known that I, ROSS J. HOFFMAN, of Binghamton, in the county of Broome and State of New York, have invented a new and useful Improvement in Sight-Feed Lubricators; and I do hereby declare that the following is a full, clear, and exact description of the same.

My invention relates to sight-feed lubricators of that class in which the feed-tube is placed with its open end opposite the glass window of the metallic oil-cup. In lubricators of this class the comparatively small size of the tubular extension or hollow boss in which the window or "bull's-eye" is set renders the interior thereof somewhat dark, and it is not always easy to see whether or not the lubricator is properly feeding.

The object of my invention is to overcome this difficulty, and also to provide a sight-feed adapted to different kinds of oil more or less transparent.

To this end my invention consists of a white background for the drops of water, of porcelain or equivalent material capable of preserving its surface untarnished by the oil, and in a movable background adapted to be adjusted to front or rear, according as the oil is more or less transparent.

In the accompanying drawings, Figure 1 shows an end or front view of the "sight-feed" of the bull's-eye or window, the cup being in outline. Fig. 2 shows a vertical section through the bull's-eye or feed-tube. Fig. 3 shows a modification.

The primary idea or basis of my invention is to place a broad white surface, preferably of porcelain, to form a back of the glazed aperture of the cup, through which the end of the feed-tube is visible. This causes the reflected rays to lighten the otherwise dark cavity behind the glass and show more plainly the drops of water as they fall. Heretofore the end of the tube has been depended upon to show these drops, this tube being of bright metal surface, such as brass or nickel; but this end is only a spot in a dark chamber or cavity. I propose to substitute for the dark cavity a white or practically white background, which

shall light up the cavity itself by the gathered and reflected rays.

In carrying out my invention I secure both of the objects sought by means of a tube or sleeve of porcelain. (Shown at *a*.) It is placed in the hollow boss or tube of the metal cup *B*, and is of sufficient size so that the end facing the glass forms the back of the chamber in which the drop falls. The bore of the tube is such that it fits closely over the end of the feed-tube *b*. In Fig. 1 I have shown the end of this tube projecting through the porcelain tube; but this is not necessary, as the porcelain tube may be made with the bore reduced at the end, as in Fig. 3. In this case the porcelain tube forms the mouth-piece as well as the background. The porcelain tube may fill the entire space within the boss or chamber, excepting an opening, *c*, below, to allow the water to run back into the cup, as shown in Fig. 3.

The tube of porcelain may be adjusted to front or rear, according as the oil is clear or dark. I do not confine myself to this particular construction of the tube to form a background, as the background may be made out of the same kind of material in different shape; nor do I limit myself to the material porcelain, as other white or nearly white material—such as rubber—may be used. The surface should be smooth, so that the oil will not adhere, but need not be polished.

I claim—

1. In a sight-feed lubricator of the class described, a practically white background located in the chamber or hollow boss at or behind the opening of the feed-tube, substantially as described.

2. In combination with the feed-tube of the lubricator and the hollow boss or chamber having a glass front, the tube *a*, of porcelain or equivalent material, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ROSS J. HOFFMAN.

Witnesses:

L. W. SEELY,
I. B. THOMPSON.