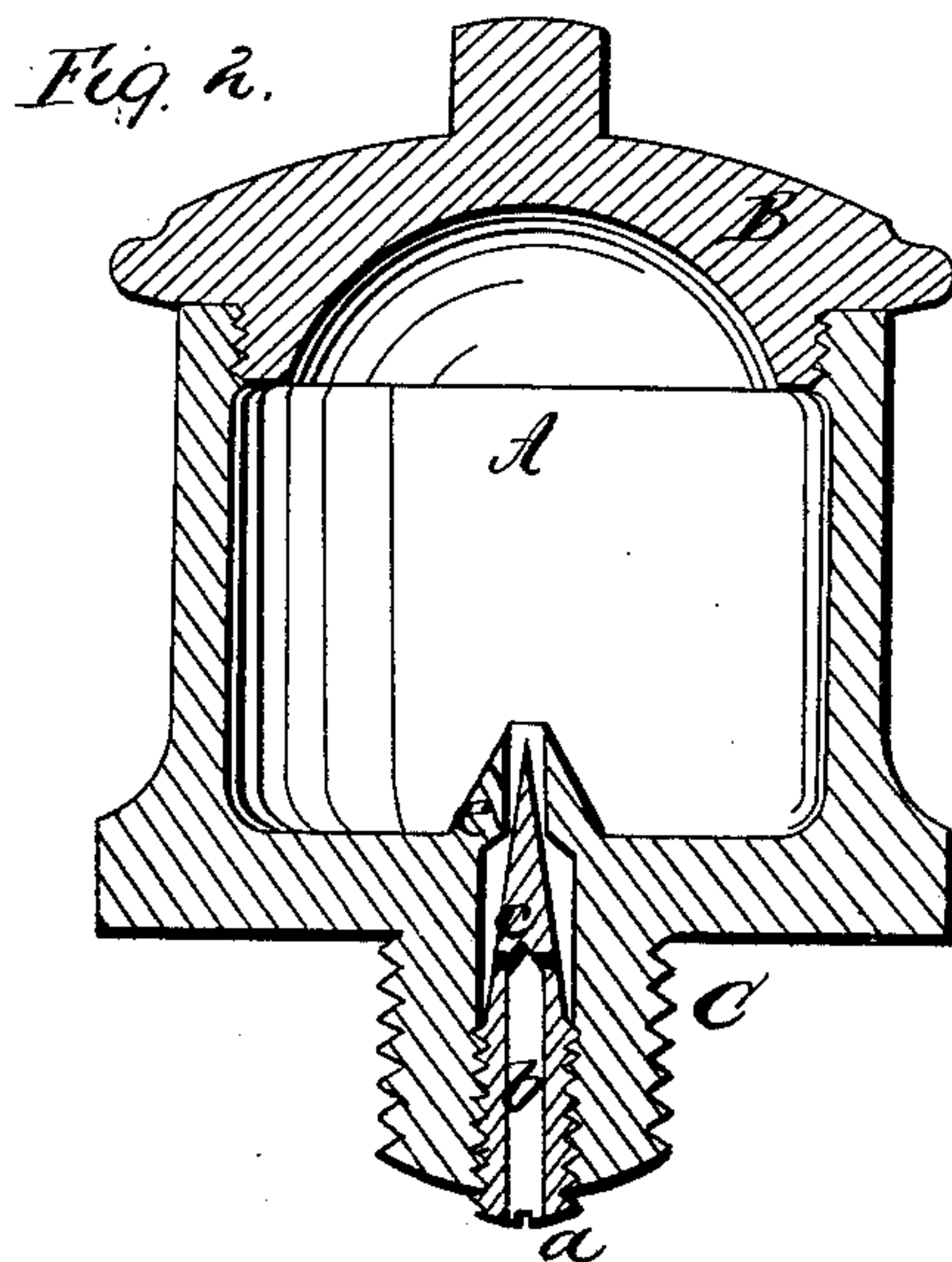
