

(No Model.)

T. WALL.  
BURNER FOR LAMPS.

No. 418,478.

Patented Dec. 31, 1889.

FIG - I -

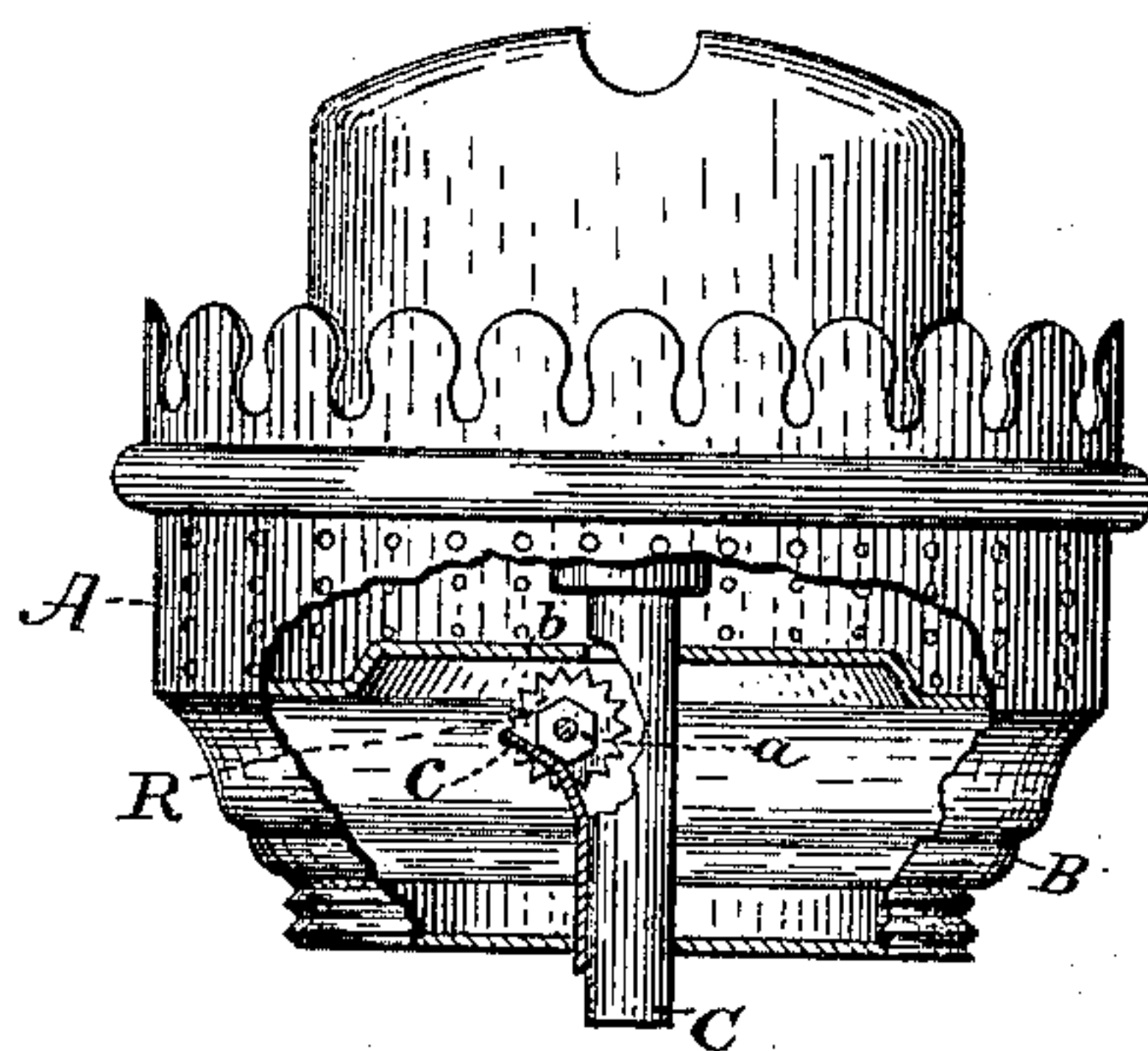
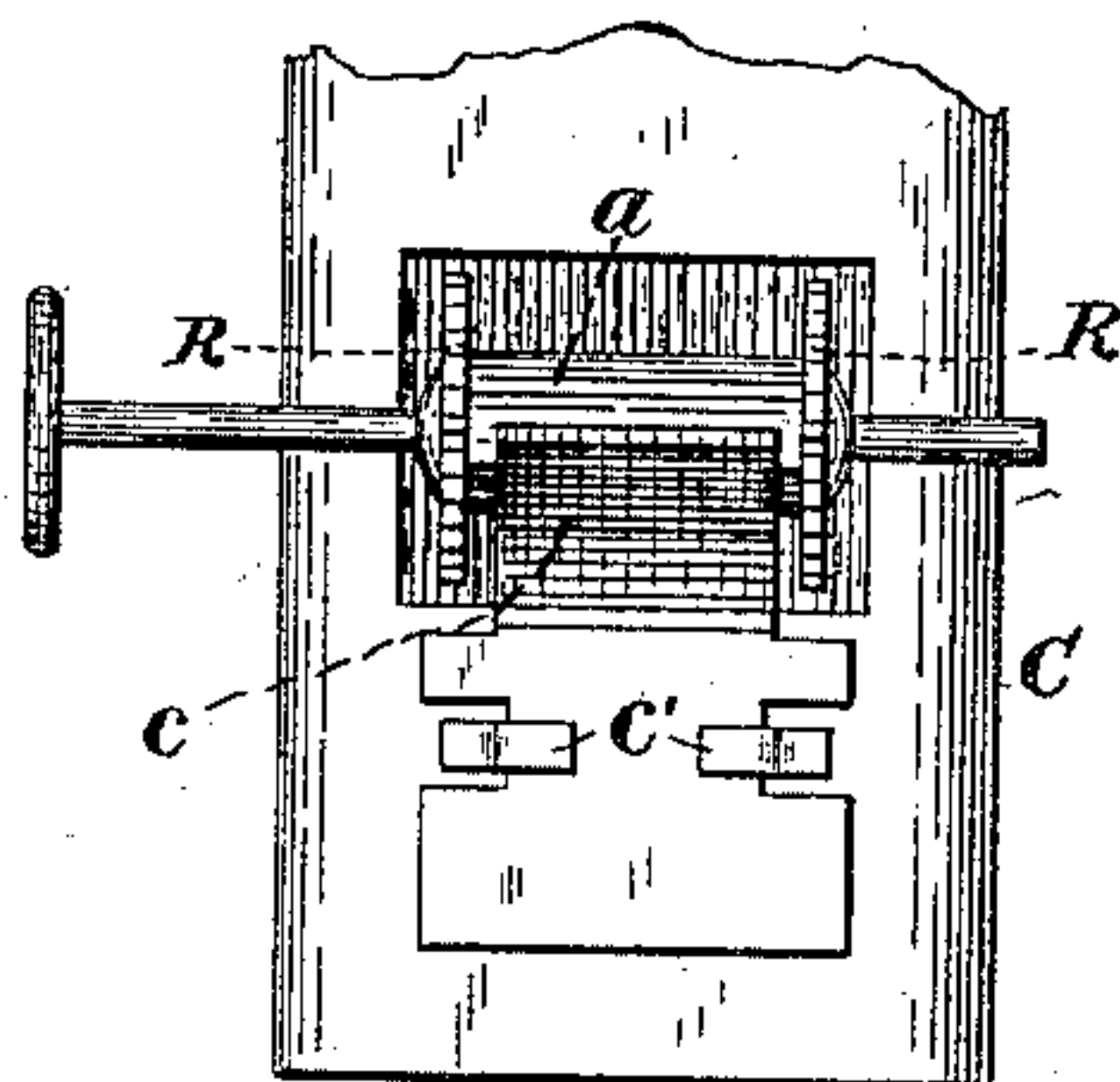


