

H. McGRAW.

OILERS FOR LOOSE PULLEYS.

No. 181,700.

Patented Aug. 29, 1876.

FIG. 1.

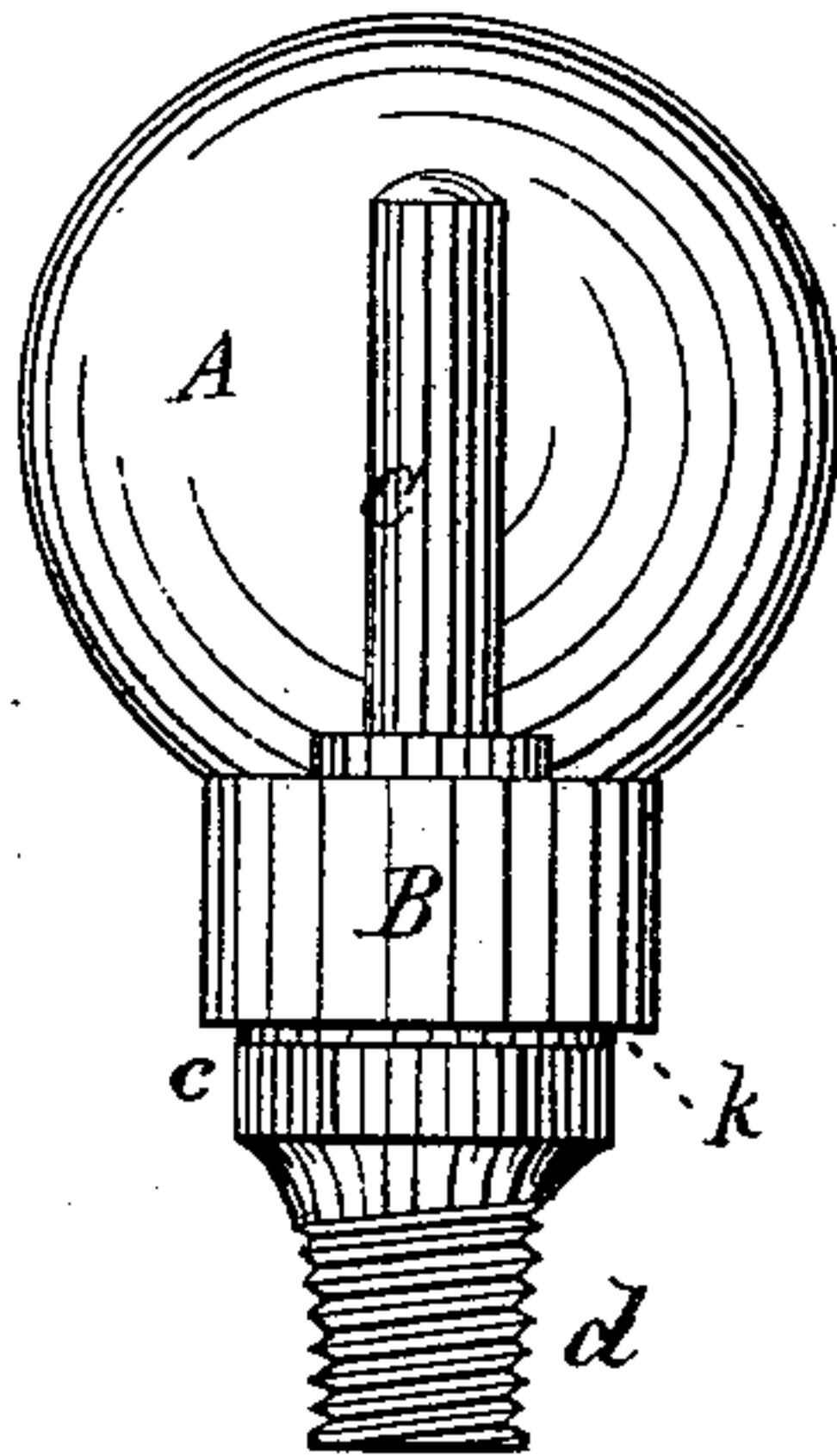


FIG. 2.