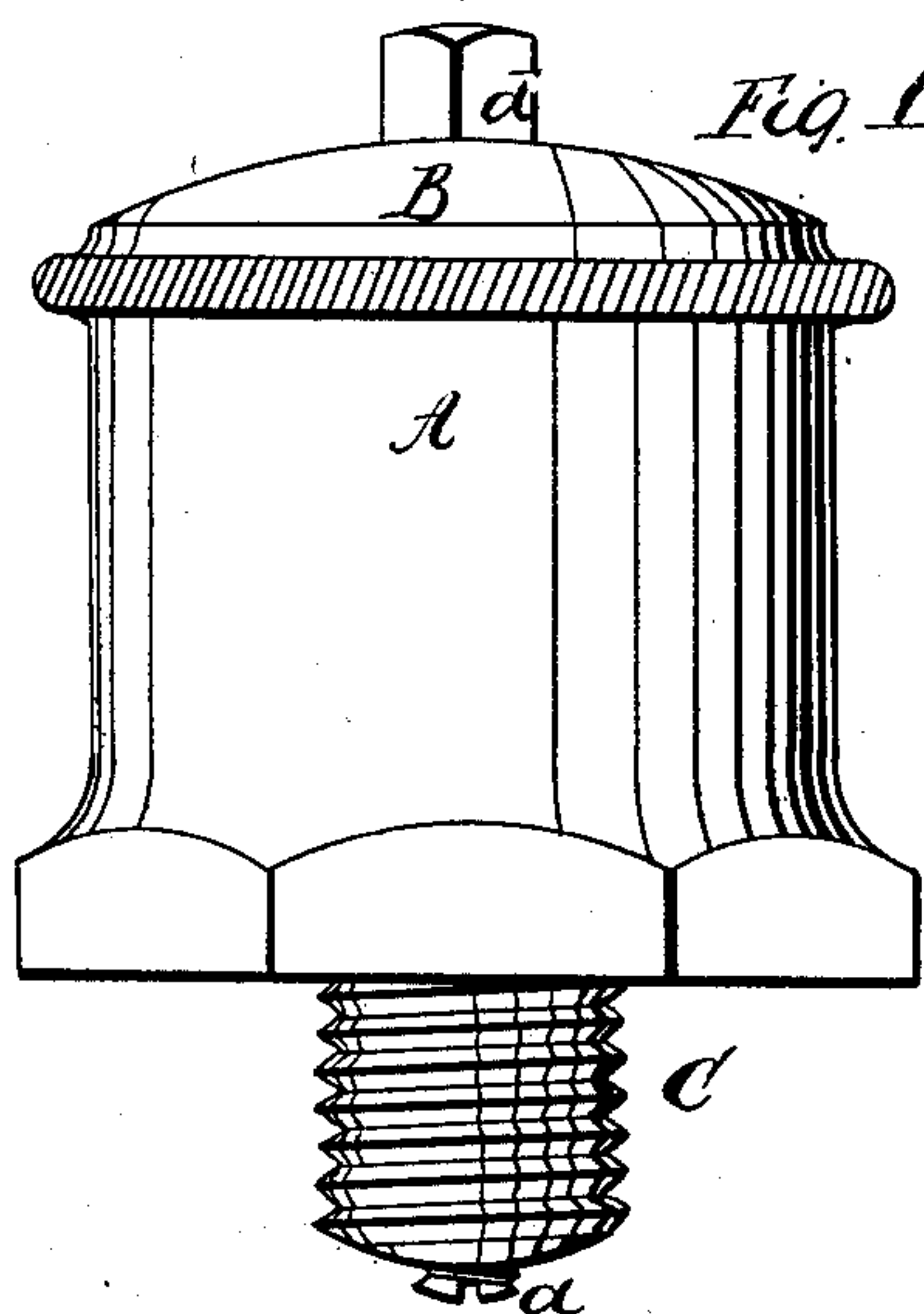


