April 22, 1930. A. PERRERA 1,755,746

POCKET LIGHTER

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Fig.1

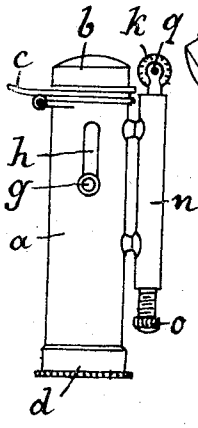


Fig.2

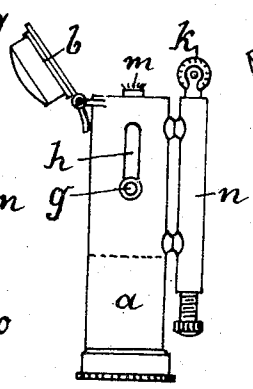


Fig.3

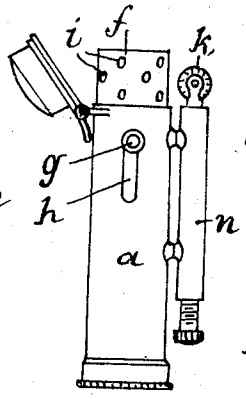


Fig.4

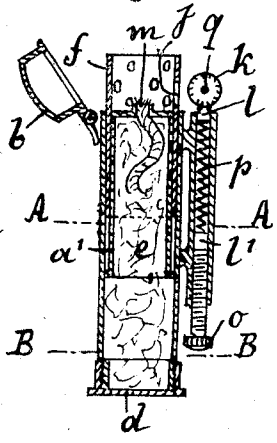


Fig.5

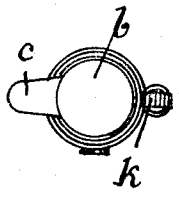


Fig.6

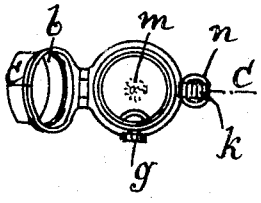


Fig.7

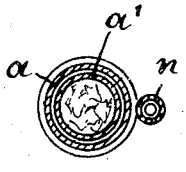


Fig.8

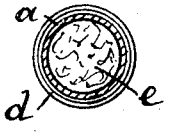


Fig.9

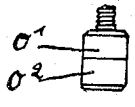


Fig.10

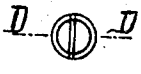


Fig.11

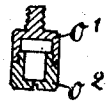


Fig.12

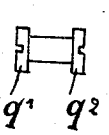


Fig.13



Fig.14



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Fig. 15

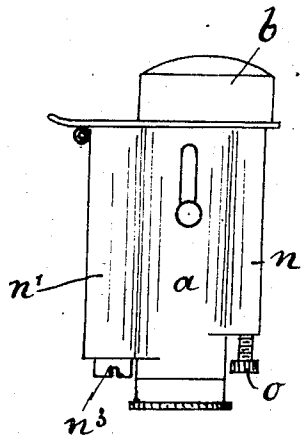


Fig. 16

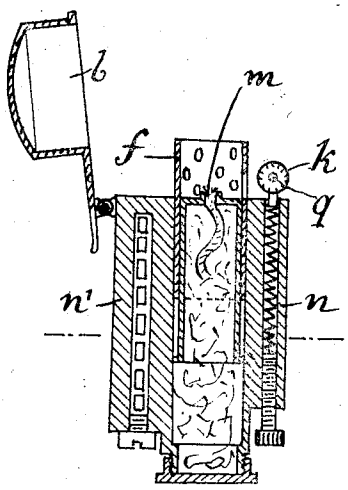
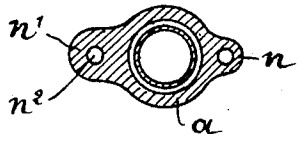


Fig. 17



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Patented Apr. 22, 1930 1,755,746

UNITED STATES PATENT OFFICE

ALTITOLO PERRERA, OF PARIS, FRANCE

POCKET LIGHTER

Application filed January 13, 1927, Serial No. 160,907, and in France December 2, 1926.

This invention relates to a pocket or pyrophoric lighter designed to light a wick, that is adapted to be used as desired either inside a building or outside, in other words under cover or in the open air.

With this object in view, the lighter comprises essentially a perforated sheath for protecting the flame which is adapted to be moved vertically and may be lowered when the instrument is to be lighted in a sheltered place or raised around the flame to protect it when the lighting is effected in the open air.

In order that the invention may be clearly understood, it will now be described with reference to the accompanying drawing which shows several constructional embodiments thereof and in which:—

Fig. 1 is an elevation of the lighter, closed.

Fig. 2 shows the lighter in elevation for use when sheltered.

Fig. 3 shows the lighter in elevation the flame protecting device being raised as used when exposed to the wind.

Fig. 4 is a vertical section on line C—C, Fig. 6.

Fig. 5 shows the lighter closed in plan.

Fig. 6 is a plan of the lighter open.

Fig. 7 is a horizontal section on line A—A, Fig. 4.

Fig. 8 is a similar view on line B—B Fig. 4.

