

J. W. Beard

Lighting Street Gas-Lamps.

N^o 71842
Fig. 1.

Patented Dec. 10, 1867.

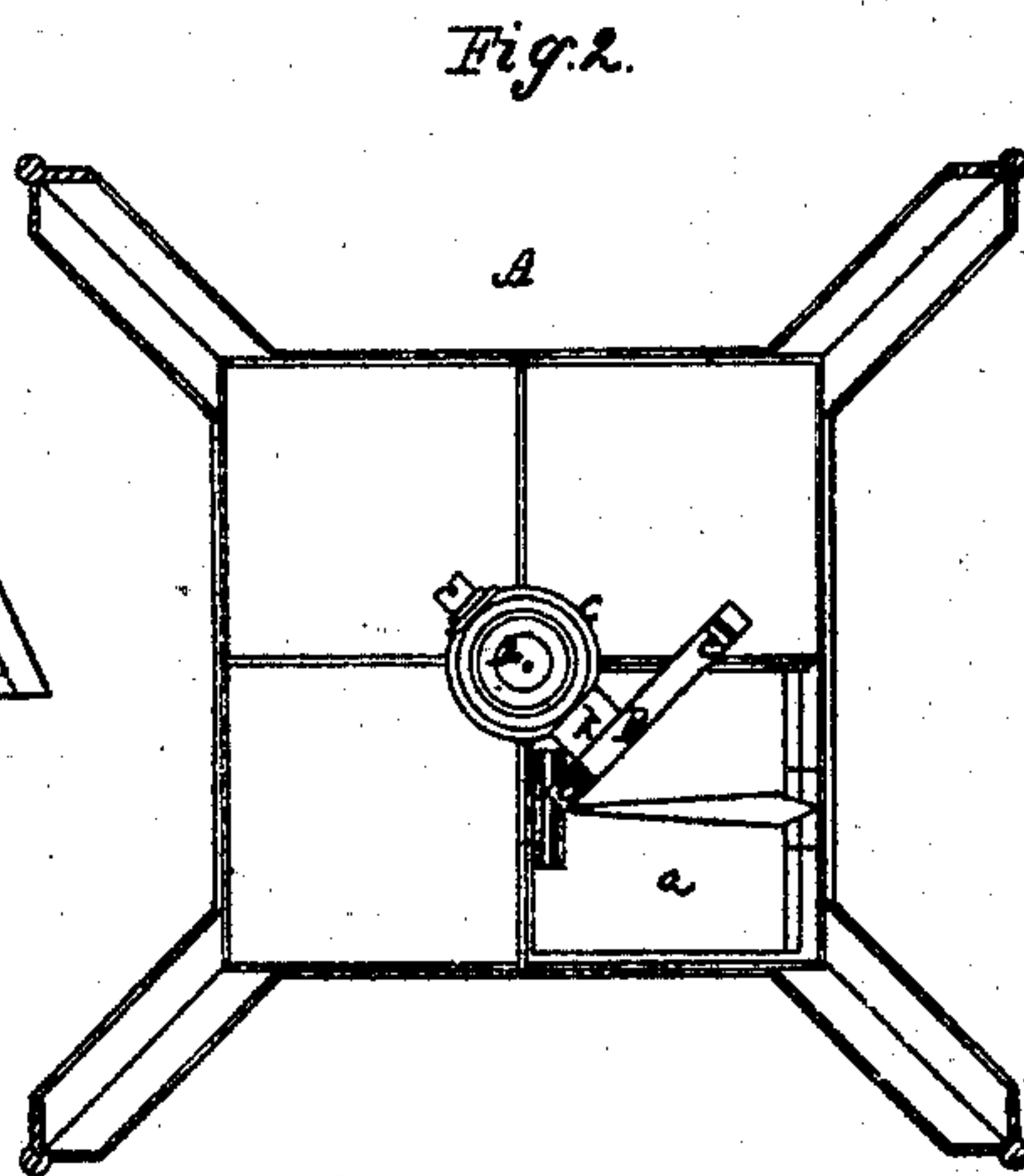
