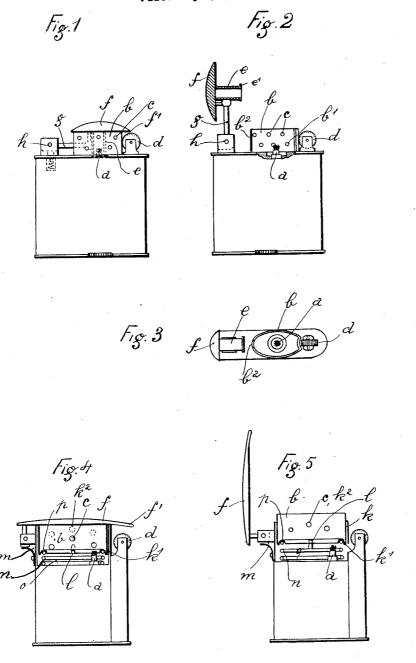
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POCKET OR PYROPHORIC LIGHTER

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UNITED STATES PATENT OFFICE.

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POCKET OR PYROPHORIC LIGHTER.

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My invention relates to a pocket or pyrophoric lighter which may be manipulated with one hand only and which is substantially characterized by the fact that it comprises a heading piece acting as a wind shield which allows of the device being used in all places against the wind. The lighter according to the present invention is also provided with a device designed to seal hermetically the case when closed either by operating as a valve to cover positively the holes in the heading piece or, according to a different mode of execution by hermetically surrounding the wick holder in the manner of a cap.

In the accompanying drawing which illustrates by way of example both constructional

arrangements.

Fig. 1 shows the lighter in its closed position.

Fig. 2 is a part sectional view of the lighter when opened.

Fig. 3 is a corresponding plan view of same. Figs. 4 and 5 are sectional views of a second mode of construction showing the pocket

25 lighter in both positions.

In the drawings and referring first to the construction shown in Figs. 1 to 3, the pocket or pyrophoric lighter comprises at its upper part a heading piece b of suitable height made of thin sheet metal. This heading piece is for example egg-shaped and surrounds the wick holder, it is provided with air holes c and on the side nearer the striker d with a opening b^1 for the passage of the spark. The 35 hermetical closing of the pocket lighter is obtained by means of a small tube e provided at its lower end with a collar e1 which is normally applied upon the wick holder and is closed by a disc f of suitable dimensions to 40 cover also the heading piece, the disc f is provided in front with an edge f which may be lifted by the thumb of the hand holding the lighter; the device consisting of the tube e and the cap f is made in one with a lever g45 pivoted in the usual way upon a spindle hand acted upon by a spring piston. A slit b^2 formed at the back of the heading piece b allows the movement of the arm g.

In the mode of construction shown in Figs. 4 and 5 in which the striker d is placed on one side, the case k of the lighter carries at a suitable point an opening k^1 to allow the passage of the spark said opening being closed

when the lighter is closed by the heading piece b which in the present case is placed 55 inside and is of the same shape as the tube kin which it may slide with a slight friction, a lug l serving as guide. The heading piece band the tube k are provided with similar holes c and k^2 arranged on the same vertical plane, so they are all covered over when the lighter is closed by the cover f which is kept in its position by a strong lateral spring m, the heading piece being then in its lower position. A spring n placed inside between the plate o of 65 the lighter and a groove p suitably formed at the lower part of the heading piece causes the sudden upward movement of the latter when the cover f is lifted. When the spring n is slack, the heading piece being in its highest 70 position, its perforations c correspond with the perforations k^2 of the case and the open-ink k^1 is free. The pocket lighter may then be ignited without any risk of being blown out, however strong the wind may be.

Having now described my invention, I declare that what I claim and desire to secure by Letters Patent of the United States is:

1. A pyrophoric pocket lighter, having a wick, a perforated depressible gallery surrounding the wick and a pyrophoric wheel for lighting the wick, in combination with a spring-urged, pivoted arm, a disc secured to said arm and forming the cover of the gallery, and a snuffer tube secured to the underside of the disc, said disc depressing the gallery when closing thereon and projecting beyond the gallery to form a thumb-engaging edge for raising the disc by the thumb of the hand in which the lighter is held.

2. A pyrophoric lighter having a wick, a perforated, depressible gallery surrounding the wick, a pyrophoric wheel for lighting the wick, and a case; in combination with an extension of the case surrounding the gallery and having perforations that register with the perforations of the gallery when the latter is extended, a disc, a spring hinge therefor, said disc engaging the gallery to depress and cover it, and projecting beyond the gallery and extension to form a thumb-engaging edge to raise the disc by the thumb of the hand in which the lighter is held.

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

JANVIER QUERCIA.