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PATENT



SPECIFICATION

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PROVISIONAL SPECIFICATION.

Improvements relating to Automatic Lighters for the use of Smokers

Communication from RICHARD MONK, Lieutenant in the Army Service Corps,
British Expeditionary Force, France.

I, ROBERT CHARLES HARDY CORFE, of 29, Stanwick Road, Kensington, W., in
the County of London, Merchant, do hereby declare the nature of this inven-
tion to be as follows:—

This invention has reference to automatic lighters for the use of smokers of
5 the kind in which a wick or tinder is ignited by a striker.

The object of the invention is to provide a lighter of the aforesaid character
which may be readily manipulated with one hand thus rendering it particu-
larly adapted for use by persons who have lost an arm.

In accordance with the invention the lighter is of such shape that it may be
10 comfortably accommodated in the palm of the hand for example it may be
cylindrical in form and is provided with a rotatable cowl or hood adapted
to normally enclose or shield the wick or tinder but which may be rotated
to disclose an aperture giving access to said wick. Preferably the top of said cowl
or hood is formed by a hinged lid or cover which may be thrown back so as
15 to afford ready access to the flame when lighting a cigar or pipe for example.

The striking wheel usually employed in devices of this kind is located so as
to project sufficiently beyond the side of casing that it may be manipulated to
produce the spark whereby the wick or tinder is ignited.

A device in accordance with this invention may be readily held in one hand
20 and the rotatable cowl or hood manipulated by the forefinger and thumb to
give access to the wick or if desired the hinged lid may be thrown back without
necessitating the employment of two hands.

By providing a cowl or hood as hereinbefore described not only are the
material parts of the device protected from injury when the lighter is carried
25 in the pocket but the cowl forms a wind shield for the flame.

Dated this 25th day of June, 1918.

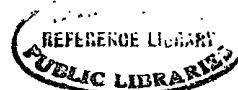
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[Price 6d.]



COMPLETE SPECIFICATION.

Improvements relating to Automatic Lighters for the use of Smokers.

I, ROBERT CHARLES HARDY CORFE, of 29, Stanwick Road, Kensington, W.; in the County of London, Merchant, 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 has reference to pyrophoric igniters for the use of smokers 5 of the kind comprising a container for the wick and absorbent whereby the supply of spirit is ensured to the wick and a detachable cover or hood having a hinged lid and an aperture adapted to register with an aperture in the container whereby access can be obtained to the ignited wick.

The object of the invention is to provide a lighter of the aforesaid character 10 which may be readily manipulated with one hand thereby rendering it particularly adapted for use by persons who are minus one arm.

In accordance with the invention the lighter is of such shape that it may be comfortably accommodated in the palm of the hand for example it may be 15 cylindrical in form the container being provided with an extension having a lateral aperture and an associated cowl or hood adapted to be rotated relatively to and concentrically with the container so that an aperture formed in the cowl may be brought into register with said aperture in the extension on the container, a rotatable igniting wheel being mounted laterally of said container 20 the arrangement being such that the operations of exposing and igniting the wick and subsequently extinguishing the flame may be performed with one hand. Preferably the top of the aforesaid cowl or hood is formed by a hinged lid or cover which may be thrown back so as to afford ready access to the flame when lighting a cigar or pipe for example as is common in devices of the kind 25 to which this invention relates.

In order that the invention may be readily understood and carried into effect same will now be more fully described with reference to the accompanying drawings in which:—

Figure 1, is an elevation of a lighter embodying the invention.

Figure 2 is a vertical longitudinal section on the line 2—2 in Figure 1. 30

Figure 3 is a view partly in section and partly in elevation of the cowl detached and in a position at right-angles to that shown in Figure 2.

Figure 4 is a representation of the cowl detached and as seen from the same view aspect as in Figure 2.

Figure 5 is a perspective view of the upper part of the lighter with the lid 35 thrown back and the flame exposed to view.

Figure 6 is an elevation of a modified form of cowl.

The lighter consists of a cylindrical container 1 whereof the lower portion 2 constitutes a chamber for the reception of a wick 3 and absorbent 4 whereby the requisite supply of spirit is ensured to the wick. The wick 3 is passed 40 through a nozzle or wick tube 5 which projects from a diaphragm or crown piece 6 at the upper end of the chamber 2. The lower end of the container is closed by a detachable screw plug 7. An extension 8 on the container 1 surrounds the wick and consequently the flame when the wick is ignited 45 may be passed for the purpose of lighting the same. Fitting snugly within the extension 8 but with freedom of rotation therein is a cowl or hood 11 consisting of a ring 11¹ and a depending skirt portion 11². The latter is cut away

for a part of its circumference so as to furnish a gap 12 for registering with the aperture 9 in the extension 8 when the cowl is rotated therein. At the upper or outer end the cowl or hood is closed by a hinged lid or cover 13 or a fixed milled button head 13¹ as shown in Figure 6 may be fitted thereto. The hinged lid 13 is provided with a catch piece 14 which is adapted to engage in a recess 15 in the ring 11¹ the automatic opening or throwing back of the lid when released being effected by a suitable spring arranged at or near the hinge. Adjacent or adjoining the container 1 is a holder 16 for the usual sparking material the adjustment of the latter towards the operating or striking wheel 17 being effected as is usual by means of a spiral spring (not shown) and a regulating screw 18. In the present construction the striking wheel 17 is preferably somewhat larger than is customary in lighters of the type referred to and is arranged to project sufficiently beyond the casing to enable its manipulation for the purpose of producing the spark whereby the wick or tinder is ignited to be readily accomplished by the finger of the hand holding the lighter.