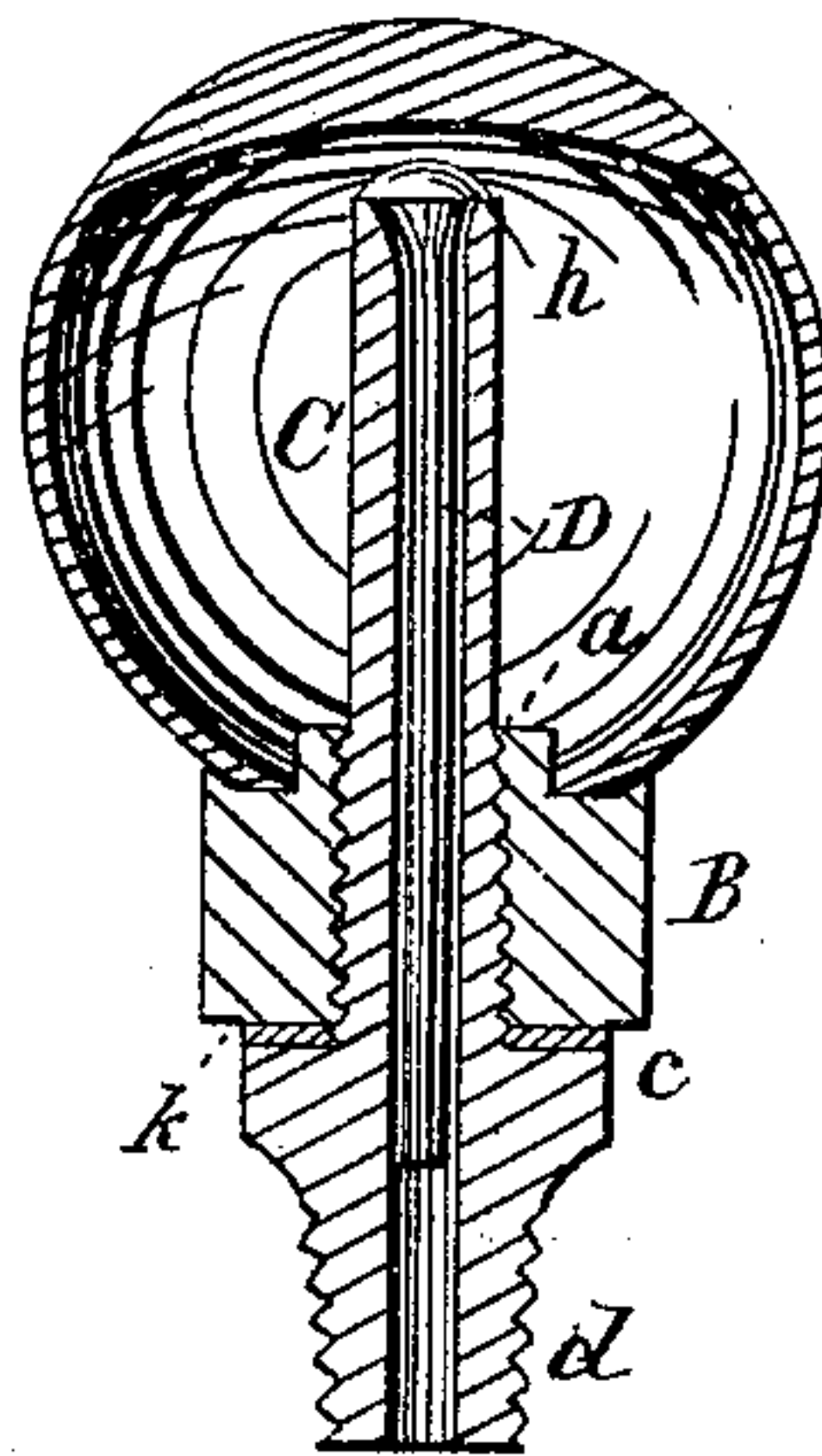
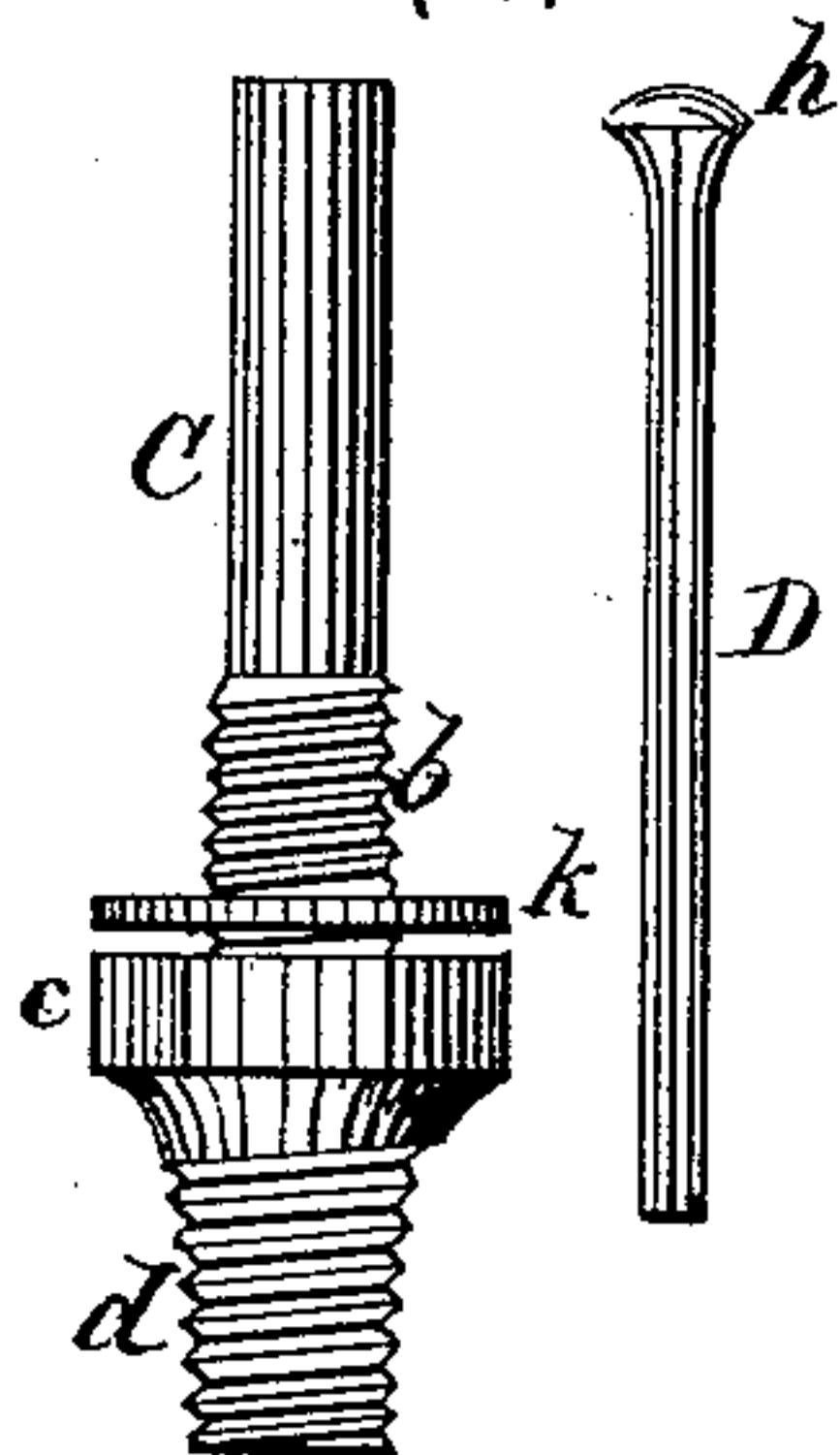


