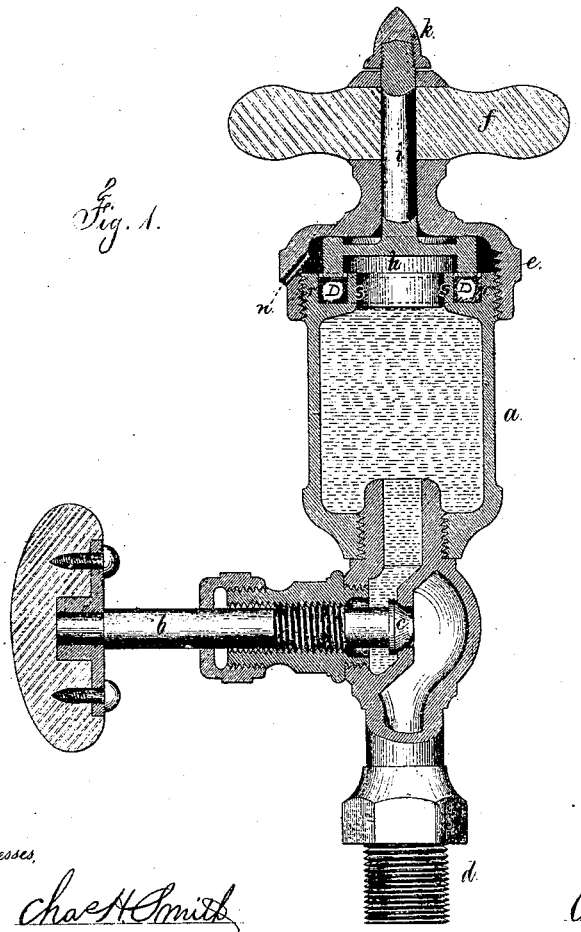
C. Nelson,

Lubricator.

No. 106,857. Patented Aug. 30. 1870.

Fig. 1.



Witnesses,

Chas. H. Smith

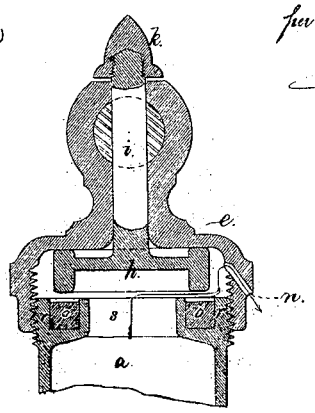
Harold Serrell

Charles Nelson.

per L. W. Serrell

atty.

Fig. 2.



N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

United States Patent Office.

CHARLES NELSON, OF BROOKLYN, E. D., NEW YORK.

Letters Patent No. 106,857, *dated August* 30, 1870.

IMPROVED LUBRICATOR.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, CHARLES NELSON, of Brooklyn, E. D., in the county of Kings and State of New York, have invented and made a new and useful Improvement in Lubricators; and the following is declared to be a correct description of the same.

In the lubricators heretofore made a screw stopper has been provided within a cap that is attached by a bayonet joint. This is very difficult to handle in the heated state, because the entire cap has to be grasped and the steam confined in the cap often escapes suddenly as the cap is removed, blowing the heated grease upon the person.

In my improved oil-cup the cap is provided with a wooden or non-conducting handle, and screws upon the cup, and within the cap there is a stopper set upon a vertical spindle, so that the stopper remains stationary upon its seat as the cap is screwed up tightly; an annular cavity around the mouth of the oil-cup receives a ring of the Jenkins compressible packing that forms a seat for the stopper, and an escape-hole is made through the side of the cap, so that confined steam passes off freely as the cap is removed, and the entire cap and stopper are removed or replaced simply through the agency of the non-conducting handle.

In the drawing—

Figure 1 is a vertical section of the lubricator complete.

Figure 2 shows the top of the cup with the cap partially removed.

The cup *a* is provided with a stem, *b*, valve *c*, and connection *d* for a steam-chest, or other article to which it is to be attached. These parts are to be of any desired size or shape and form no part of my invention.

Around the upper end of the cup *a*, a screw-thread is provided for the cap *e*, and *f* is a wooden or other non-conducting handle passing through the head of the cap.

The stopper *h* is mounted upon a spindle, *i*, passing through the cap *e* and handle *f*, and *k* is a nut, retaining the same, but allowing the stopper and its spindle to turn freely in the cap, so that the said stopper *h* may remain stationary upon its seat *o* while the cap *e* is screwed down to place; thereby the stopper does not have to turn around upon its seat.

The seat *o* is made of a ring of the compressible packing known as the Jenkins packing, patented May 8, 1866.

I form an annular recess for this packing by the flanges *r s* extending inward from the rim of the oil-cup *a*.

The hole *n* is provided through one side of the cap *e*, so that when the cap is loosened the confined steam will escape, as indicated in fig. 2.

I claim as my invention—

1. The non-conducting handle *f*, passing transversely through the cap *e*, and through which handle the spindle *i* of the stopper *h* passes, in combination with the oil-cup *a*, as and for the pprposes specified.

2. The escape-hole *n*, introduced in the screw-cap *e* of the oil-cup *a*, for the purposes and as set forth.

Dated December 22, 1869.

Witnesses: CHARLES NELSON.

CHAS. H. SMITH,

GEO. T. PINCKNEY.