

T. WARD.
VAPOR BURNER.

No. 75,496.

Patented Mar. 10, 1868.

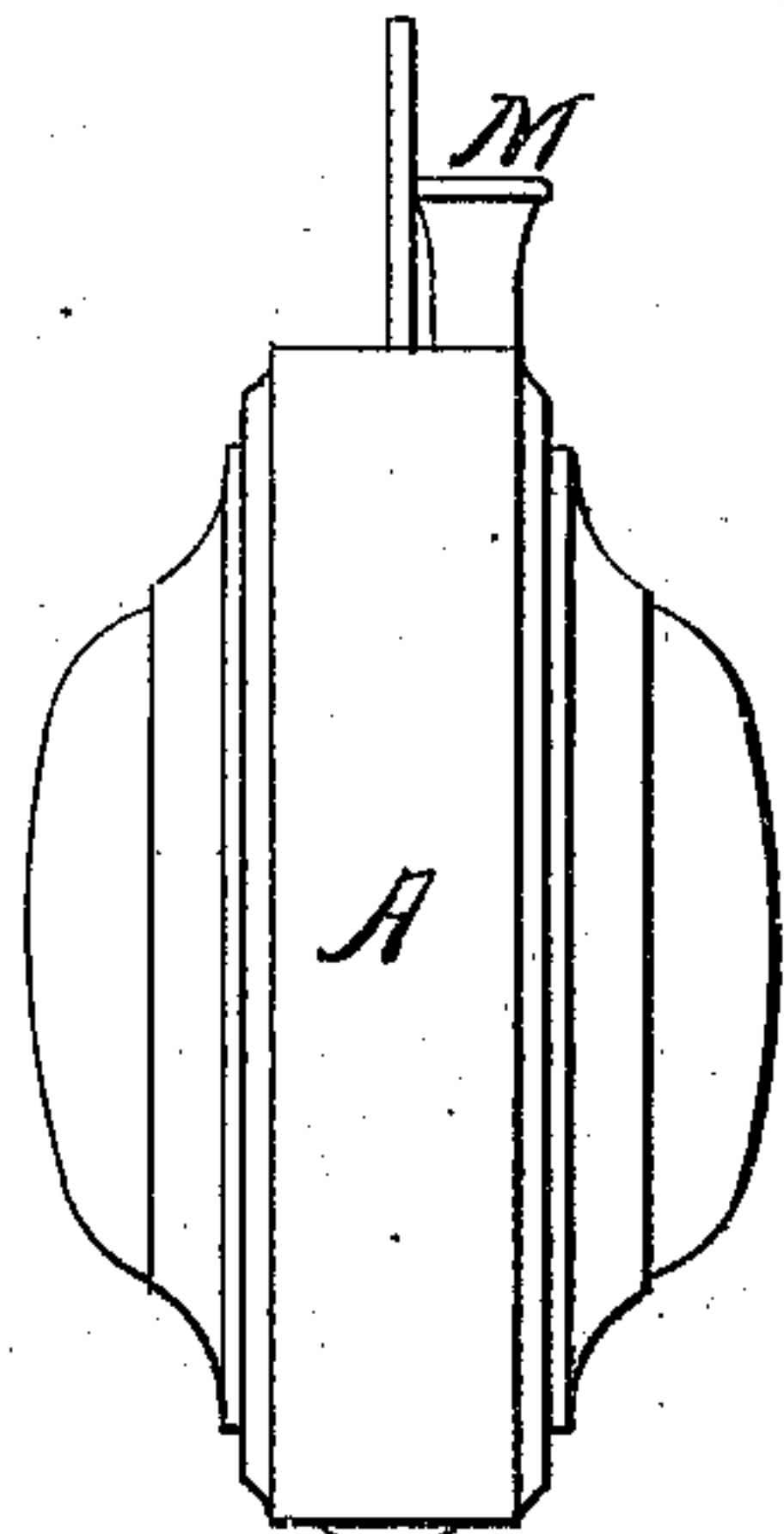


Fig. 1.

