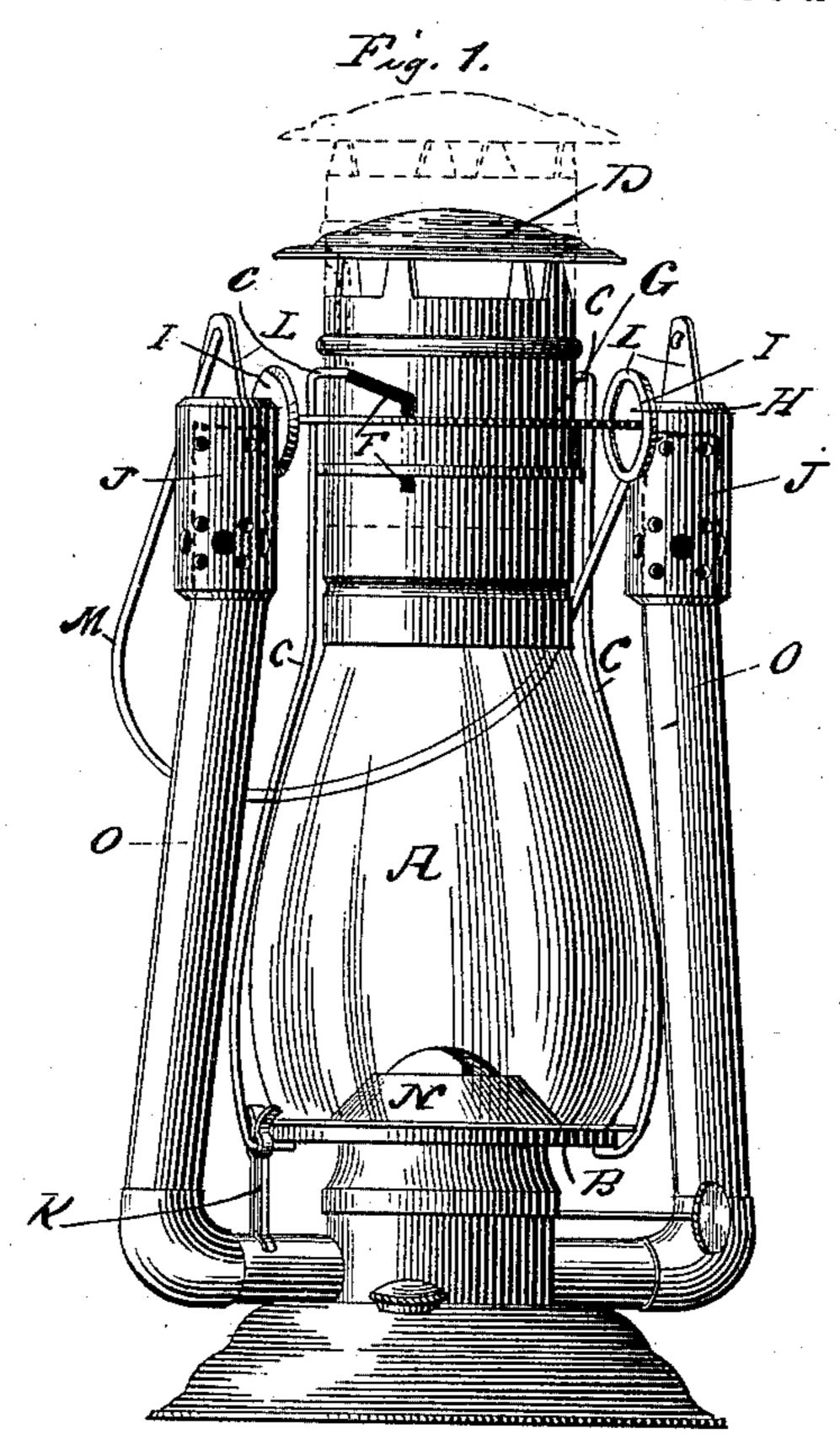
(No Model.)

