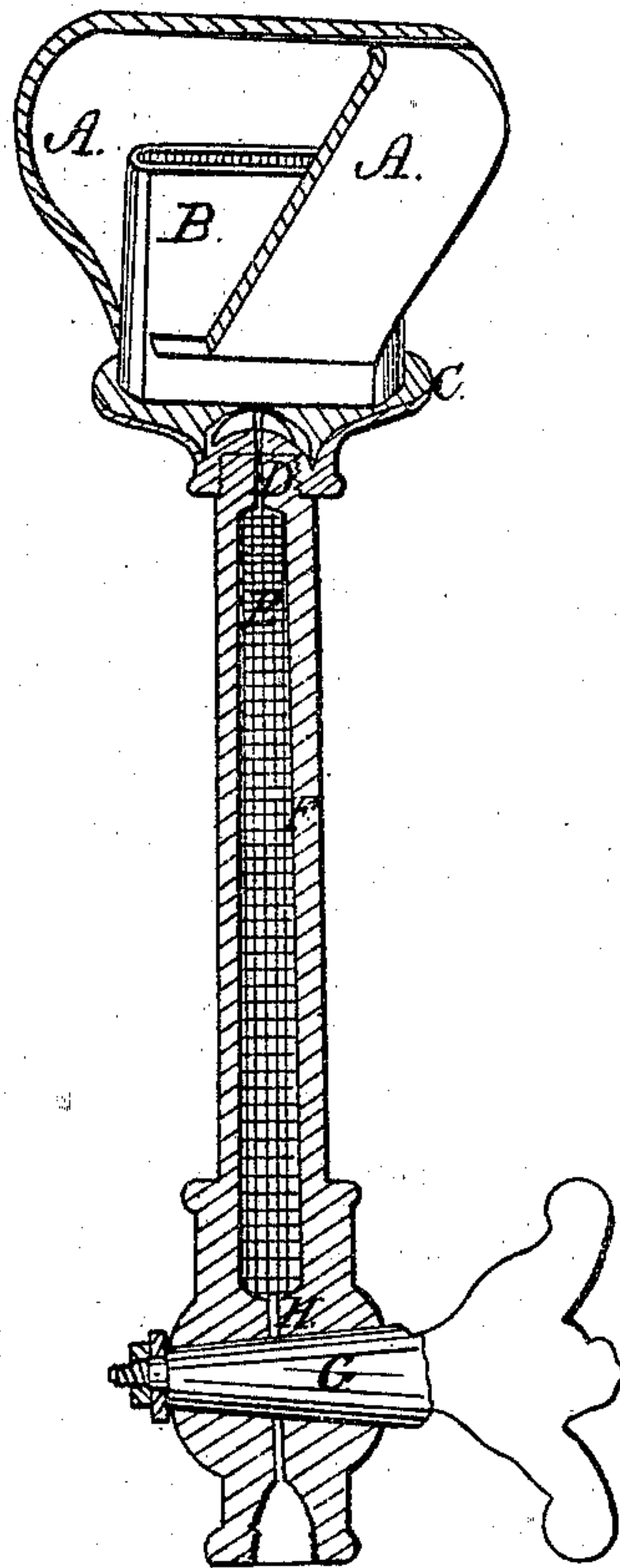


J. E. FINLEY.  
Vapor Burner.

No. 98,680.

Patented Jan. 11, 1870.

*Fig. 1*



*Witnesses*

*Inventor*

*Aug. Hitzfeld*  
*W. R. Mason*

*John E. Finley*

# United States Patent Office.

JOHN E. FINLEY, OF MEMPHIS, TENNESSEE.

*Letters Patent No. 98.680, dated January 11, 1870.*

## IMPROVEMENT IN VAPOR-BURNERS.

The schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern :*

Be it known that I, JOHN E. FINLEY, of Memphis, county of Shelby, and State of Tennessee, have invented a new and useful Improvement in Vapor-Burners; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing, making a part of this specification, in which—

Figure 1 is a vertical section.

A A, flanges or wings.

B, draught-tube.

C, reservoir.

D, hole.

E, packing.

F, tube.

H, hole.

G, cock.

I construct my reservoir, for containing gasoline, or the fluid to be converted into vapor, in any of the usual forms, with cock G, tube F, and packing E, all arranged in the usual manner, to which I add a draught-tube, B, constructed with open bottom, to admit air freely, and directing the flame against the flanges or wings A A, which are heated by means of the flame, and in this manner convert the fluid escaping through

the hole D into gas, while the top of the wings A A are shaped in such a manner as to give the flame a broad fan-tail shape.

Under this tube and flanges, I construct a reservoir or receiver, C, in such a way as to receive all the fluid escaping, when the flame is first lighted, and preventing it from running over the cocks of the burner, or on the floor.

The object of this invention is to furnish a vapor-burner free from the usual hissing noise, and, at the same time, furnish a light not easily extinguished by the draught of air or wind common in the open air, and, at the same time, furnish a broad fan-tail flame, and convert all of the fluid into gas.

In this burner, the hissing sound is prevented by use of the tube B, and, at the same time, the wind is prevented from blowing or extinguishing the flame.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of the tube B with the wings or flanges A A, reservoir C, the whole used in combination, as described, and for the purpose specified.

JOHN E. FINLEY.

Witnesses:

AUG. HITZFELD,  
W. R. MASON.