FIG - II -



Attest:  
W.E. Knight.  
E. Arthur

Inventor:  
Thomas Wall  
By Knight Bros.  
attys:

# UNITED STATES PATENT OFFICE.

THOMAS WALL, OF BROOKLYN, NEW YORK, ASSIGNOR TO HIMSELF AND  
ROBERT SEALY, OF SAME PLACE.

## BURNER FOR LAMPS.

SPECIFICATION forming part of Letters Patent No. 418,478, dated December 31, 1889.

Application filed April 26, 1888. Serial No. 271,991. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS WALL, of the city of Brooklyn, county of Kings, and State of New York, have invented new and useful  
5 Improvements in Burners for Lamps, of which the following, taken in connection with the accompanying drawings, is a full, clear, and accurate description.

In the drawings, Figure I represents an elevation of the burner with parts broken away to show interior. Fig. II is a detail of wick-chamber and wick-raising mechanism.

Similar letters of reference refer to similar parts.

15 My invention consists of an improved apparatus for holding the wick in the tube of the burner so that it cannot be displaced by jolting or jarring.

My improved apparatus for holding the  
20 wick in position consists in so arranging the ratchet for raising and lowering the wick that it is held tightly in one position by means of a spring bearing on one of several faces formed on the spindle, while the teeth of the  
25 ratchet-wheel are engaged in the wick, and for this purpose I place a square or hexagonal collar on the axis of the ratchet-wheel and so attach a spring upon the lower part of the wick-tube that the free end of the spring  
30 presses upon one side of the square or hexagonal collar.

In the drawings, A represents the burner; B, the screw-cap of the lower portion of the burner; C, the wick-tube; R, the ratchet-wheel; *a*, the square or hexagon-shaped collar; *b*, the bottom plate of the burner A, to which

the wick-tube is attached; *c*, the spring pressing against the square or hexagon-shaped collar *a*; *c'*, clips holding the spring *c* against the wick-holder *d*.

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

1. A wick-raiser for lamps having a spindle formed with one or more faces, and a spring  
45 bearing against said faces, whereby the wick is retained against involuntary displacement, substantially in the manner set forth.

2. In a wick-raiser for lamps, the combination, with the spindle carrying suitable ratch-  
50 ets for engagement with the wick, of an additional ratchet and a spring engaging such additional ratchet, substantially as and for the purpose set forth.

3. In a wick-raiser for lamps, the combination, with a spindle carrying a suitable ratchet, of a square-faced collar on the spindle, and a spring bearing against the faces of the collar, substantially as and for the purpose set  
60 forth.

4. The combination, with the ratchet-spindle of a wick-raiser, of a polygonal collar mounted on the spindle, and a flat spring bearing on the edge of the collar, as and for the purpose explained.

In testimony whereof I have hereunto set my hand this 10th day of April, 1888.

THOMAS WALL.

In presence of—

ROBERT SEALY,  
HENRY F. COE.