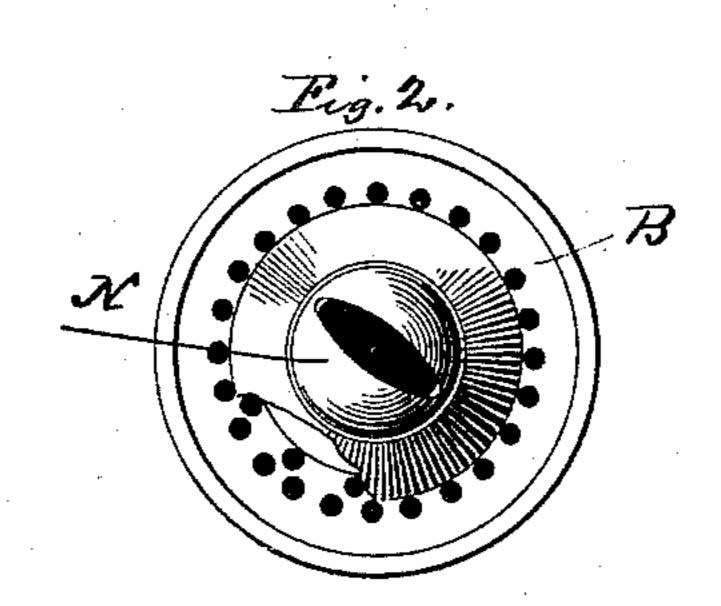
W. H. KARGES & C. E. SMITH. Sheets—Sheet 1.

LANTERN.

No. 314,383.

Patented Mar. 24, 1885.





Um H. Karges and Clarence E. Smith

WITNESSES!

E.J. Mundock

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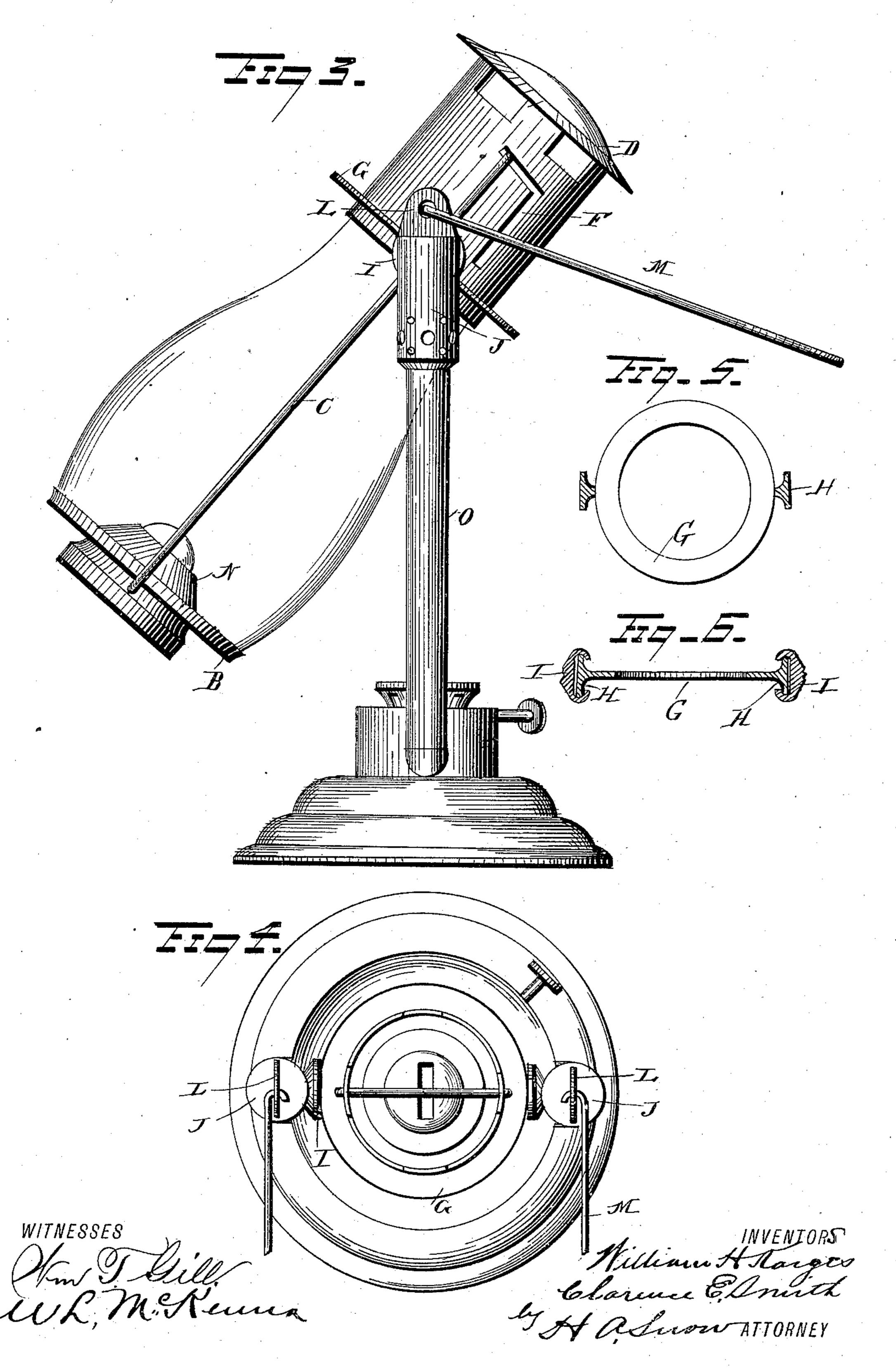
2 Sheets—Sheet 2.

