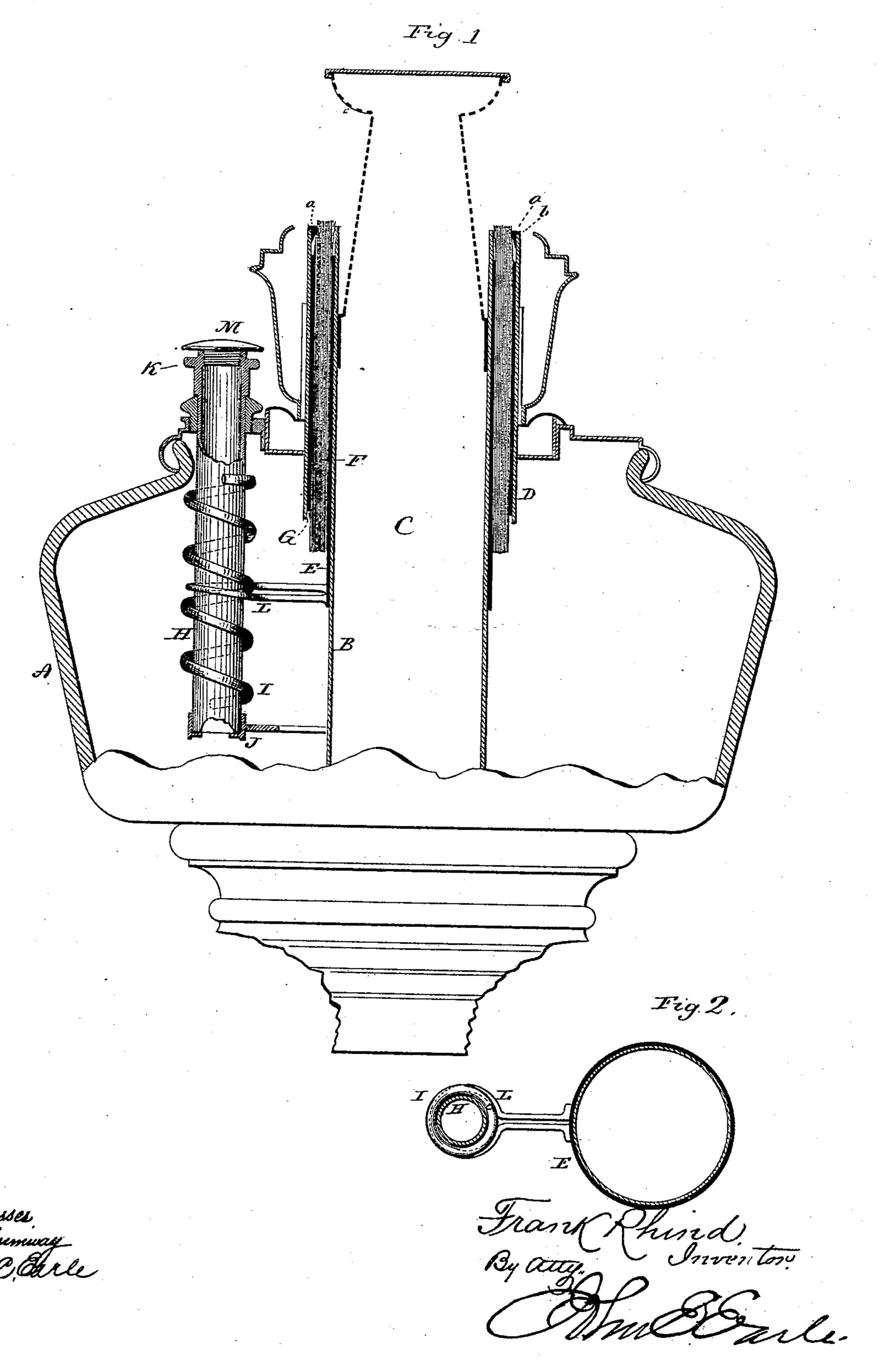
(No Model.)

F. RHIND.

LAMP.

No. 361,545.

Patented Apr. 19, 1887.



United States Patent Office.

FRANK RHIND, OF MERIDEN, CONNECTICUT.

LAMP.

SPECIFICATION forming part of Letters Patent No. 361,545, dated April 19, 1887.

Application filed September 27, 1886. Serial No. 214,621. (No model.)

