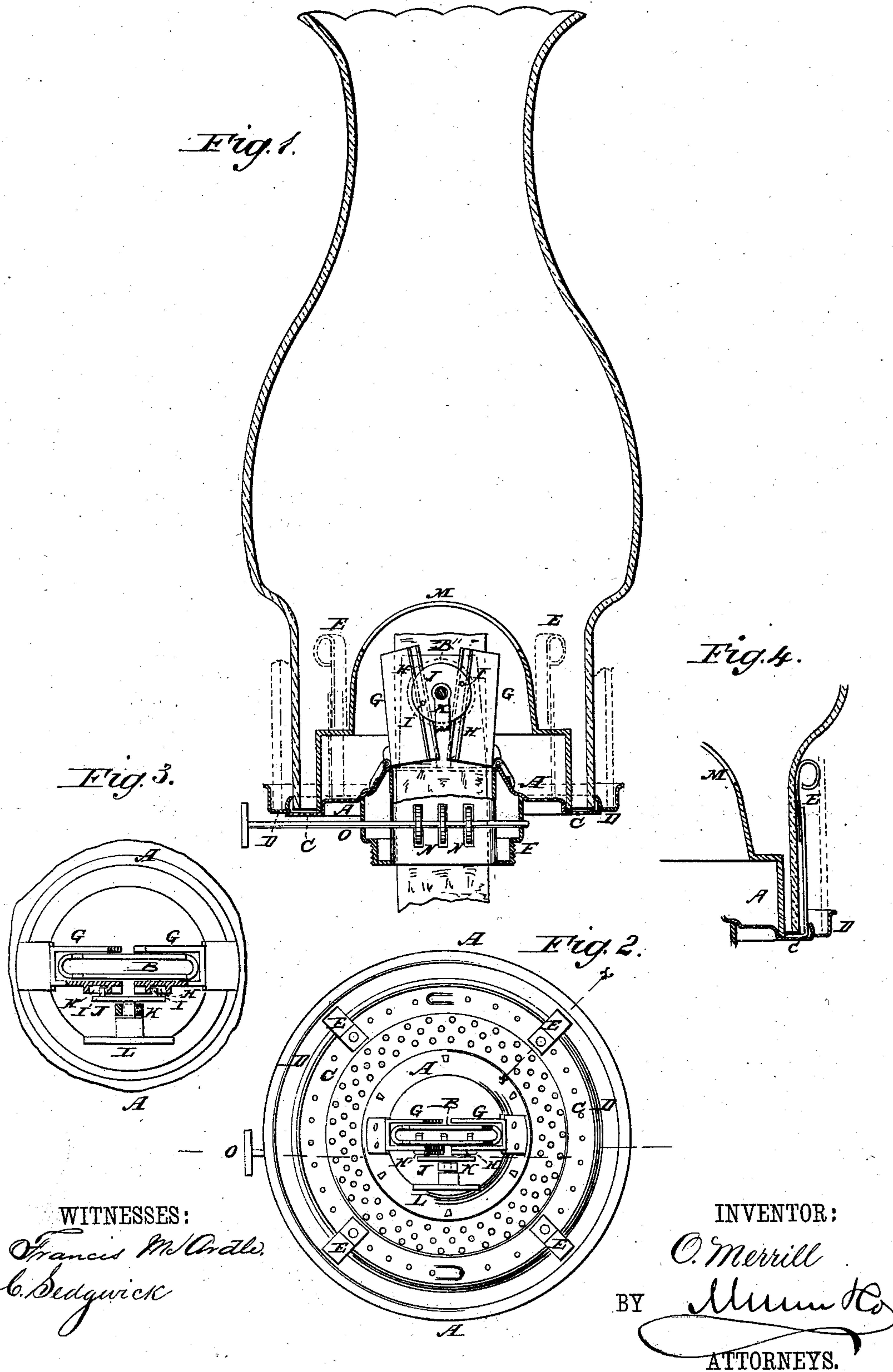


O. MERRILL.
Lamp-Burner.

No. 224,459.

Patented Feb. 10, 1880.



WITNESSES:
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UNITED STATES PATENT OFFICE.

ORLANDO MERRILL, OF COURTLAND, ALABAMA.

LAMP-BURNER.

SPECIFICATION forming part of Letters Patent No. 224,459, dated February 10, 1880.

Application filed October 8, 1879.

To all whom it may concern:

Be it known that I, ORLANDO MERRILL, of Courtland, in the county of Lawrence and State of Alabama, have invented a new Improvement in Lamp-Burners, of which the following is a specification.

Figure 1 is a sectional elevation of the lamp-burner. Fig. 2 is a plan view of the burner. Fig. 3 is an enlarged plan view, partly in section, of the wick-tube. Fig. 4 is a detailed sectional elevation taken through the line *xx*, Fig. 2.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish lamp-burners so constructed that wider and narrower wicks and larger and smaller chimneys may be used with the same burners.

The invention consists in the combination of hinged half-tubes and their operating mechanism with the wick-tubes made with open edges, so that the wick-tubes may receive wider and narrower wicks.

The base-plate A of the burner has its middle part raised and slotted to receive the wick-tube B.

Upon the outer part of the base-plate A are formed two concentric seats, C D, to receive chimneys of different sizes, which chimneys are held in place by springs E, attached to the base-plate A in such positions as to rest against the outer surface of the smaller chimney and against the inner surface of the larger chimney, so that a smaller chimney and a narrower wick may be used when less light is required, and a larger chimney and a wider wick may be used when more light is required, thus avoiding the necessity of having two lamps or two burners for the same lamp.

To the lower side of the middle part of the base-plate A is attached a collar, F, having a screw-thread formed upon it to screw into the collar of the lamp.

The part of the wick-tube B above the base-plate A is made with open side edges, and is slightly tapered, as shown in dotted lines in Fig. 1.

To the base-plate A, at the side edges of the wick-tube B, are hinged the lower ends of the side edges of the two half-tubes G, which are

tapered upon their inner edges, as shown in Fig. 1, so that when the upper ends of the half-tubes G are moved inward the said half-tubes, in connection with the open-edged upper part of the wick-tube B, will form a narrow wick-tube. When the upper ends of the half-tubes G are moved outward the said half-tubes G, in connection with the open-edged upper part of the wick-tube B, form a wide wick-tube to receive a wide wick, so that different-sized wicks and different-sized chimneys may be used with the same burner, as more or less light is needed.

Along the inner edges of the half-tubes G are formed grooves H, in which work pins I attached to a disk, J. The disk J is pivoted to a standard, K, attached to the base-plate A, and to the outer end of its pivot is attached a button, L, for convenience in operating it.

With this construction the half-tubes G may be adjusted to form a wider or a narrower wick-tube by turning the disk J.

Any other suitable mechanism may be used for adjusting the half-tubes G as may be desired or convenient.

The wick-tube is covered with a cone, M, in the usual way. The wick is adjusted within the wick-tube by spur-wheels N, attached to a rod, O, in the usual way.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In lamp-burners, the combination, with the wick-tube B, made with open edges, of the half-tubes G, hinged at their lower ends, substantially as herein shown and described, so that the complete wick-tube may be adjusted to receive wide or narrow wicks, as set forth.

2. In lamp-burners, the combination, with the hinged half-tubes G, of the grooves H, pins I, and disk J, substantially as herein shown and described, for adjusting the half-tubes G to form wider or narrower wick-tubes, as set forth.

ORLANDO MERRILL.

Witnesses:

S. W. CUTTER,
W. P. HATCH.