(No Model.)

T. HIPWELL.

WICK RAISER.

No. 457,588. Patented Aug. 11, 1891.

Fig. 1.

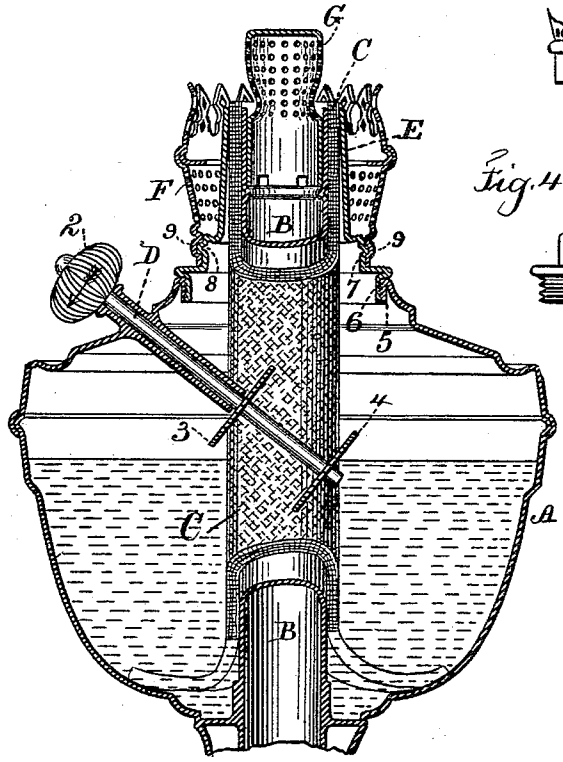


Fig. 3.

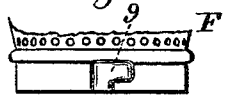


Fig. 4.

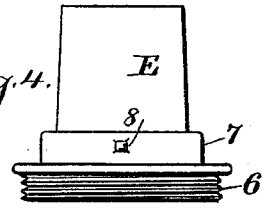
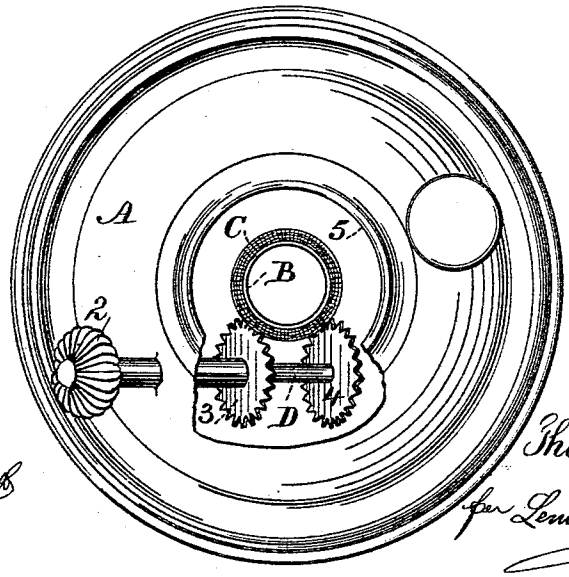


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

THOMAS HIPWELL, OF LONG ISLAND CITY, ASSIGNOR TO THE MANHATTAN BRASS COMPANY, OF NEW YORK, N. Y.

WICK-RAISER.

SPECIFICATION forming part of Letters Patent No. 457,588, dated August 11, 1891.

Application filed May 2, 1891. Serial No. 391,342. (No model.)

To all whom it may concern:

Be it known that I, THOMAS HIPWELL, a citizen of the United States, residing at Long Island City, in the county of Queens and State of New York, have invented an Improvement in Wick-Raisers, of which the following is a specification.

Devices have heretofore been constructed for raising or lowering lamp-wicks in which there is an annular frame or internal toothed wheel having an inclination in order that the wick may be carried upwardly or downwardly by the rotation of this internal toothed wheel; but the apparatus is not easily applied or kept in operative condition.

My present invention relates to the combination, with an Argand burner having a central air-tube over which the wick passes, of a wick-raising wheel having an inclined axis, the teeth of the wick-raising wheel penetrating the wick and giving to the same a rotary movement around the central air-tube and according to the direction in which the wick-raising wheel is rotated, so that the wick will be raised or lowered by the inclined action of the wick-raising wheel. I find it advantageous to make use of two wick-raising wheels upon one shaft, which shaft is inclined, as aforesaid, and the wick-raising wheels operate upon the wick at two places to communicate a more reliable movement.

In the drawings, Figure 1 is a vertical section of the lamp-reservoir and an elevation of the wick and wick-raising wheels; and Fig. 2 is a plan view of the lamp-reservoir and wick-raising devices, a portion of said reservoir and the outer wick-tube and its flaring base being removed. Fig. 3 is an elevation of the lower portion of the air-distributer, and Fig. 4 is an elevation of the wick-tube.

The reservoir A is provided with a central air-tube B, around which is an ordinary Argand wick C. The shaft D passes through the upper part of the reservoir A and stands at an inclination. At one end thereof is a thumb-wheel 2 and near the other end thereof there are one or more wick-raising wheels. I have shown two of such wheels, (marked 3 and 4.) Each wheel is permanently connected to the shaft, and it is provided with penetrating-points around its periphery to enter the wick C. I prefer to use the two wheels, as shown; but one only can be employed, if desired. When the thumb-wheel 2 and shaft D are rotated in either direction, the wick C is revolved more or less around the central air-tube B, and, in consequence of the wheel or wheels 3 4 standing at an inclination to the wick, such wick will be either elevated or depressed as it is rotated, according to the direction in which the shaft D is turned.

The upper part of the reservoir A is formed with a vertical cylindrical flange 5, which is screw-threaded to receive the screw-threaded rim 6 of the outer wick-tube E, which wick-tube is provided with an annular flange 7, which is larger than the upper portion of the wick-tube E and smaller than the screw-threaded rim 6, and around this annular flange 7 the base of the air-distributer F is received, and there is an L-shaped recess at 9 in F and a pin at 8 on E, forming a bayonet-lock to connect the base of the air-distributer F to the annular flange 7.

This invention is especially adapted to the cheaper quality of lamps and of comparatively small size. A flame-spreading thimble G may be made use of at the upper end of the air-tube, if desired.

I claim as my invention—

1. The combination, with the reservoir and central air-tube in an Argand lamp, of a wick-raising shaft occupying an inclined position at one side of the wick and having a thumb-wheel on the upper end and a wick-raising wheel on the lower end with points around its periphery for acting upon the wick and rotating the same around the central air-tube and raising or lowering such wick, substantially as set forth.

2. The combination, with the lamp-reservoir having a central air-tube for an Argand wick, of a wick-raising shaft occupying an inclined position and passing through the reservoir, two wick-raising wheels upon the lower part of the shaft for rotating the wick and raising or lowering the same, and a thumb-wheel on the upper end of such shaft, substantially as specified.

Signed by me this 22d day of April, 1891.

THOMAS HIPWELL.

Witnesses:

CHAS. J. COLLINS,

JAS. D. HENDERSON.