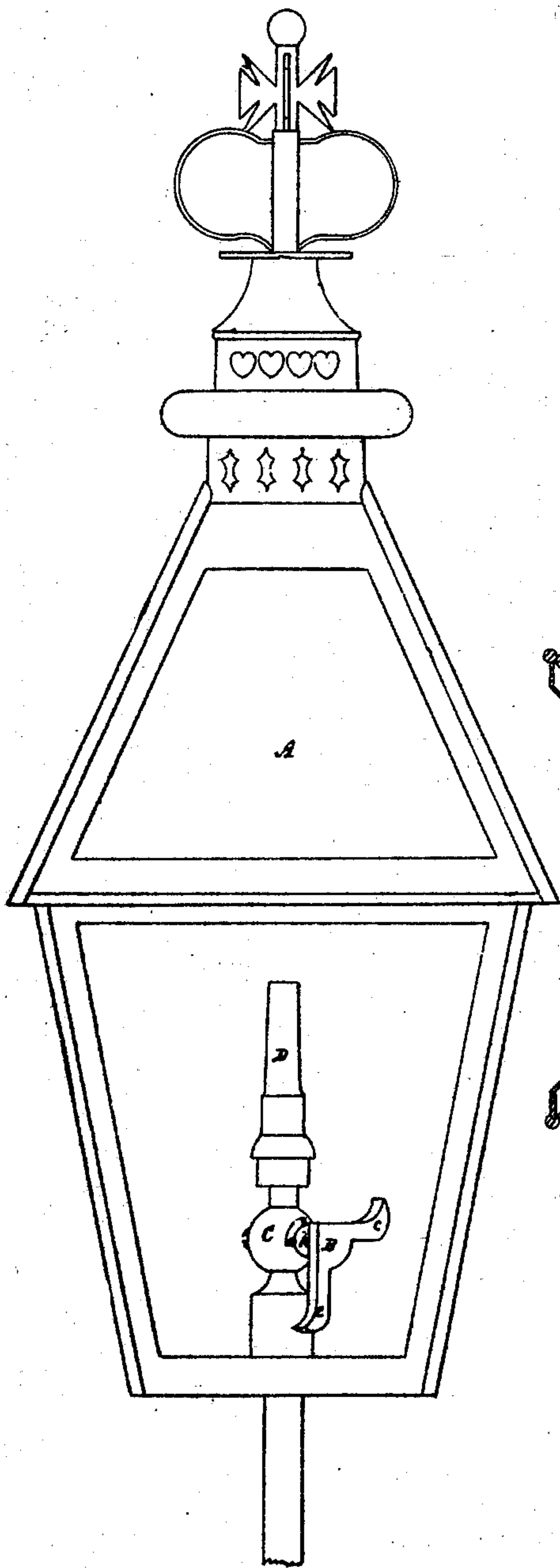
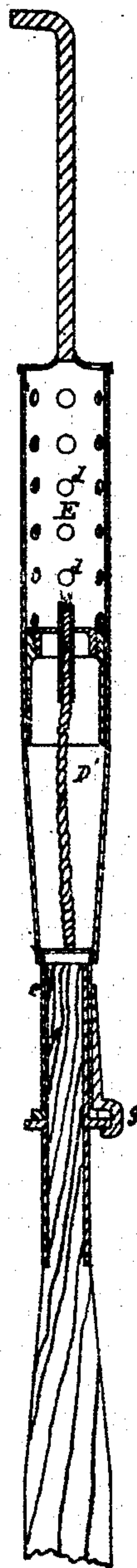
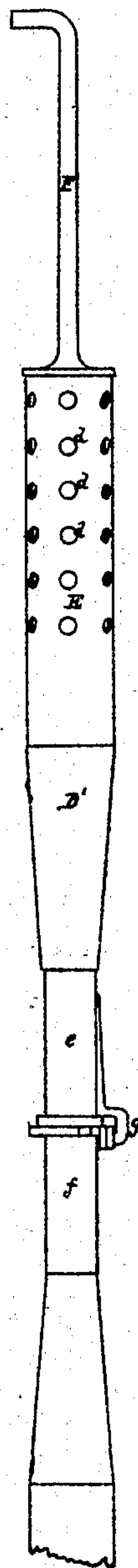


Fig. 3.

