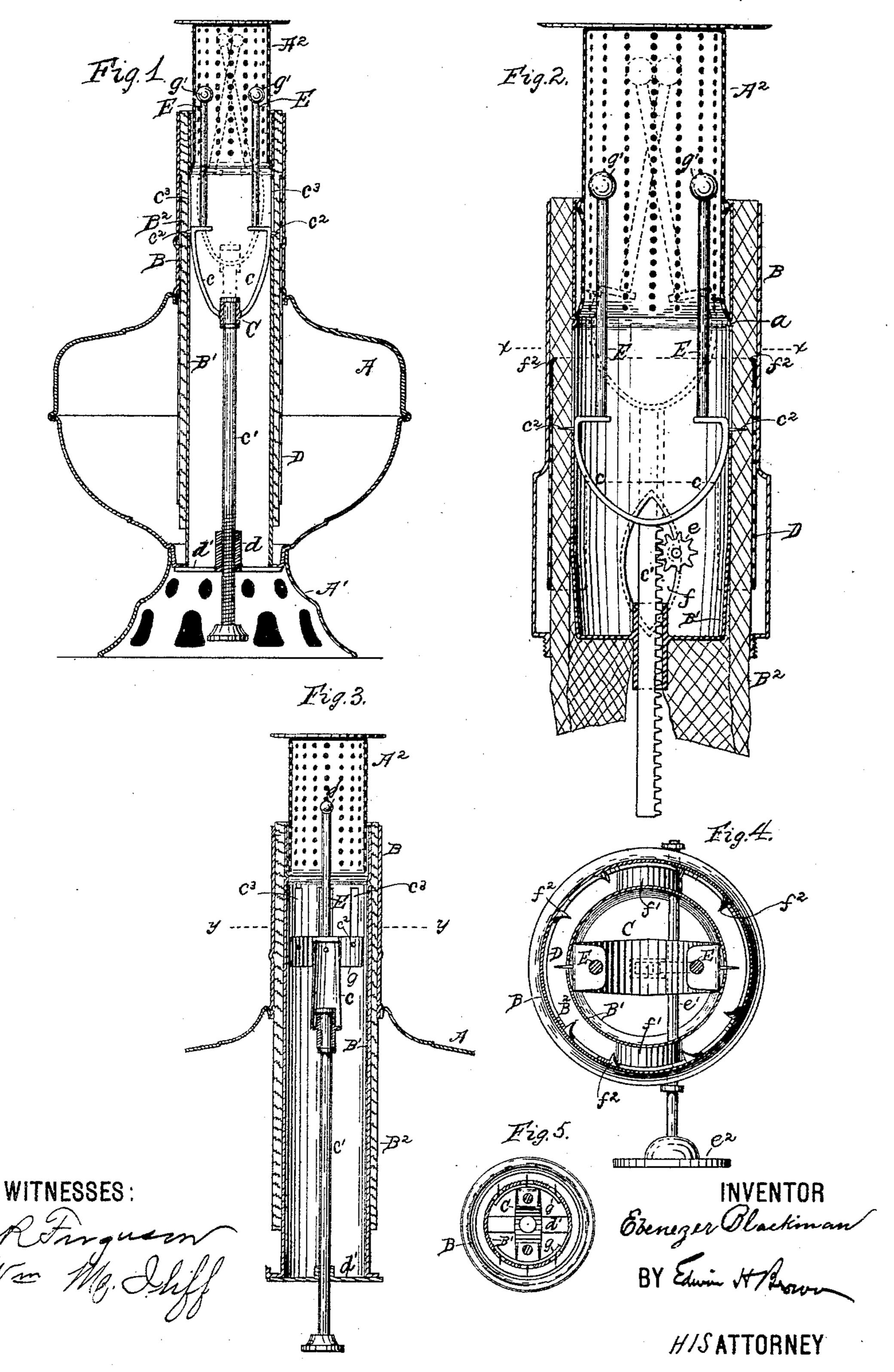
(No Model.)

E. BLACKMAN. WICK RAISER FOR CENTRAL DRAFT LAMPS.

No. 461,101.

Patented Oct. 13, 1891.



United States Patent Office.

EBENEZER BLACKMAN, OF BROOKLYN, NEW YORK, ASSIGNOR OF ONE-HALF TO EDWIN H. BROWN, OF SAME PLACE.

WICK-RAISER FOR CENTRAL-DRAFT LAMPS.

SPECIFICATION forming part of Letters Patent No. 461,101, dated October 13, 1891.

Application filed August 26, 1890. Serial No. 363, 104. (No model.)

To all whom it may concern:

Be it known that I, EBENEZER BLACKMAN, of Brooklyn, county of Kings, and State of New York, have invented a certain new and 5 useful Improvement in Wick-Raisers, of which the following is a specification.

This invention relates to wick-raisers for central-draft lamps; and it consists of a slotted central draft-tube, a wick-carrier comprising ro divergent resilient arms constructed to engage a wick, upwardly-extending portions on the arms for disengaging the arms from the wick, and means for moving the carrier vertically.