To all whom it may concern:

Be it known that I, FRANK RHIND, of Meriden, in the county of New Haven and State of Connecticut, have invented a new Improve-5 ment in Lamps; and I do hereby declare the following, when taken in connection with accompanying drawings, and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawto ings constitute part of this specification, and represent, in—

Figure 1, a vertical central section of the lamp, showing a sectional side view of the wick-adjusting device; Fig. 2, a transverse 15 section through the shaft, showing a top view

of the yoke and wick-holder.

This invention relates to an improvement in the class of lamps in which a tubular wick is employed, and in which air is admitted up-20 ward inside the burner to aid in supporting combustion.

convenient device for adjusting or raising and lowering the wick; and it consists in a verti-25 cally-guided slide to which the wick is attached, combined with a vertical screw fixed as to longitudinal movement, but free to rotate, the axis of the screw being parallel with the axis of the wick, with a yoke adapted to 30 work between the threads of the screw, the said yoke being connected to the slide, and so that by the rotation of the said vertical screw the yoke and the slide, with the wick attached thereto, will be raised or lowered, according 35 to the direction in which the shaft is rotated.

I illustrate in Fig. 1 a complete lamp, a brief description of which will only be necessary to a full understanding of my invention.

A represents the fount, which may be of any 40 of the usual constructions; C, the central airtube, and which forms the inner wall of the wick-chamber; D, a concentric tube surrounding the tube C, but so as to leave a space between them, in the usual manner for this class 45 of wicks.

E is a slide or sleeve arranged upon the tube C, and so as to slide freely up and down thereon.

F is the wick which surrounds the sleeve E; 50 G, a sleeve which surrounds the wick F, and so as to clamp the wick between it and the

slide E, as shown, and so that as the slide E is raised or lowered the wick F and the sleeve G will be raised or lowered accordingly, the external diameter of the sleeve G correspond- 55 ing to the internal diameter of the tube D, so that the movement of the wick-holding device may be free between the two tubes. The space between the tubes C and D is therefore equal to the thickness of the slide E, the wick 60 F, and the sleeve G. To introduce the wick, the slide and sleeve necessarily are raised to a point so far above the wick-chamber that the sleeve may be removed, and then the wick applied, the sleeve replaced, and then drawn 65 down into place.

The wick-adjusting device consists of a shaft, H, arranged vertically in the fount with its axis parallel with the axis of the wick-tube, and the shaft is provided with a spiral rib, I, 70 forming a screw-thread thereon. The shaft is supported at its lower end in a suitable bear-The object of my invention is a simple and | ing, J, and extends up through the fount, where it is provided with a suitable head, K, by which it may be readily rotated. Sur- 75 rounding the shaft is a yoke, L, which works upon the spiral rib or screw-thread of the shaft, and is fixed to the wick holder E. The shaft is free for rotation, but is supported against vertical movement. By rotating the 8c shaft in one direction the yoke L will rise, and with it the wick-holder and the wick it carries. Turned in the opposite direction, the yoke will be forced downward, together with the wick-holder and the wick it carries.

Preferably the spiral rib is made of a quick pitch, so that slight extent of rotation will impart a considerable up or down movement

to the wick.

To utilize the shaft as a filler, it is made 90 tubular, as shown, opening into the fount at the bottom, and its upper end closed by the usual filler-cap, M, on the removal of which oil may be poured into the fount through the tubular shaft, in the usual manner of filling lamp- 95 founts.

I have represented in the illustration a central air-distributer in the wick-tube; but while this is desirable in this class of burners, it is not essential to the invention.

I claim—

1. In a tubular-wick lamp, the combination

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of a wick-holder adapted to engage the wick of the lamp and vertically guided and a vertical shaft outside said wick-tube and in engagement with said wick-holder, whereby through said shaft said wick-holder may be raised or lowered for the adjustment of the wick, the said shaft made tubular and extending up through the fount, open outside the fount, and also open into the fount, substantially as described, and whereby said shaft serves not only as a means for adjusting the wick, but also as a tube for filling the fount.

2. In a lamp, the combination of a lampfount, a vertical tubular shaft supported

against vertical movement, but free to revolve, 15 the said tubular shaft extending through the top of the lamp-fount, open outside the fount, and also open into the fount, a wick-holder, and a yoke adapted to engage a spiral rib on the shaft and fixed to the wick-holder, substantially as described, whereby said tubular shaft forms a filling-tube for the supply of the fount, the said shaft also serving as the means to raise or lower the wick.

FRANK RHIND.

Witnesses:

JOHN E. EARLE, FRED C. EARLE.