(No Model.)

T. W. SHERIFFS.

FEED INDICATOR FOR OIL PUMPS.

No. 371,983. Patented Oct. 25, 1887

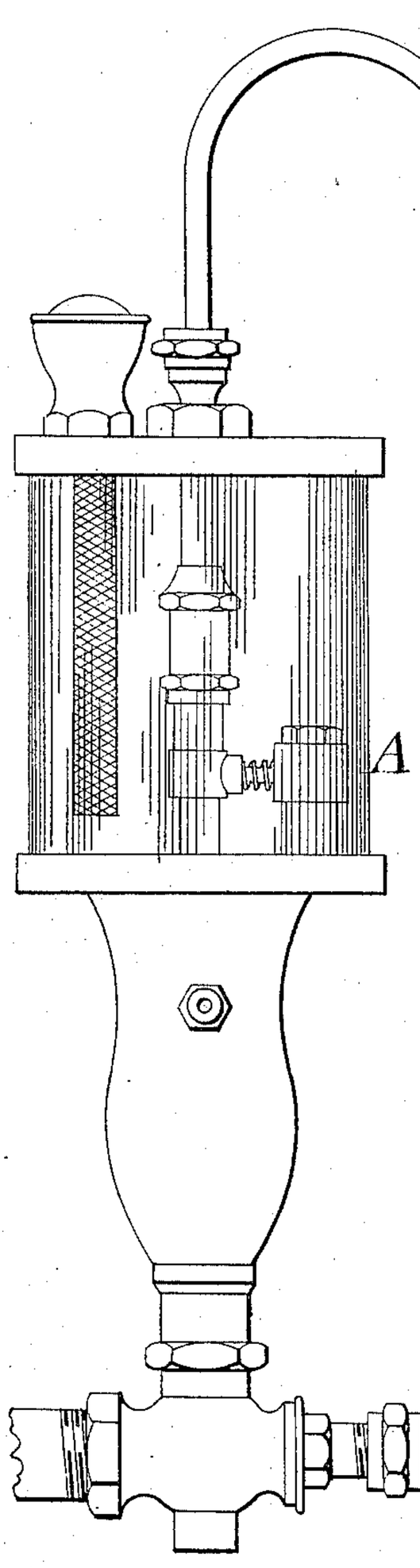
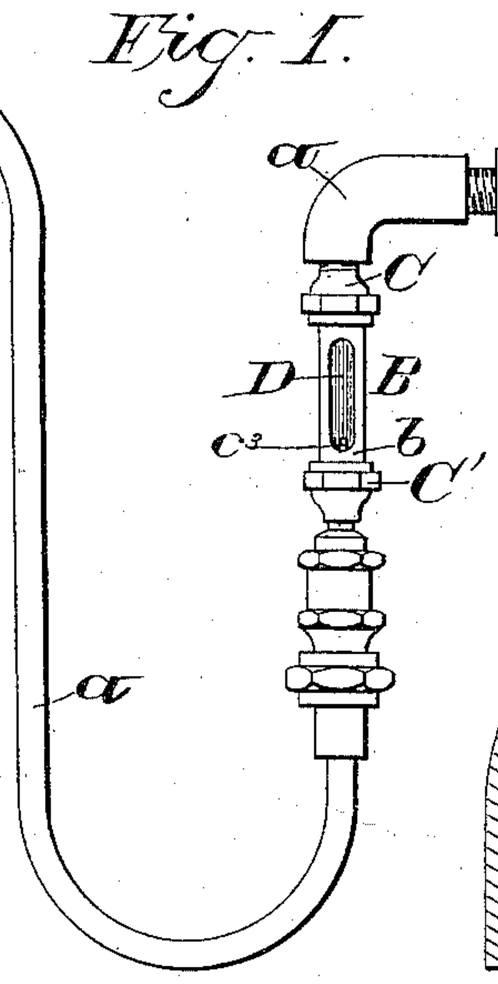


Fig. 1.