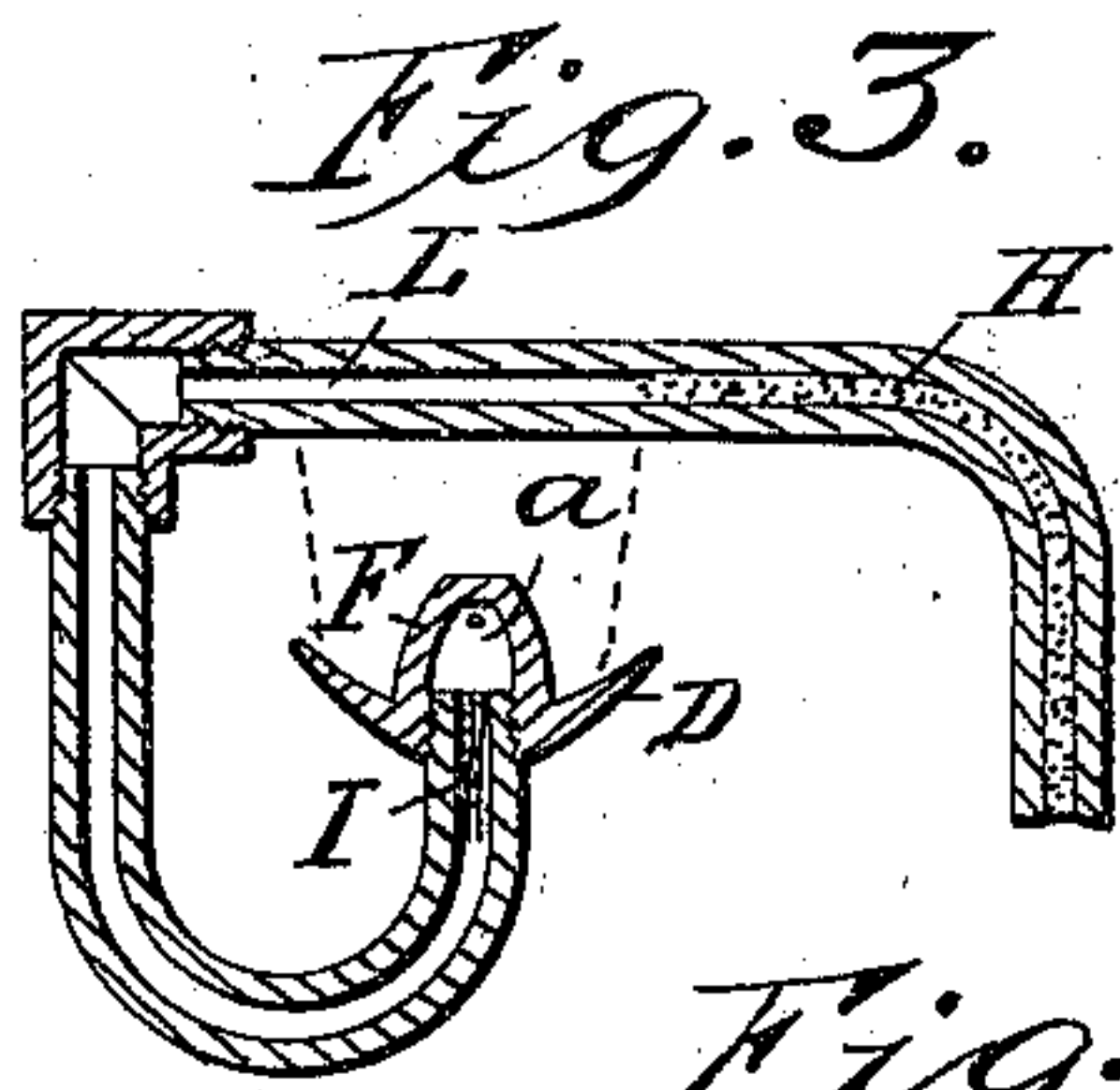


Fig. 2.

