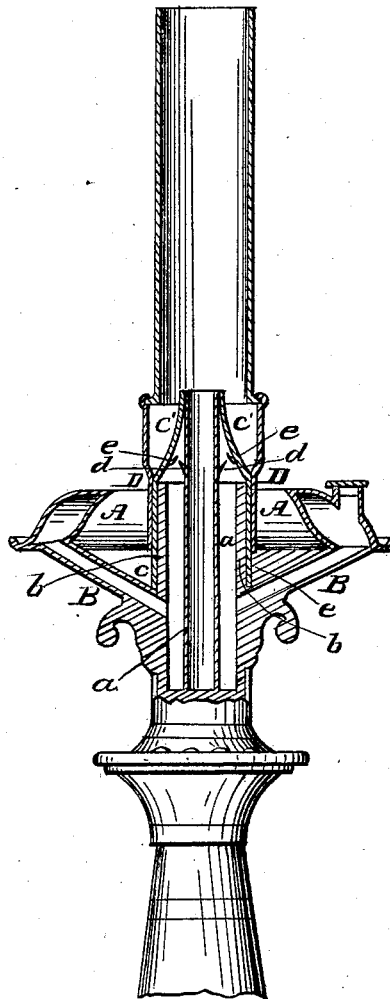


C. CARR.  
Vapor Burner.

No. 1,644.

Patented June 20, 1840.



# UNITED STATES PATENT OFFICE.

CHARLES CARR, OF PHILADELPHIA, PENNSYLVANIA.

## ORDINARY ARGAND OIL-BURNER FOR ADAPTING IT TO BURN SPIRITS OF TURPENTINE.

Specification of Letters Patent No. 1,644, dated June 20, 1840.

*To all whom it may concern:*

Be it known that I, CHARLES CARR, of the city of Philadelphia, in the State of Pennsylvania, have invented an Improvement in Lamps for the Purpose of Burning Spirits of Turpentine or Compounds in which Spirits of Turpentine is the Principal Ingredient; and I do hereby declare that the following is a full and exact description thereof.

My improvement consists in the adapting of the ordinary Argand lamp burner, in which oil is the fluid used, to the purpose of burning of spirits of turpentine; by which improvement I am enabled, at a cost not exceeding one fourth of that required by the plans heretofore known, to adapt the Astral and other lamps having Argand burners, to the economical and perfect combustion of spirits of turpentine.

In the accompanying drawing I have shown an Argand burner, in section, as connected with a small Astral lamp, with my improvements thereon.

A, A, is the reservoir for oil, and B, B, the tubes by which the oil is conveyed down to the lower part of the burner C. The inner tube *a, a*, and the outer tube *b, b*, of this burner, receive the wick in the space between them, in the ordinary way, but this wick consists simply of a strip of cotton cloth, as in other lamps for burning spirits of turpentine, said strip being passed down within said space. To the outer tube of the burner I adapt a sliding tube *c, c*, which,

at its upper end *c', c'*, is of a conical form, and approaches at its mouth so near to the tube *a, a*, as just to allow space for the free passage of the strip of cotton cloth forming the wick. Around the tube *a, a*, I solder a rim, or ferrule, *d, d*, of tin, or other suitable material, the upper edge of which is armed with points, standing out free from the surface of the tube; and within the sliding tube *c, c*, I solder similar pointed pieces, as at *e, e*, also projecting upward by the aid of which the wick may be raised, as required. If the sliding tube is made to descend, the points on the tube *a, a*, will retain the wick in place, and when the said tube is raised, the points upon it will carry up the wick to the height required.

D, D, is a tube with supports E, E, rising from it to the glass chimney, which may be fixed and adjusted in any of the known modes that may be preferred.

Having thus fully described the manner in which I construct my lamp, what I claim therein as constituting my improvement, and which I desire to secure by Letters Patent, is—

The manner in which I have connected and combined the sliding tube *c, c*, with the ordinary Argand oil burner, so as to adapt it to the burning of the spirits of turpentine, and to the raising of the wick as set forth.

CHARLES CARR.

Witnesses:

THOS. P. JONES,  
G. R. WEST.