Figs. 9, 10 and 11 are detail views showing a particular construction of the feed screw.

Fig. 11 is a sectional view on line D—D, Fig. 10.

Figs. 12, 13 and 14 show structure of the axis of the striker; Fig. 14 is a section on line E—E, Fig. 13.

Fig. 15 shows in elevation another mode of execution of the lighter with closed cover.

Fig. 16 is a vertical section of same, the cover open and the flame protecting device raised.

Fig. 17 is a horizontal section of same on line F—F, Fig. 16.

The lighter illustrated in Figs. 1 to 8 includes a principal body a, the section of which may be circular, as shown, square, oval, elliptical, polygonal or of other suitable shape; the body a is provided with a hinged cover b adapted to be raised at will by exerting a slight pressure on the projecting tongue c.

The top portion of the container a is provided with the usual holder m from which protrudes the wick, this being in contact with the spongy matter retained as usual in the container; the bottom portion of the container a is closed by a plug d adapted to be screwed on and off and serves for the introduction of the fuel into the lighter.

The body portion a is provided with a supplementary casing a^1 on the interior extending from its top portion to the point e, leaving between it and the wall a a space in which may be lodged a flame protecting sheath f movable vertically which may be caused to protrude outside for lighting when exposed to the wind, or drawn inside for use when sheltered, by means of a button g adapted to slide in a slot h.

The flame protecting sheath f is perforated with small holes i enabling a suitable supply of fresh air for feeding the flame to have access to it without any risk of extinguishing same; the sheath is also provided with an opening or window j which allows a spark produced by the friction of the striker k upon a pyrophoric stone l to ignite the wick protruding from the holder m.

At the side of the body of the lighter is fixed by any suitable means a small tube n, provided at its lower end with a feed screw o which pushes upwards against a spring p which in its turn presses against the pyrophoric stone l so that it is kept constantly in contact with the striker k rotatable upon a spindle q; a spare pyrophoric stone may be contained at l^1 (Fig. 4) between the screw o and the spring p.

The head of the screw o may be hollow as shown in Figs. 9, 10 and 11 and be formed in two parts o^1, o^1 the one screwing on to the other, this allowing of inserting a spare stone in the space o^3 thus formed.

In order to facilitate replacement of the striker k when worn the spindle q may be made as shown in Figs. 12 to 14 by fitting the screws q^1, q^1 one in the other.

In the modification shown in Figs. 15, 16 and 17, the body a is made integral with the

tube n containing the stone and on the other part with a symmetrical portion n^1 provided with a recess n^2 to contain a provision of stones, which is closed at its lower part by a suitable screw plug n^3. It will be noted that in this modification the cover b may cover over both the tube m and the striker q.

It will be understood that the lighter may be of any suitable shape, flat or otherwise, that the cover may be connected by means of a spring and be also of any suitable shape in order to cover over both the wick and the striker or the wick only, and lastly that the flame protecting tube may be indifferently placed inside or outside the body of the lighter.

Although for the purpose of more fully disclosing my invention I have illustrated in the drawing accompanying and forming a part of this specification several specific embodiments of my said invention, it will be understood that I do not limit myself to the particular constructions herein disclosed inasmuch as many modifications may be made therein without departing from the principle of my invention.

What I claim and desire to secure by Letters Patent of the United States is:—

1. A pocket lighter, comprising a body, a supplementary casing therein connected at its lower end to the inner body wall and spaced from the body, a flame protecting sheath slidable in the space between the body and supplementary casing, a wick holder in the top of the casing, and means to operate the sheath at will.

2. A pocket lighter comprising a body, a supplementary casing secured in the body and spaced therefrom, a flame protecting sheath slidable between the casing and body, a wick support in the top of said casing, said body having a slot therein and a button sliding in the slot and connected to the sheath, whereby said sheath is operable at the will of the user.

3. A pocket lighter, comprising a body, a supplementary casing in the body, spaced therefrom and connected to the inner wall of the body between the ends of the latter, said body having a slot longitudinal thereof above the point of connection between the body and casing, a wick support in the top of the casing, a pyrophoric device in igniting position to the wick holder, a perforated shield in the space between the body and casing, and a button passing through the slot and connected to the sheath, said sheath having a window positionable between the wick holder and ignition device.

4. A pocket lighter comprising a body, a wick support therefor and a cover articulated to the body, in combination with a perforated flame protecting sheath independent of the movement of the cover and slidable at will with respect to the wick support and to a variable extent.

5. A pocket lighter comprising a body, a wick support on top of the body and a cover for the wick, articulated to the body, in combination with a pair of spaced walls in the body and a perforated flame protector slidable between the walls to surround the wick support, said support independent of any movements of the cover and slidable at will to variable heights around the support.

6. A pocket lighter comprising a body, a wick support on the body and a cover for the wick articulated to the body; in combination with a flame protector independent of the cover and mounted in the body, a slot in said body and a button connected to the protector through the slot, said protector movable at will to a variable extent by the button when the cover is raised.

In testimony that I claim the foregoing as my invention, I have signed my name.

ALTITOLO (dit MICHEL) PERRERA.