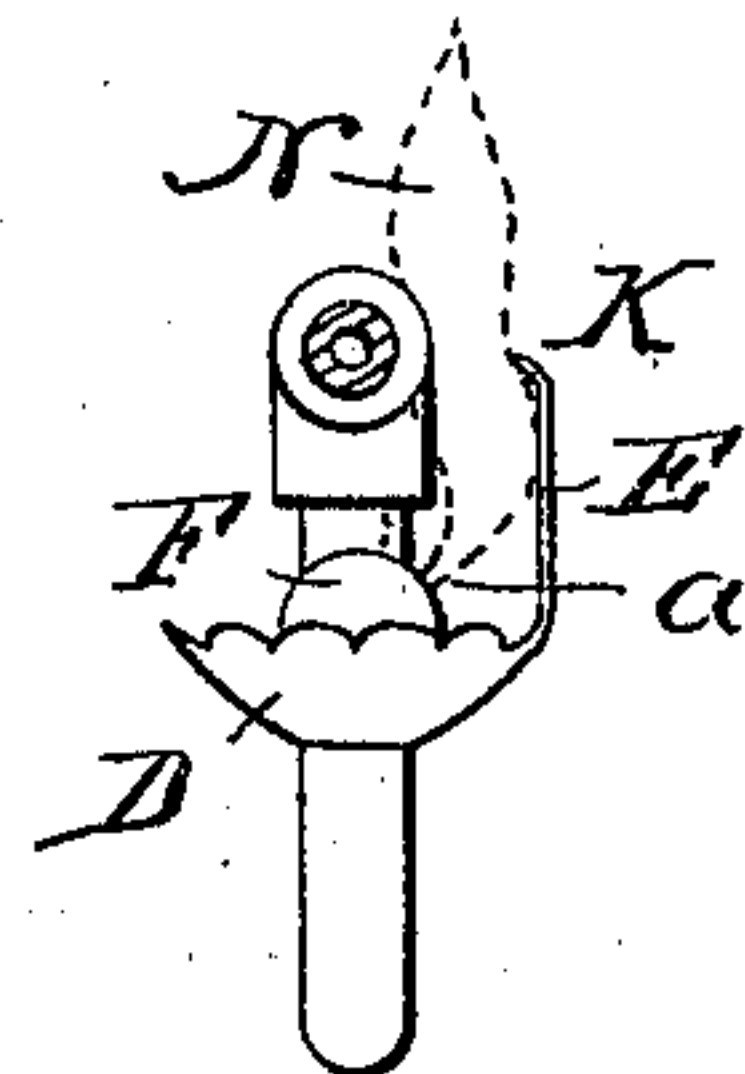
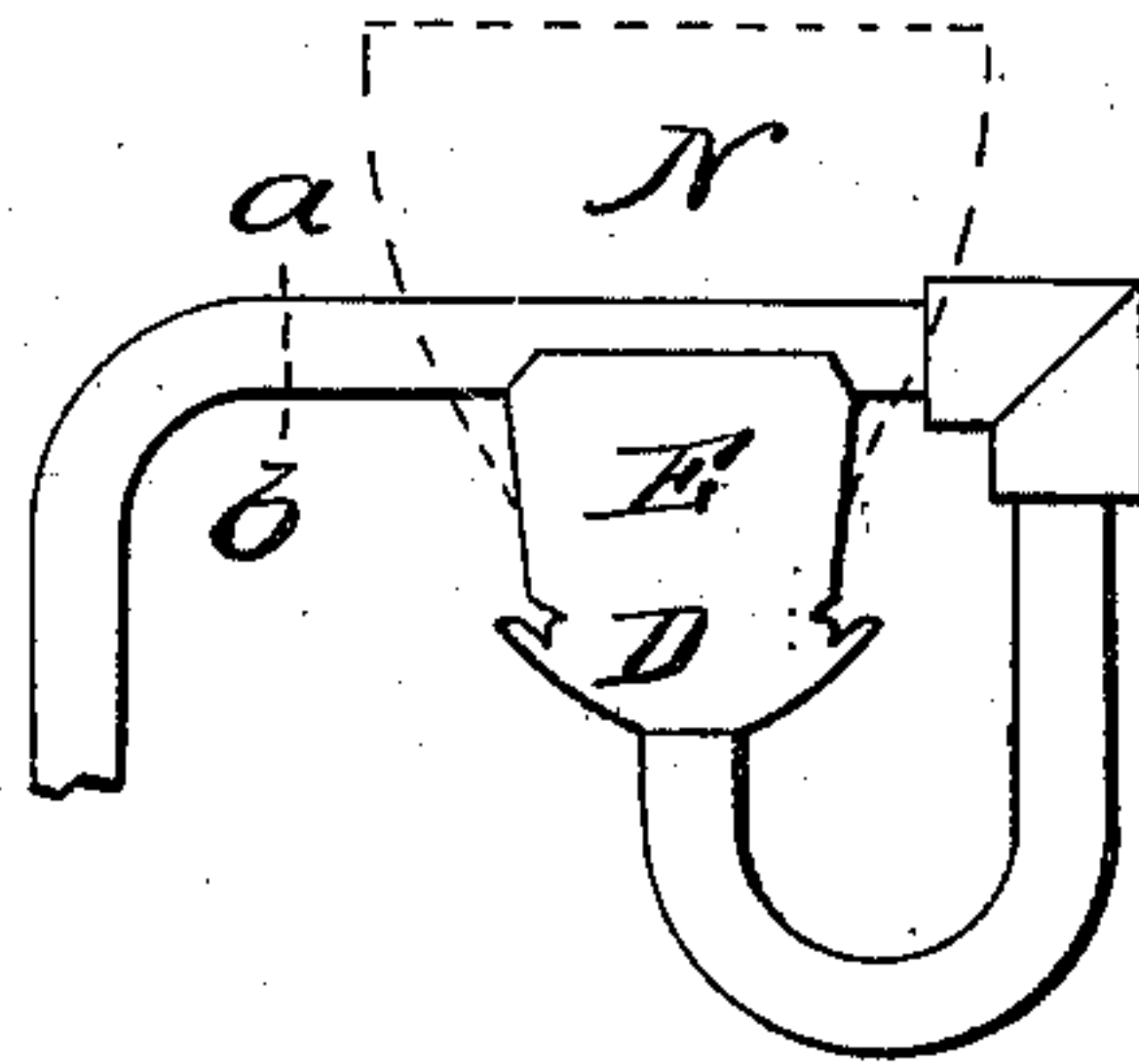