Fig. 4.



Witnesses:

Samuel St. Piper
Geo. W. Andrews.

Inventor
John W. Beard.

by his attorney
C. H. Ledy

UNITED STATES PATENT OFFICE.

JOHN W. BEARD, OF ST. JOHN, NEW BRUNSWICK.

APPARATUS FOR LIGHTING STREET GAS-LAMPS, &c.

Specification forming part of Letters Patent No. 71,842, dated December 10, 1867.

To all persons to whom these presents shall come:

Be it known that I, JOHN W. BEARD, of the city of St. John, of the Province of New Brunswick, have made a new and useful invention having reference to Street Gas-Lanterns and apparatus for inflaming their burners; and I do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is an elevation of a lantern constructed in accordance with my invention. Fig. 2 is a horizontal section of it, taken so as to exhibit the small door applied to an opening in the bottom of such lantern. Fig. 3 is a side elevation, and Fig. 4 is a longitudinal section, of the apparatus for inflaming the burner of the lantern.

The purpose of my invention is to enable a lamp-lighter or person to either open or close the cock of the burner, and, when open, to inflame the burner, without the necessity of employing a ladder to ascend to the lantern.

In the drawings, A denotes the lantern, made in the ordinary manner, except in having a small opening through its bottom, and with a door, *a*, applied to such opening, or hinged to one side of it, so as to enable such door to be raised within the lantern and to close by its own weight. The said opening I arrange directly underneath or in close proximity to the head B of the cock C of the gas-burner D of such lantern, and I form such head with two hooked or curved arms, *c c*, projecting from the key *k* of the cock in opposite directions and about at right angles with each other. The hole in the bottom of the lantern I term the "lighting-port."

The apparatus for effecting the movements of the key of the cock and for inflaming the burner may be thus described: It consists of a lamp, D', provided with a cap or tube, E, to encompass the wick-tube of such lamp and extend beyond the lamp, in manner as represented. To the upper end of this tube E a hook, F, is affixed, it being arranged, with respect to the tube, in manner as shown in Figs. 3 and 4. The tube is pierced with numerous holes, *d d d*, and may be fitted to the lamp by

a bayonet-connection. The lamp has a tube, *e*, extending down from it, and constituting a socket to receive a pole or staff, or another tube, *f*, to be fixed on one end of a pole or staff. The two tubes may be furnished with a bayonet-connection, as shown at *g*, whereby they may be connected as occasion may require.

With the lamp mounted on a pole or staff, and provided with the perforated cap and the hook, and inflamed on the wick, the process of operating the key of the cock of the gas-burner of the lantern will be as follows: The lamp-lighter, holding the staff or pole in his hand, should push it upward through the hole in the lantern-bottom, and, by means of the hook, he should pull on one of the arms *c c*, so as to turn the key of the cock and allow the gas to rush into the burner. Next he should bring the cap against the stream of gas, which will enter the cap and be immediately set on fire by the flame of the lamp. This having been done, the apparatus may be withdrawn from the lantern.

The process of extinguishing the flame of the burner is to be effected by again introducing the apparatus into the lantern and hooking its hook on the other arm of the head of the cock and pulling thereon so as to shut the cock.

I claim as my invention the following, viz:

1. The combination of the hook F and the perforated cap E with the lamp D', to be affixed on a pole or staff, as set forth.

2. I also claim the combination of the curved or hooked arms *c c* with the key *k* of the cock of the burner, and their arrangement with respect to the opening in the bottom of the lantern, as explained.

3. I also claim the combination of the socket-tube *e* with the lamp D', its hook F, and perforated cap E.

4. I also claim the combination of the receiving-tube *f* and bayonet-connection *g* with the socket-tube *e*, the lamp D', its hook, and perforated cap, as described.

JOHN W. BEARD.

Witnesses:

GEORGE BLATCH,
HENRY EDGETT.