

No. 778,139.

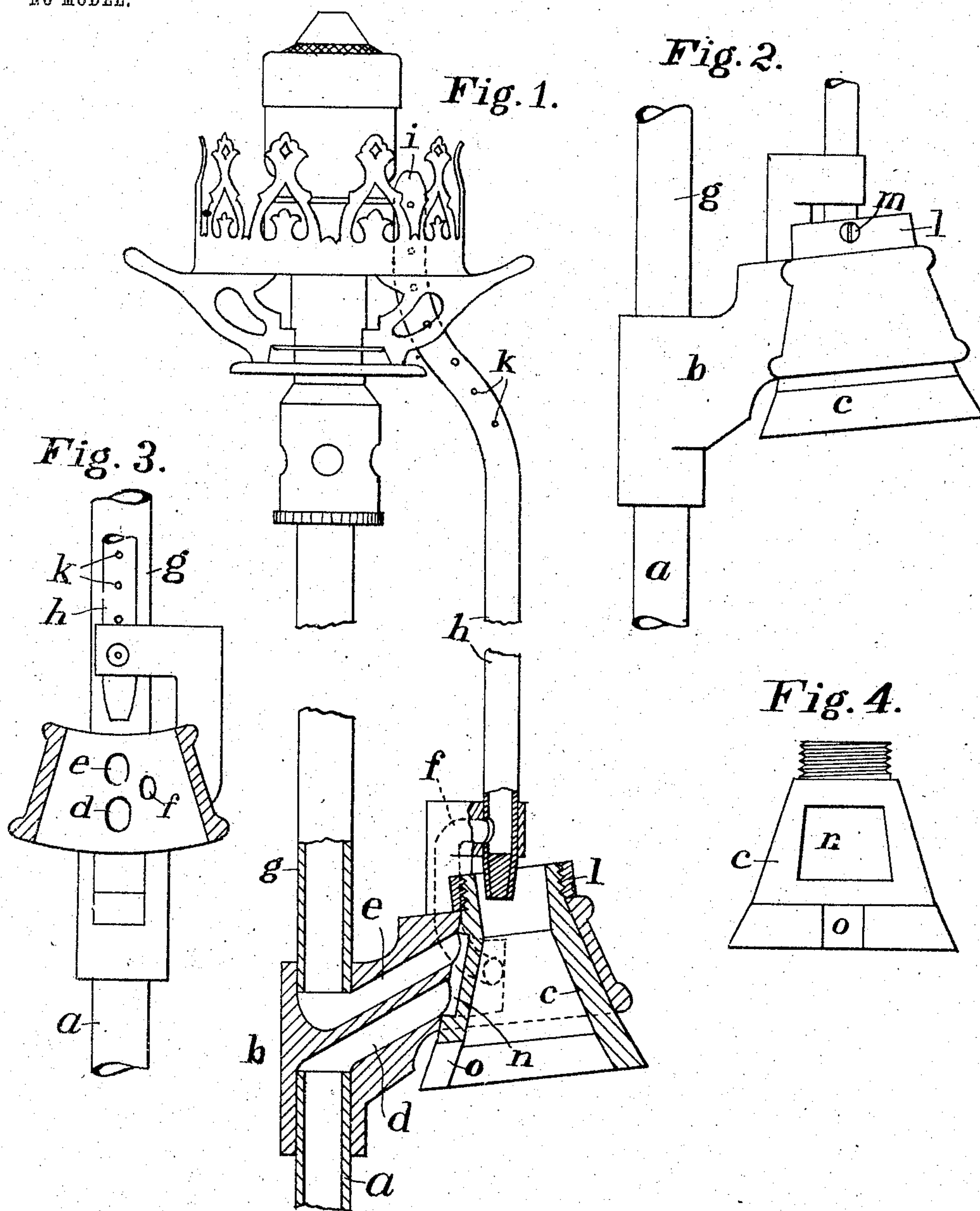
PATENTED DEC. 20, 1904.

P. D. MUYLWÿK.

MEANS FOR IGNITING STREET OR OTHER LAMPS.

APPLICATION FILED AUG. 25, 1903.

NO MODEL.



WITNESSES:

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UNITED STATES PATENT OFFICE.

PIETER DIRK MUYLWYK, OF GOUDA, NETHERLANDS.

MEANS FOR IGNITING STREET OR OTHER LAMPS.

SPECIFICATION forming part of Letters Patent No. 778,139, dated December 20, 1904.

Application filed August 25, 1903. Serial No. 170,690.

To all whom it may concern:

Be it known that I, PIETER DIRK MUYLWYK, a subject of the Queen of the Netherlands, and a resident of 76 Peperstraat, Gouda, Netherlands, have invented an Improved Means for Igniting Street or other Lamps, of which I declare the nature and the manner in which this invention is to be performed in the following description.

This invention relates to means for lighting street or other lamps, more particularly incandescent gas-lamps, by means of a special igniting-flame.

