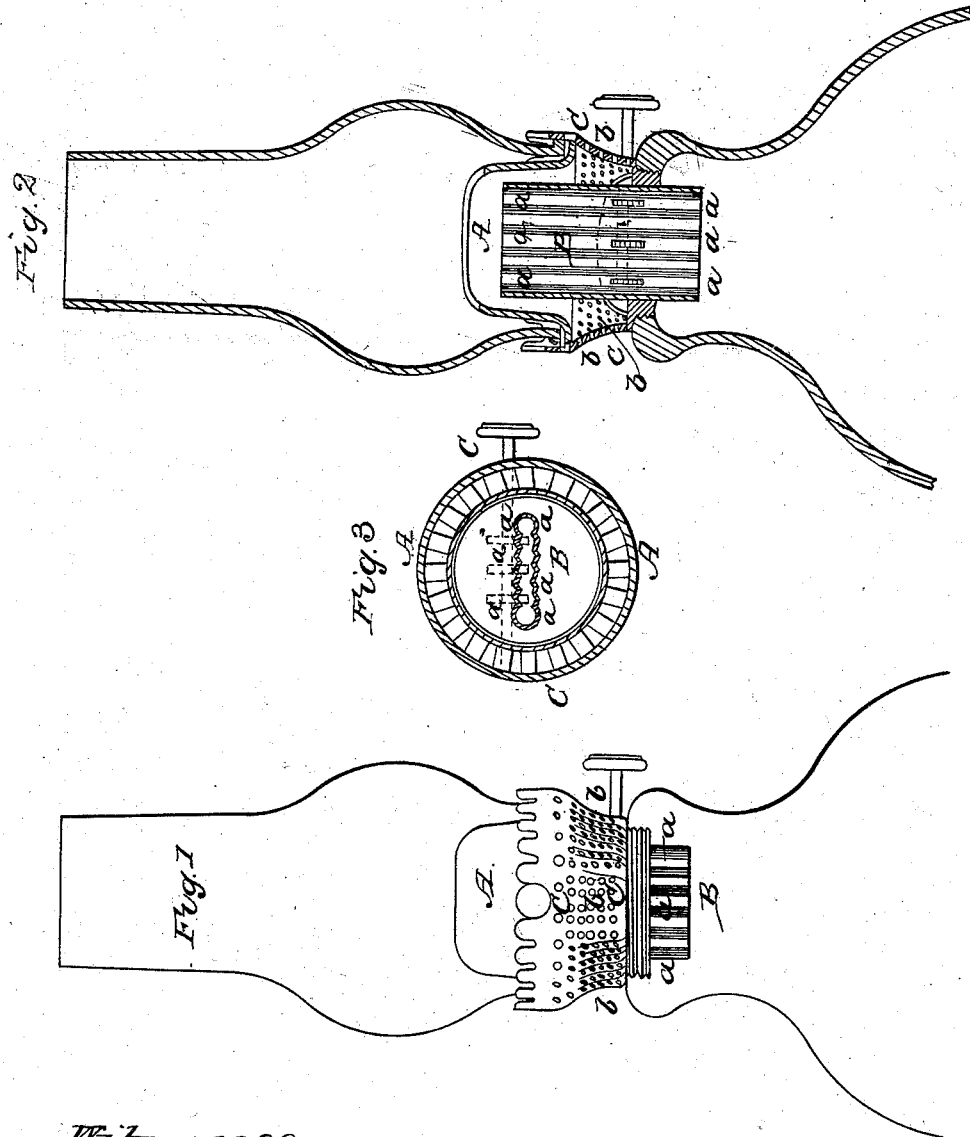


H. W. HAYDEN.

Lamp.

No. 47,680.

Patented May 9, 1865.



Witnesses
A. P. Hall Jr.
Arthur Neill

Inventor
Hiram W. Hayden

UNITED STATES PATENT OFFICE.

HIRAM W. HAYDEN, OF WATERBURY, CONNECTICUT, ASSIGNOR TO
HOLMES, BOOTH & HAYDEN.

IMPROVEMENT IN LAMPS.

Specification forming part of Letters Patent No. **47,680**, dated May 9, 1865.

To all whom it may concern:

Be it known that I, HIRAM W. HAYDEN, of Waterbury, in the county of New Haven and State of Connecticut, have invented an improvement in lamps for burning kerosene or other fluids rich in carbon; and I do hereby declare the same to be fully described and represented in the following specification and the accompanying drawings, of which—

Figure 1 is a side view, Fig. 2 a vertical section, and Fig. 3 a horizontal section, of the movable part of a lamp-cap provided with my invention.

In the said drawings, A exhibits the cone or deflector, B the wick-tube, and C the wick-tube and deflector holder or supporter.

In constructing the wick-tube B, I make it corrugated lengthwise or with parallel grooves or channels extending down through it from

end to end and on its inner surface, the same being as shown at *a a a* in Figs. 2 and 3. The advantage of such is that the oil, particularly when a heavy oil is used, is conveyed to and taken up to better advantage by the wick than it is when such wick is encompassed and held by a cylindrical or flat-sided tube.

The burner in which my wick-tube is inserted is represented in the drawings.

What I desire to secure by Letters Patent is—

Making the wick-tube corrugated or fluted with channels in its interior surface, substantially as and so as to operate as specified.

HIRAM W. HAYDEN.

Witnesses:

R. H. EDDY,

ELISHA K. COLLINS.