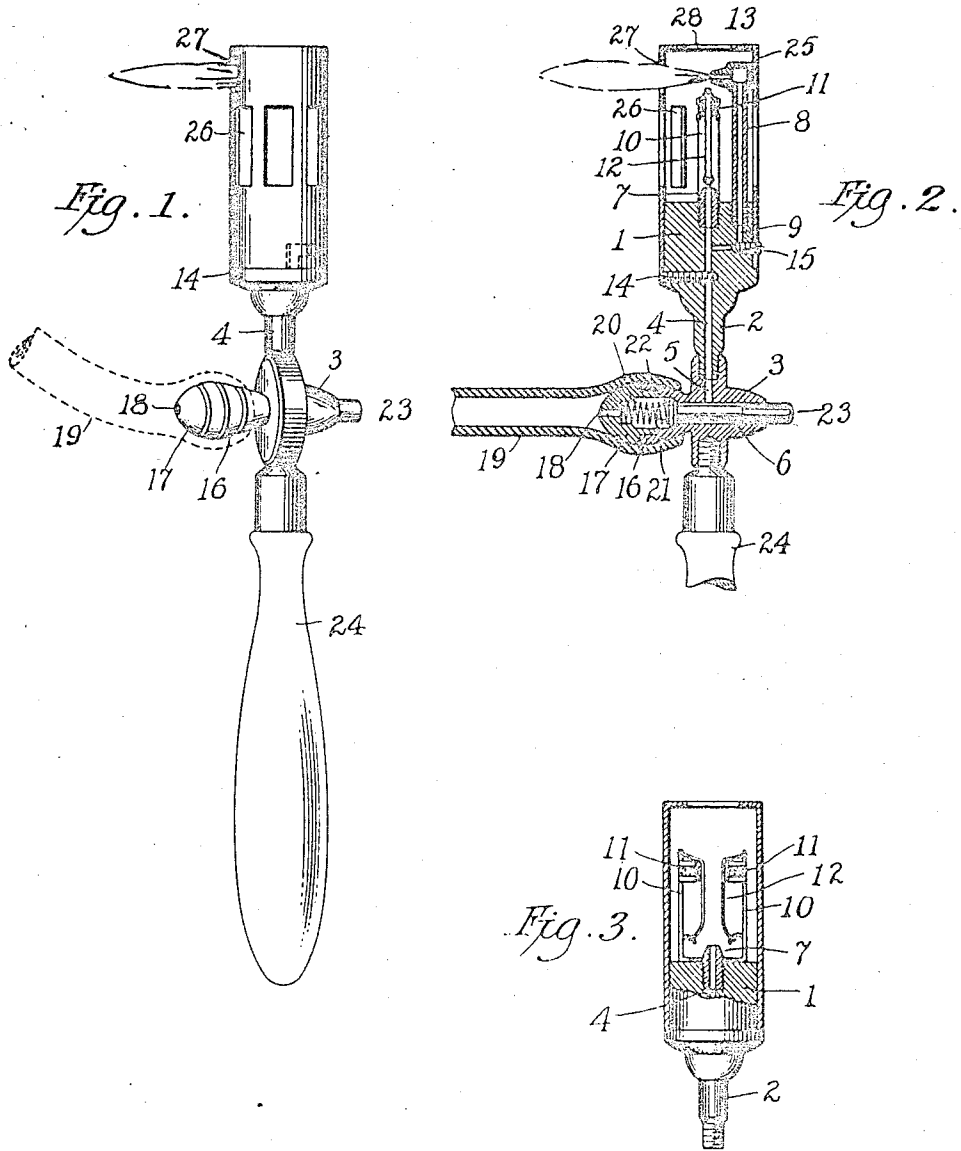


F. M. D'ARSI.
CIGAR LIGHTER.
APPLICATION FILED AUG. 11, 1909.

969,346.

Patented Sept. 6, 19



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UNITED STATES PATENT OFFICE.

FORTUNATO MARCIANO D'ARSI, OF NEW YORK, N. Y., ASSIGNOR TO AUTO-FLAME GAS BURNERS COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

CIGAR-LIGHTER.

969,346.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, FORTUNATO MARCIANO D'ARSI, residing at New York, in the county and State of New York, have invented certain new and useful Improvements in Cigar-Lighters, of which the following is a full, clear, and exact description.