In order to facilitate the rotation of the cowl or hood 11 the ring 11¹ and periphery of the lid may be roughened or milled so as to present a hold fast similar to the milling on the button-head shown in Figure 7. Or radial projections (not shown) may be formed thereon with a view to providing a hold for effecting its rotation.

A device in accordance with this invention is eminently adapted for being manipulated without the necessity for employing two hands. When held in the palm of one hand the rotatable cowl or hood may be readily turned by the forefinger and thumb so as to either give access to the wick or extinguish the flame and the striking wheel may be manipulated with the thumb and the hinged lid may also be released and thrown back by a simple movement of the thumb against the catch 14.

Having now particularly described and ascertained the nature of my said invention, as communicated to me by my foreign correspondent, and in what manner the same is to be performed, I declare that what I claim is:—

1. An automatic lighter of the kind herein referred to in which a cylindrical container is provided with an extension formed with a lateral aperture and an associated cowl or hood adapted to be rotated relatively to and concentrically with the casing so that a gap formed in the cowl or hood may be brought into register with said aperture, a rotatable igniting wheel being mounted laterally of the container the arrangement being such that the operations of exposing and igniting the wick and subsequently extinguishing the flame, may be performed with one hand.

2. An automatic lighter having its parts constructed arranged and adapted for operation substantially as hereinbefore described with reference to the accompanying drawings for the purpose specified.

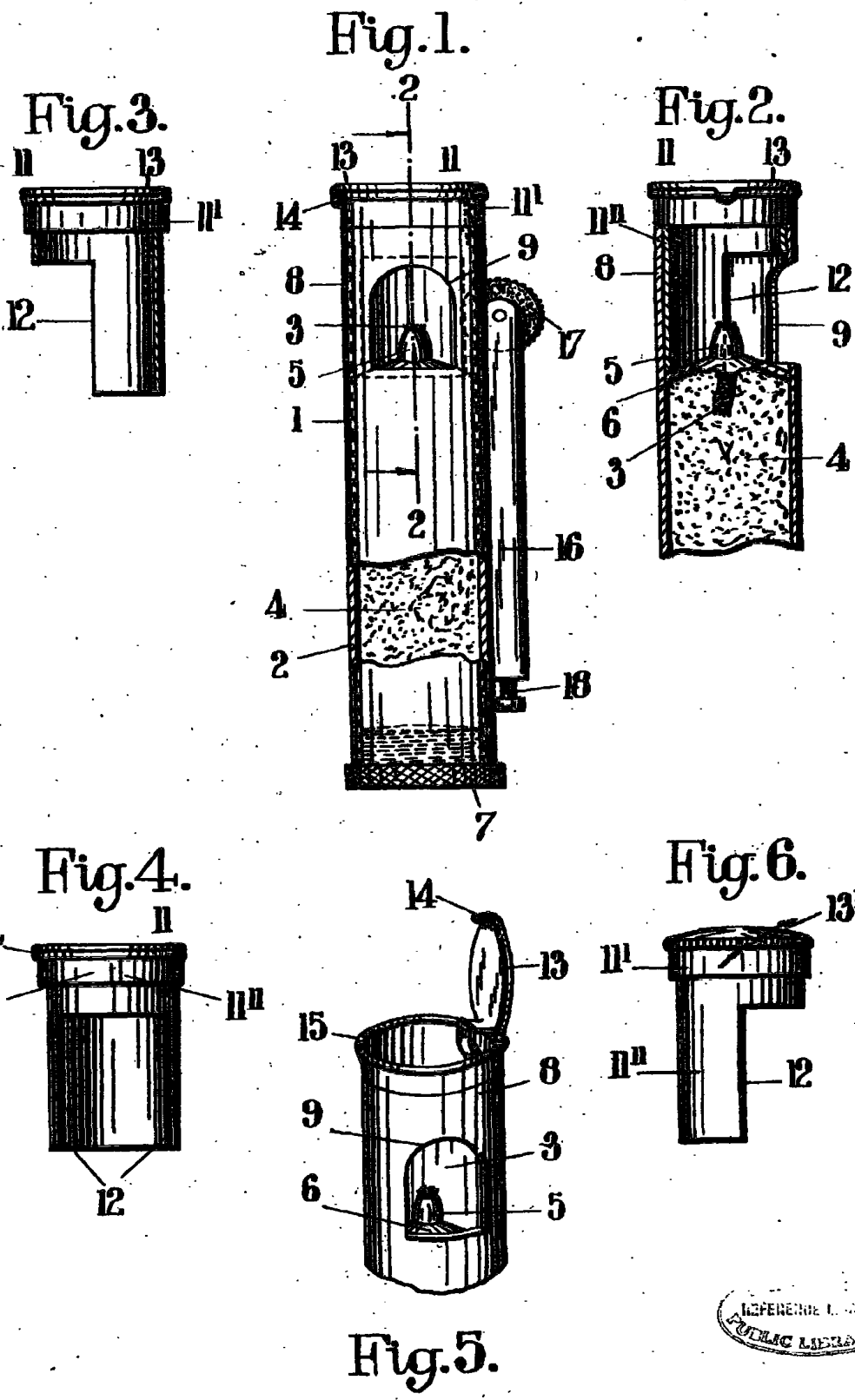
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For R. C. H. CORFE,

A. E. White, A.I.Mech.E.,

Fellow of the Chartered Institute of Patent Agents,
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[This Drawing is a full-size reproduction of the Original.]



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