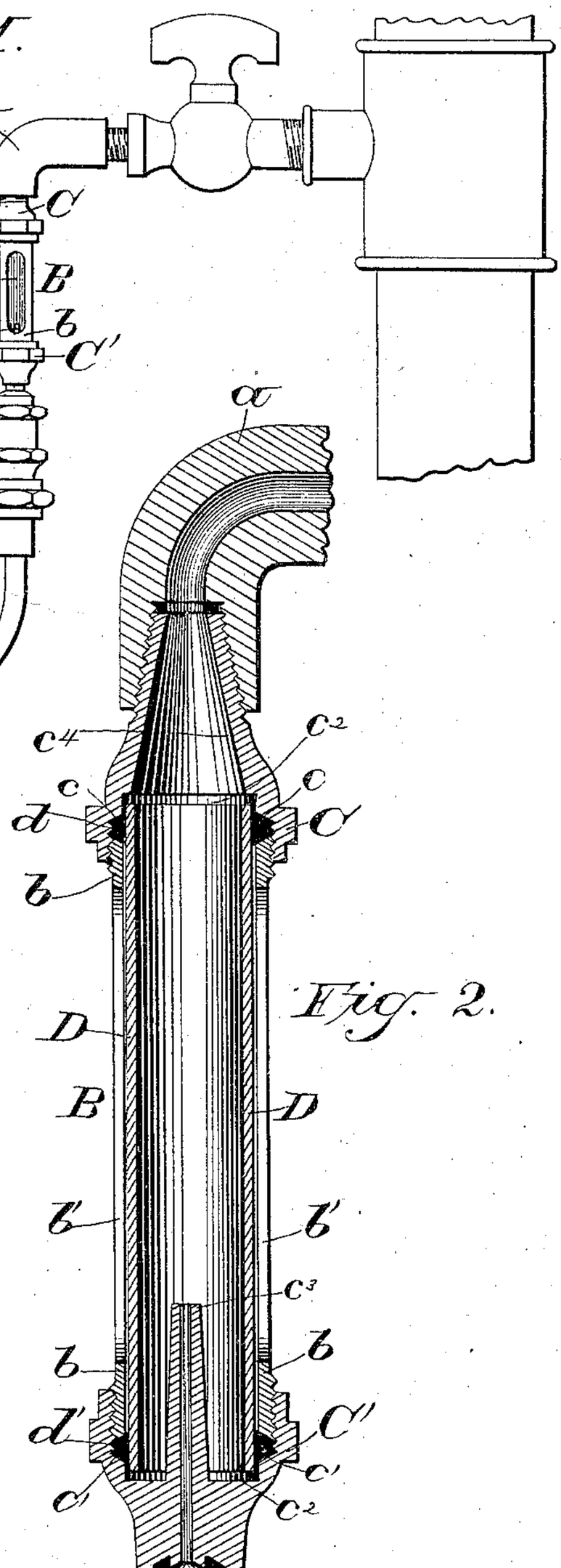


Fig. 2.

Witnesses:
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UNITED STATES PATENT OFFICE.

THOMAS W. SHERIFFS, OF MILWAUKEE, WISCONSIN.

FEED-INDICATOR FOR OIL-PUMPS.

SPECIFICATION forming part of Letters Patent No. 371,983, dated October 25, 1887.

Application filed October 14, 1884. Serial No. 145,539. (No model.)

To all whom it may concern:

Be it known that I, THOMAS W. SHERIFFS, of Milwaukee, in the county of Milwaukee, and in the State of Wisconsin, have invented certain new and useful Improvements in Feed-Indicators for Oil-Pumps; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to improvements in oil-pumps and lubricators; and it consists in peculiarities of construction, as will be fully described hereinafter.

In the drawings, Figure 1 represents an oil-pump fitted with a feed indicating device embodying my invention, and Fig. 2 is a longitudinal section through the center of my feed-indicator.

A indicates the oil-pump, and *a* is the feed-pipe which carries the feed-indicator B. This consists of the shell or guard *b*, which is simply a pipe-section of any suitable length slotted at opposite points, as at *b' b'*, and having both ends screw-threaded to fit in the correspondingly-threaded inner rim of the upper and lower copes, C C', by means of which the said shell or guard is connected to the pipe *a*. Fitting loosely inside of the shell *b*, and projecting slightly from each end of the same, is the glass pipe-section D, the outward-projecting ends of which are covered by elastic rings *d d'*. The inner faces of the copes are shouldered at *c c'*, just beyond the screw-thread cut in the same, and against these shoulders the elastic rings *d d'* will rest when the parts are brought together. Each of the copes is slightly recessed beyond the shoulders *c c'*, as shown at c^2 c^2, to allow expanding-room for the glass pipe-section D. The lower cope, C', is provided with the usual vertical spout, c^3, projecting in the center of the same upward toward a point slightly above the lower edges of the slots *b' b'* of the shell.

The upper part of the cope C is made conical, as shown at c^4, to prevent the oil from adhering to the edges and gradually reaching the glass pipe, which loses its transparency therefrom in a very short time. To connect the copes C C' to the corresponding ends of the feed-pipe *a*, they are provided with an inside or outside screw-thread, according to circumstances.

When the parts above described are put together, the elastic rings *d d'* are compressed between the ends of the shell *b* and the shoulders *c c'* of the respective copes, and they are thus forced in the threads of these latter to form a tight joint packing, beyond which the glass pipe-section D is at liberty to expand when heated, avoiding in this manner the breaking of the said glass pipe, as is frequently seen in devices now in general use, and in which no such provision has ever been made.

To fill up the glass pipe I propose to use glycerine instead of water, and the reason of my preference lies in the fact that this body is heavier than water and that the lubricating-oil will flow up through it much quicker and in smaller globules than when water is used. In this latter case the oil has a tendency to scatter and lodge against the glass, rendering it opaque in a comparatively short time. With glycerine this scattering of the oil is entirely avoided, and the glass is kept constantly clean. Obviously, any other body or liquid having the requisite transparency and a greater density than that of water may be used with the same result.

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

In a feed-indicator for oil-pumps, &c., the combination, with the feed-pipe *a* and the copes C C', screwed thereto and connected by the slotted metallic shell *b*, the cope C having a conical bore, c^4, and the cope C' a central vertical spout, c^3, both copes being shouldered, as at *c c'*, and recessed, as at c^2, of the glass pipe-section D and elastic rings *d d'*, substantially as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

THOMAS W. SHERIFFS.

Witnesses:
H. G. UNDERWOOD,
H. J. FORSYTHE.