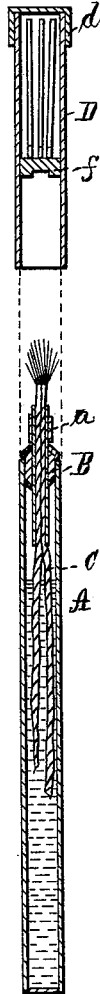


J. C. MAIRS.

LAMP.

No. 188,649.

Patented March 20, 1877.



WITNESSES,

Wm. Aubrey, Fulmin.
Frank L. Oswald.

INVENTOR

John C. Mairs.
Alexander Mason
ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOHN C. MAIRS, OF STEUBENVILLE, OHIO.

IMPROVEMENT IN LAMPS.

Specification forming part of Letters Patent No. **188,649**, dated March 20, 1877; application filed January 20, 1877.

To all whom it may concern :

Be it known that I, JOHN C. MAIRS, of Steubenville, in the county of Jefferson, and in the State of Ohio, have invented certain new and useful Improvements in Combined Lamp, Taper, and Candle; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction of a lamp, taper, and candle combined, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which the figure thereof represents a sectional view of my invention.

This combined lamp, taper, and candle is composed of a tube, *A*, from four to twelve or more inches in length, and from one-quarter to one inch or more in diameter, to be made of metal, glass, or any other suitable material. This tube is closed at one end, and open at the other end. The wick-tube or burner *B* either screws into or fits accurately into the open end of the main tube, making a perfectly tight joint. The wick-tube is composed of two pieces. The main wick-tube is about one inch in length, with a tube, *a*, fitting closely on the outside of the main wick-tube, about one-half the length of the main wick-tube, which will slide up and down, and still fit tight enough to keep its place.

The object of this sliding tube is to control the size of the flame, and also to control the wick. The outside tube should be kept well up when the wick burns down level with the top of it. By sliding this tube down it exposes the wick *C*, so as to enable one to draw the wick up again.

This lamp, taper, or candle has also a cap, *D*, a little larger in diameter than the main tube, to extinguish the light, and also to prevent the loss of fluid by evaporation, and to protect the burner when the lamp is not in use.

This cap is made to fit accurately over either end of the main tube by sliding on. When the lamp is in use it is put on the closed end of the main tube, which gives greater length of handle. It also prevents the cap getting mislaid or lost, and can also be used as a match-safe by having a partition, *f*, in it, and a lid, *d*, on the end.

This division or partition being made of cork or rubber, and placed at a proper distance from the open end of the cap, it corks or closes the end of the wick-tube so close as to prevent the least leakage of fluid.

Having matches always at hand is a great convenience, should the light happen to be extinguished from any cause. In using this combined lamp, taper, or candle, saturate sufficient wick with kerosene, carbon-oil, alcohol, or any suitable oil or fluid to fill the tube.

A tube five-eighths of an inch diameter and eight inches long, thus prepared, will burn about three and a half hours, and will burn in any position you place it, either standing or lying.

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

The combination of the tube *A*, wick and burner having sleeve *a*, and the cap *D*, provided with partition *f*, all substantially as herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 13th day of January, 1877.

JOHN C. MAIRS.

Witnesses :

I. S. LOWE,
S. H. MCBETH.