The present invention differs from the known devices of like nature by reason of the fact that in the present case by manipulating the lighting-pole the principal and the igniting (or by-pass) flame are alternately set into and out of action by one operation.

In carrying the invention into effect the gas-pipe of the lamp is provided with a gas-cock having a slot or recess and which communicates, on the one hand, with the pipe leading to the lamp-burner and, on the other hand, with a tube of a type commonly known as an "ascending-flame" igniter-tube, extending from the gas-cock casing up to near the burner and by means of which the flame of the lighting-pole used for turning the cock is communicated to the burner, so as to ignite the lamp-flame.

The igniting arrangement is illustrated in the annexed drawings, which show one form of this device—

Figure 1 illustrates the device, partly in section and in connection with a burner. Fig. 2 is a side elevation, and Fig. 3 a longitudinal section, of the arrangement with the plug of the cock removed. Fig. 4 is a view of the cock-plug.

The gas-pipe *a* of the lamp does not lead direct to the burner, but is connected with a cock-casing *b*, which is provided with three passages *d e f*, communicating with the bore of the cock-plug *c*. Passage *d* is connected with the gas-pipe *a*. Passage *e* communicates with the pipe *g*, which is connected at one end to the cock-casing and at the other to the burner, and passage *f* communicates with an ascending-flame igniter-tube *h*, carried by the cock-

casing. The igniter-tube *h* is preferably arranged so that its lower end is placed close above the cock *c* and extends with its upper end terminating in a small nozzle *i* up to near the burner. The cock-plug *c*, which is held in position by the nut *l* and the screw *m*, is provided with an axial bore and has an external recess *n*, by means of which the passage *d* can be made to communicate, on the one hand, with the passage *e* and, on the other hand, with the passage *f*. At one of its ends the cock-plug *c* is provided with one or several slots or notches *o*, into which suitably-formed catches or projections of the lighting-pole used for turning the cock can be inserted. The extent of its revolution can be limited by means of the screw *m* bearing against the cock-casing.

The manipulation of the device is as follows: The lighting-pole, provided with a lighting-flame at its upper end and fitted with a catch or projection fitting into the slot *o* on the cock-plug, is introduced into the axial bore of the cock-plug *c*. By turning the cock-plug to the right the recess *n* is placed over the three passage-orifices *d e f*. Consequently gas will flow from the gas-pipe *a* into the pipe *g*, leading to the burner, as well as into the igniter-tube *h*. Some of the gas entering the igniter-tube issues from the holes *k* arranged in it and ignites on the flame of the lighting-pole, which issues through the upper aperture of the bore in the cock-plug. The flame thus ignited on the outer surface of the igniter-tube ascends along the series of holes *k* and ignites the gas issuing from the nozzle *i*. This flame will then ignite the burner-flame. The ignition of the burner ensues immediately, and by continuing to turn the cock-plug in the same direction the orifice of passage *f* is closed, leaving passages *d* and *e* only connected with the recess *n* and cutting off the gas-supply to the igniter-tube. Any further turning of the plug is prevented by the screw *m* bearing against the cock-casing. To extinguish the burner-flame, the cock-plug is turned in the opposite direction, whereby the passages *d e f* are shut off. The position of the slot *o* on the cock-plug will show whether the plug is turned back sufficiently to shut off the admission of gas.

The device is arranged on the bottom of the lantern, so that the igniter-tube is inside the lamp to prevent extinction of the igniting-flame by wind or other causes.

5 Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare what I claim is—

1. An igniting device for gas-burners comprising a gas-supply pipe for the burner, an
10 ignition-tube extending to the burner and having a series of perforations distributed along its length, a valve and casing controlling the gas-supply, said casing having passages communicating respectively with the
15 upper and lower sections of the supply-pipe and in substantial longitudinal alinement with each other and also having a passage connecting with the ignition-tube located to one side
20 from said other passages, the valve having a recess adapted to join all of said passages.

2. An igniting device for gas-burners comprising a casing having alined openings for the reception respectively of the gas-supply

pipe and the burner-pipe, and a valve-receiving opening located to one side therefrom and
25 connecting with said pipe-receiving openings by lateral passages, said casing also having an opening for the reception of an igniter-tube and a passage connecting said opening
30 with the valve-receiving opening, and the valve fitting within said opening and having a peripheral recess adapted to control the passages to the various pipes.

3. The combination with a gas-burner and
35 its supply-tube, of an ignition-tube extending upwardly to within the burner, and a valve for controlling the supply of gas to the burner and ignition-tube, said valve having a flaring or coned hollow opening downwardly for the
40 reception of a lighting-torch and means for engagement by said torch to turn the valve.

In witness whereof I have heréunto set my hand in presence of two witnesses.

PIETER DIRK MUYLWÏK.

Witnesses:

LEENDERT CORNELIS VON LOON,
BERNARD LELYNELD.