Patton & Miller

Lubricator

N^o 69,582.

Patented Oct. 8, 1867.



Witnesses;
C. A. Snyder
Simon Snyder

Inventor;
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United States Patent Office.

WILLIAM P. PATTON AND JACOB R. MILLER, OF HARRISBURG, PENNSYLVANIA.

Letters Patent No. 69,582, dated October 8, 1867.

IMPROVEMENT IN OIL-CUP.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that we, WILLIAM P. PATTON and JACOB R. MILLER, of the city of Harrisburg, county of Dauphin, and State of Pennsylvania, have invented a new and useful Improvement in "Oil-Cups;" and we hereby certify that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and the letters of reference marked thereon.

The nature of our invention consists in the peculiar combination and arrangement of an adjustable spindle or plug with the shank or screw-stem of an oil-cup, substantially as hereinafter set forth. In the drawings, making a part of this specification—

Figure 1 is a perspective view of the "oil-cup," and

Figure 2 a vertical section of the same, showing the interior of the cup and position of the plug.

In figs. 1 and 2, A represents the oil-chamber, surmounted by a cap or cover, B. Said cap is milled upon its edge, and has a squared projection, *d*, upon the top for the use of a wrench, when required. The body of the cup terminates in a screw-stem or shank, C, which is intended to fasten or hold it in its proper position upon the machine to which it is attached. Said shank C has a longitudinal hole drilled and tapped in the centre of its body, of a proper size to receive the spindle or plug *a*. At a point, *e'*, this hole is diminished in diameter, and is continued of such diminished size till it perforates the oil-chamber A. The junction of the smaller hole with the larger forms a shoulder at *e*, fig. 2. The spindle or plug *a* is a cylindrical piece of metal, (or other suitable material,) having its upper end tapered or cone-shaped. The cylindrical portion is threaded, and is made of such relative size to the hole in shank C (made for its reception) as to neatly fit it. The upper or tapered portion enters the small hole or oil-passage, when the plug is in position as seen in fig. 2, and can be made to abut against or recede from the shoulder *e*, as may be desired, by the use of a screw-driver in a slot made for its reception in the lower end of the plug, as seen at *a*. Said plug also has a hole or oil-passage, *b*, drilled in it from its lower end upward a sufficient distance, so that a cross-hole made in the tapered portion at *c* will intersect it, and thus form a continuous passage for the oil or other lubricating liquid. Another manner of providing said passage is simply to file away part of the body of the plug, which will answer the same purpose as drilling, and may be preferred, as being more easily done.

Having given a full description of our invention, the manner of operating is as follows: Before screwing the cup fast to the place it is desired to supply with oil, the oil-chamber should be filled and the cap screwed on tightly, the spindle or plug *a* having been previously adjusted, so that its tapered part abuts against the shoulder *e*. This closes the oil-passage and prevents the flow of oil. The plug *a* should then be slacked off or turned away from said shoulder, so that the oil may be drawn out by suction, but will not flow without. The cup is now regulated, and will not require further adjustment, unless oil of a different density is used.

Several important advantages are gained by this method of constructing oil-cups. First, it is extremely simple, and is very cheaply and easily constructed; second, it has stood severe practical tests, and has proved very economical in consumption of oil, as it is automatic in its action, and will not feed when the machinery to which it is applied is not in motion. Another important advantage is that it can be easily repaired if accidentally broken.

We do not broadly claim the general application of a needle or spindle to an oil-cup, as we are aware that such a device has already been applied to the cover or cap of an oil-cup, and made adjustable therefrom. Neither do we claim an open tube or pipe adjusting in the shank of an oil-cup. But what we do claim as new, of our invention, and desire to secure by Letters Patent of the United States, is—

The peculiar combination and arrangement of the adjustable spindle or plug *a* with the shank C of an oil-cup, constructed and operating substantially as described.

WM. P. PATTON. [L. S.]
JACOB R. MILLER. [L. S.]

Witnesses:

C. A. SNYDER,
SIMON SNYDER.