Fig. 4.

B

L

c

Witnesses:

W. S. Smith
James Smith

Inventor

Thomas Ward

United States Patent Office.

THOMAS WARD, OF COLUMBUS, OHIO.

Letters Patent No. 75,496, dated March 10, 1868.

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, THOMAS WARD, of the city of Columbus, in the State of Ohio, have invented a new and useful Improvement in Gas-Lamps; 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 drawings, making a part of this specification, in which—

Figure I is a front view,

Figure II is a side view,

Figure III is an inside view of the burner.

Figure IV, the burner.

My lamp consists of a tin reservoir, A, into which the gasoline or benzine is poured, at the tube M, passing out of the reservoir A through the pipe B, to the burner F, Fig. IV, where it is consumed.

The nature of my invention consists in providing my lamp gas-burner with a double packing; the first packing, H, in Fig. III, to be made of candle-wick, or its equivalent, to regulate the flow of fluid as it passes through the pipes to the generating-chamber L, Fig. III, for volatilization. The second packing, letter I, Fig. III, to be made of brass wire, one inch or more in length, to regulate the flow of gas in its passage from the generating-chamber L, Fig. III, so that no more will pass through the burner F than is consumed; it also retards any of the fluid from passing to the burner, and retains it in the generating-chamber until it is completely volatilized, thereby preventing any waste of the fluid, and by that means keeps the chamber L full of gas, the effect of which is to make it steady in its flow to the burner. I also provide my lamp gas-burner with a plate made of brass or other metal, out of which is made a cup, D, as in Figs. I and II, fastened around the burner F, extending from the cup D upward, as in Fig. IV, letters D E K, and bending inward at the top, at letter K, to the generating-chamber L, for the purpose of destroying any flickering of the light N, Fig. IV, and to throw the flame N on to the generating-chamber, as it passes from the burner F, striking the brass plate E near the letter E.

What I claim as my invention, is—

1. The application of the double packing H and I, to regulate the fluid and gas, as set forth in the above specification.

2. The brass or metal plate F, having the lower end formed into a cup, D, attached to the burner, and its upper end bent inward towards the generating-chamber, all constructed as hereinbefore shown, and arranged in relation to the aperture g, substantially as and for the purposes set forth.

The above specification of my invention signed by me, this 6th day of January, 1868.

THOMAS WARD.

Witnesses:

R. SHIELDS,

WM. BURDELL.