FIG. 3.



WITNESSES.

John D. Vane
J. A. Vane

INVENTOR.

Henry McGraw
Per Atty
Thos. P. Sprague

UNITED STATES PATENT OFFICE.

HENRY McGRAW, OF DETROIT, MICHIGAN.

IMPROVEMENT IN OILERS FOR LOOSE PULLEYS.

Specification forming part of Letters Patent No. **181,700**, dated August 29, 1876; application filed May 26, 1874.

To all whom it may concern:

Be it known that I, HENRY MCGRAW, of Detroit, in the county of Wayne and State of Michigan, have invented an Improvement in Oil Cups for Loose Pulleys; and I do declare that the following is a true and exact description of the same, reference being had to the accompanying drawings, which form a part of this specification, in which—

Figure 1 is a plan view. Fig. 2 is a vertical central section. Fig. 3 is a plan of the tube, stem, and valve.

The nature of this invention relates to improvements in that class of lubricators or oil-cups employed in lubricating journals upon which loose pulleys run, and where the lubricator revolves with the pulley, as more fully hereinafter set forth.

In the drawings, A is a spherical or nearly spherical glass cup, to the bottom of which is secured the metallic cap B, through which is an aperture provided with a thread, *a*, which engages with a thread, *b*, on the outside of the hollow tube C, the lower end of which is enlarged and provided with the shoulder *c* and threaded part *d*, which latter is designed to screw into a suitably-tapped hole in the hub of the loose pulley, to which it is designed to be attached. D is a stem smaller than the internal bore of the tube C, within which it is suspended by means of the cap-valve *h* from the top end of said tube, when in a vertical position with the cup.

To fill the cup, unscrew and remove the tube. When filled, return the tube and screw to place. The flexible washer *k* may be used to prevent leakage, if desired. The top of the tube should terminate so near the top of the cup that, in the rotation of the pulley, there will be a very small play allowed the stem, when the top of the cap-valve, striking the top of the cup, will arrest the play or travel of the stem in that direction when the cup is inverted. This allows the oil in the cup, or a small portion thereof, to run into the tube. When, in the further rotation of the pulley, and the cup has assumed a vertical position, the stem falls of its own gravity, the valve closes the tube, and the oil therein runs through the tube and lubricates the journal, this operation being repeated with every revolution of the pulley.

What I claim as my invention, and desire to secure by Letters Patent, is—

In oilers designed to be fastened to the hub of loose pulleys, and to rotate therewith, a tube, C, and stem D, provided with a cap-valve, *h*, the said tube extending nearly to the top of the cup A to allow but little play to the stem, substantially as described and shown, for the purpose set forth.

HENRY MCGRAW.

Witnesses:

THOS. S. SPRAGUE,
JAS. DWYER.