This invention relates to cigar-lighters, and has for its object to provide a device of this kind which is normally extinguished but which is capable of lighting itself at the will of the user.

To this and other ends the invention consists in the novel features of construction and combinations of elements hereinafter described, and more particularly pointed out in the claims.

The preferred embodiment of the invention is illustrated in the annexed drawings, in which—

Figure 1 is a side view of the device. Fig. 2 is a section of the same. Fig. 3 is a section at right angles to the plane of Fig. 2.

The body portion 1 of the device is preferably cylindrical in form, and is provided with a threaded stem 2 by which it is connected to a valve casing 3, said body portion being also provided with a central longitudinal gas passage 4 adapted to register with a passage 5 in the valve casing, which latter passage is in communication with the transverse passage 6. At the top of the passage 4 is a pilot burner 7, and alongside of the same is a main burner 8, in communication with said passage by an angular passage 9. Extending upwardly from opposite sides of the pilot burner are two arms or standards 10, and carried at the top of each is a small mass or pellet 11 of suitable catalytic material capable of igniting, by the well known occluding action, a stream of gas issuing from the pilot burner. Extending downward over the pellets are the usual platinum filaments 12 for facilitating the ignition.

The main burner has a laterally extending burner tip 13, so as to direct its stream of gas across the stream from the pilot burner, and it will therefore be seen that when a flame is produced on the pilot burner the gas issuing from the main burner will be instantly ignited. The flow of gas to the two burners is regulated by two needle or screw

valves 14, 15, extending into the passages 4 and 9 respectively.

At one side of the valve casing 3 is a nipple 16 having a removable cap 17 provided with an aperture 18 for the admission of gas from a flexible tube 19 fitting tightly over the nipple and connecting the same with a source of gas. This tube serves also to suspend the lighter from a chandelier or bracket. Inside the nipple is a small chamber 20 containing a coil spring 21, one end of which abuts against the cap 17 and the other against a valve member 22 normally held by the spring against a seat formed in the valve casing. The stem 23 of the valve member projects to the outside of the casing through the passage 6 and constitutes a finger knob or button by which the valve may be operated to admit gas to the burners. On the underside of the casing 3 is a detachable handle 24, to be grasped by the hand in using lighter.

From the foregoing the operation of the device will be readily understood. Pressure of the finger on the stem or plug permits gas to flow to the burners. Upon the stream from the pilot is by the catalytic pellets and in turn the main burner. The flame from the pilot is directed laterally, as shown, and conveniently directed upon the cigar or cigarette or into the box. If desired, the pilot flame may be regulated, by means of the valve 14, to the flame long enough to reach a distance above the tip of the main burner thereby affording two flames, either the smoker may use, according to the more convenient. Upon releasing the key 23 the valve 22 is moved by the spring and both

To protect the cylindrical shield detachably mounted and provided with a finger knob for free access. At the side of the shield for the main burner is a similar opening. To insure protection of the main burner after the shield is removed, the

point on its lower edge with an upwardly extending slot 29, adapted to fit over the projecting end of needle valve 15 when the shield is properly positioned, as shown.

5 It is to be understood that the invention is not limited to the precise details of construction herein described, as the same may be varied without departure from the proper spirit and scope of the invention as defined
10 by the appended claims.

What I claim is:—

1. In a lighter of the kind described, in combination, a body portion having gas passages, a pilot burner mounted on the
15 body portion to receive gas from one of said passages, a main burner mounted on the body portion to receive gas from another of said passages, needle valves mounted in said body portion and extending into the gas pas-
20 sages to regulate the flow of gas there-through, and a detachable shield inclosing the burners, provided with flame apertures to permit the flames from said burners to extend outside the shield and having a slot

adapted to fit over the projecting end of 25 one of the needle valves, whereby register of the flame apertures with the respective burners in replacing the shield is insured.

2. In a lighter of the kind described, in combination, a body portion carrying a gas 30 burner and automatic means for lighting the same, and a valve connected with the body portion, comprising a casing having a chambered nipple, a cap on the nipple, said nipple and cap constituting means for con- 35 necting the casing with a flexible gas tube to suspend the lighter, a spring-closed valve member inside the nipple chamber, and a finger key or plunger projecting outside of the casing and connected with the valve 40 member to operate the same.

In testimony whereof I affix my signature in the presence of two subscribing witnesses.

FORTUNATO MARCIANO D'ARSI.

Witnesses:

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