

# PATENT SPECIFICATION



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COMPLETE SPECIFICATION.

## Improvements in Pyrophoric Pocket Lighters.

I, MARTIN HARTMANN, of 74, Frankfurterstrasse, Offenbach-on-the-Main, Germany, a German citizen, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to an improved pyrophoric pocket lighter adapted to be easily operated by one hand and of the kind comprising a spirit container and a friction wheel projecting into an apertured wind shield surrounding a wick adapted to be ignited on rotation of said friction wheel.

Pyrophoric lighters are already known in which a wick and juxtaposed friction wheel are covered by a cap or cover common to both hingedly mounted on a pillar located at the opposite end of the casing.

The present invention however provides in pyrophoric lighters of the type hereinbefore set forth, a construction in which a wick cap is carried at one end of an arm pivotally mounted on a pillar situated at approximately one end of the top of the casing and is attached to a shield projecting over the friction wheel in such a manner as to shield the operative digit from contact with said friction wheel on opening said cap, said shield being provided with a projection or knob adapted to enable the same to be pushed upwards to expose the wick to the action of the spark producing device.

In the preferred form of carrying out the invention the shield with projection is constructed so as to form a cover fully enclosing the operative parts of the pyrophoric lighter.

In order to understand the invention more clearly reference is made to the accompanying drawings which show by way of example two embodiments of the invention.

Fig. 1 shows the pyrophoric lighter in its closed position and Fig. 2 shows it in its open position.

Fig. 3 is a plan of the cap.

Fig. 4 shows a modified lighter in the

[Price 1/-]

closed position and Fig. 5 shows same in the open position.

Referring to Fig. 1, 1 is a spirit container, which may be of any suitable shape, 2 is a wick-extinguishing cap arranged on an arm 3 pivoted at 4 on a column 5, mounted on a casing of the lighter.

At its top the wick cap 2 is attached to a shield 6 extending over the top of the wind shield 7 and bent over the abrasive wheel 8 adapted to rotate on a pillar 9 arranged on the top of the casing. The pillar 9 is hollow and forms an extension of a tube 10 extending through the spirit container 1. This tube 10 is closed by a small screw 11 which carries a spring 12, on the top of which is arranged a piece of pyrophoric metal 13 which abuts against the abrasive wheel 8. By adjusting the screw 11, the friction between the pyrophoric metal and the abrasive wheel can be adjusted in a known manner. The shield 6 is provided with a projection such as a knob 14 and below said knob the shield is extended downwardly as shown at 15 to prevent the operative digit from coming into contact with the abrasive wheel 8 on opening the cap 2 by pushing the knob 14 upwards.

The container 1 is filled with wadding and is provided with a small wick tube 16 carrying a wick 17, and with a threaded plug 18 carrying a threaded receptacle 19 for spare flints of pyrophoric metal.

In the modification shown in Figs. 4 and 5 like numerals correspond to like parts as described in connection with Figs. 1—3. The shield 6 carrying the knob 14 is so arranged as to form a cover for the operative parts of the lighter so that a cap closing said parts is formed. The wick cap 2 preventing in the closed position any vapour from the spirit container passing out of the wick 17 and shielding the operative parts from becoming dirty and in its open position the shield opens the top of the wind shield and allows free access to the flame of the wick, the knob 14 being so arranged that the shield 6 extending at the part 15, shields the operative digit from coming into contact

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with the abrasive wheel 8 on pushing said knob 14 upwards.

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 that what I claim is:—

10 1. In pyrophoric pocket lighters adapted to be easily operated by one hand and of the kind comprising a spirit container and a friction wheel projecting into an apertured wind shield surrounding a wick adapted to be ignited on rotation of said friction wheel, a cap for said wick, said cap being carried at one end of an arm 15 pivotally mounted on a pillar situated at approximately one end of the top of the casing and a shield on said wick cap, said shield projecting over said friction wheel 20 in such a manner as to shield the operative digit from contact with said friction

wheel on opening said cap and being provided with a projection or a knob adapted to enable said shield to be pushed upwards to expose the wick to the action of the spark producing device. 25

2. A pyrophoric pocket lighter as set forth in Claim 1, in which the shield and knob is so constructed as to form a cover fully enclosing the operative parts of the pyrophoric lighter including the wind shield. 30

3. The pyrophoric pocket lighters constructed substantially as described and as shown in the accompanying drawings. 35

Dated this 28th day of October, 1927.

ALBERT L. MOND,  
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[This Drawing is a reproduction of the Original on a reduced scale.]