I will describe a wick-raiser embodying my improvement, and then point out the novel

features in the claims.

In the accompanying drawings, Figure 1 is a vertical section of a lamp embodying my in-20 vention. Fig. 2 is an enlarged vertical section of a wick-tube embodying my invention. Fig. 3 is a vertical section showing a modified construction. Fig. 4 is a transverse section on the line x x of Fig. 2, and Fig. 5 is a trans-25 verse section on the line y y of Fig. 3.

Referring by letter to the drawings, A designates a lamp-fount having a base A', provided with openings for the admission of air.

B B' designate the outer and inner shells of 30 a wick-tube, and B² shows the wick therein. The inner shell B' constitutes a central drafttube. As shown in Fig. 1, it extends upward from the bottom of the fount and communicates and receives air from the base of the 35 lamp. A perforated thimble A² extends into the upper portion of the inner draft-tube B' and rests upon an annular bead or stop a.

C designates a wick-raiser comprising an arm or arms c movable vertically within the 40 draft-tube B'. The arms c are preferably of resilient metal divergent from an operating rod or bar c' and provided at the outer side of the free ends with points or pins c^2 , which pass through vertical slots c^3 in the tube B' to 45 engage with the wick. It is obvious that when the arms c are moved up and down the wick will be correspondingly moved. In the drawings I have shown some of the means by which the arms c may be operated. For instance, in 50 Fig. 1 I have shown the rod c' as having a ro-

threaded portion engaging in an interiorallythreaded boss d on a bar d', extending across and secured to the bottom of the tube B'. In this example the wick-carrier may be oper- 53 ated by rotating the rod c'. In Fig. 3 the rod c' is not threaded, but passes through a guide in the bar d'. In this example it is obvious that by simply pushing upward or pulling downward the rod c' the carrier will be simi- 60 larly moved. In Fig. 2 the rod c' is shown in the form of a rack-bar, the teeth of which engage with a pinion e on a shaft e', journaled through the wick-tube and provided at its outer end with a finger-piece e^2 , by means of 65 which the shaft and pinion may be rotated to move the wick-carrier up or down.

In Figs. 1 and 3 a cylindric wick may be used; but in Fig. 2 I prefer to use two wicks, which, when placed in position, form in effect 70 a single cylindric wick, and by employing the two wicks the shaft e' may extend between the adjacent edges and not interfere with the movement of the wick. The draft-tube B', as shown in Fig. 2, is not intended to extend 75 through the fount, but is closed at its lower end, excepting a guide-opening for the bar c', and terminates approximately on a level with the collar of the fount, into which the burner is fitted. Air is admitted to the lower por- 80

tion of the tube B', in this example, through a lateral opening or openings f, the walls f' of which extend across the space between the

shells B B'.

In some of the examples of my improvement 85 I find it desirable to employ an annular stay D. This stay D surrounds a portion of the wick and is adapted to move with it inside of the shell B. It is provided at its upper edge with inwardly-projecting prongs f^2 , which en- 90 gage with the wick. This stay serves to hold the wick closely against the pin c^2 , and it may be perforated for the passage of oil when it extends into the fount, as in Fig. 1.

In Fig. 3 I have not shown the annular stay; 95 but in lieu thereof I employ segmental plates g, attached to the arms c and provided with

a series of pins c^2 .

It is sometimes desirable to move the wickcarrier without imparting motion to the wick-roc for instance, to change the position of engagetary connection with the arms c and having a 1 ment with the wick. For this purpose it is

necessary to move the pins c^2 from the wick, and as a means thereof I provide each of the resilient arms c with an upwardly-extending portion or rod E, having locking device, (here shown in the form of a ball g' at the top.) By forcing the upper ends of the rods E toward each other the ends of the arms c will be caused to approach and draw the pins c^2 out of the wick. The rods E may be held in this position by hand and the carrier moved, as desired, or the rods may be crossed, as shown in dotted lines, Figs. 1 and 2, so that the balls g' pass and interlock or engage with each other.

Having described my invention, what I desire to secure by Letters Patent is—

1. In a lamp, the combination, with a wick-tube having a slotted inner shell forming a central draft-tube, of a wick-carrier comprising divergent resilient arms constructed to engage a wick, means for moving the carrier vertically, and upwardly-extending portions on said arms for disengaging the arms from the wick, substantially as specified.

2. In a lamp, the combination, with a wick-tube having a slotted inner shell forming a 25 central draft-tube, of a wick-carrier comprising divergent resilient arms constructed to engage with a wick, means, substantially such as described, for moving the carrier vertically within the draft-tube, rods extending upward 30 from said arms, and locking devices on the rods, substantially as specified.

3. In a lamp, the combination, with a wick-tube having a slotted inner shell forming a central draft-tube, of a wick-carrier engaging 35 a wick and movable vertically within the draft-tube, and an annular stay surrounding and movable with the wick, substantially as

specified.

In testimony whereof I have signed my 40 name to this specification in the presence of two subscribing witnesses.

EBENEZER BLACKMAN.

Witnesses:

C. R. FERGUSON, ANTHONY GREF.