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LANTERN.

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Patented Mar. 24, 1885.



United States Patent Office.

WILLIAM H. KARGES AND CLARENCE E. SMITH, OF ST. LOUIS, MISSOURI.

LANTERN.

SPECIFICATION forming part of Letters Patent No. 314,383, dated March 24, 1885.

Application filed March 25, 1884. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM H. KARGES and CLARENCE E. SMITH, of St. Louis, county of St. Louis, and State of Missouri, have invented a new and useful Improvement in Lanterns; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use it, reference being had to the accompanying drawings, forming a part thereof.

Our invention relates to an improvement in tubular lanterns—that is, a lantern provided with draft-tubes on each side, made in the manner shown in drawings, in which—

Figure 1 is a side elevation of a lantern provided with our invention. Fig. 2 is a detail view of draft-plates. Fig. 3 is a side elevation of the lantern, showing the globe and supporting parts thrown out of the way, giving access to the burner for lighting, trimming, or other purpose. Fig. 4 is a top view of the lantern with the cap D removed and showing the tilting disk. Fig. 5 is a plan view of the tilting disk and circular disks secured thereto. Fig. 6 is a section of the tilting and circular disks and circular bearings.

The tubes O O are soldered fast to the bottom and extend upward. At the top of each 30 is a second tube, J J, the top of which is closed with a cap, into which the ears L L for the bail M M are fastened. The lower ends of the tubes J J are perforated with three rows of holes, which admit air to the burner.

35 The tubes O O extend into the tubes J J within one-half inch from the top, as shown in dotted lines, Fig. 1, serving as a wind-brake, thus preventing the air from coming too suddenly on the flame.

Near the top and on the side of the tubes J
J are fastened the circular bearings I I, in
which revolve the corresponding pieces, H H.
To these revolving bearings is fastened the
flange G, through which pass the top D and
lift-wires C C. The top D has a perpendicular slot, F F, at each side, through which pass
the lift-wires C C, as shown in the drawings.
The slot F F commences near the bottom in
the top D and runs toward the top, then makes
an obtuse angle, forming an incline-plane,
through which the lift-wires C C move. The
lift C C is made in the following manner: A

piece of wire is bent on the lower end and soldered fast to disk B, and then passes upward through flange G and through the slots F F 55 in the top D, as shown in the drawings. The disk B is perforated with two rows of holes, and on the disk B is soldered a funnel-shaped cone, N N, in such a manner that the two rows of holes in disk B are divided. One row 60 of holes comes on the outside of the funnel-shaped cone N N, and the other row on the inside of funnel-shaped cone N N, the purpose of which is that the air which passes through the inside row of holes in disk B is thrown direct onto the flame, making a steadier and whiter flame.

To operate our invention, the globe A is placed on the disk B, and the top D is forced down until the lift C C reaches the slots F F, 70 when they enter the incline-plane by turning the top D, and at the same time secure the fastening of globe A.

For lighting or trimming, the globe A is raised by pushing upward on the disk B and 75 swinging it over, as shown in Fig. 3, thus giving free access to the burner.

When in use, the lift C C is held secure by the catch K.

Having thus fully described our invention, 80 what we claim, and desire to secure by Letters Patent, is—

1. A lantern provided with draft-tubes O O, having the enlarged tubes J J at the top thereof, said tubes J J being closed at the 85 top and perforated below the tops of the tubes O O, substantially as and for the purpose set forth.

2. In a lantern, the combination of the tilting disk G, part D held therein, having slots 90 F, connecting-rods C C, and supporting-disk B at the lower end thereof, substantially as and for the purpose set forth.

3. In a lantern, the combination of the movable cap or part D, having the slots F, the 95 connecting-rods C C, working in said slots at the top, the disk B, connected to the bottom of said rods, and the tilting disk G, through which the part D and rods C C pass, as set forth.

4. The combination, with the part D, disk B, connecting-rods C, and globe A, of the tilting disk G, circular disk H H on the sides thereof, and the circular bearings I I for said

IOO

disks H, substantially as and for the purpose set forth.

5. The combination, with the part D, having slots F, connecting-rods C, disk B, and tilting disk G, of the spring-fastening K, for holding the said parts in a vertical position, as set forth.

In testimony that we claim the foregoing we append our signatures.

WILLIAM H. KARGES CLARENCE E. SMITH.

Witnesses:

WM. H. THOMPSON, GEO. MUNGER