

PATENT SPECIFICATION



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274,903

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COMPLETE SPECIFICATION.

Improvements in or relating to Pyrophoric Lighters.

I, WALTER VOSS, Merchant, a German citizen, of 34, Lutherstrasse, Berlin, W. 62, Germany, 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 pyrophoric igniters or lighters of the type in which spirit is employed as fuel.

With devices of this kind it has already been proposed to provide a wick torch or burner in a chamber independent from the container for combustible and to supply such combustible automatically to the wick torch or burner in fixed quantities or drops by manipulating the parts of the device.

It has also been proposed to construct a pyrophoric lighter having a wick or the like normally not fed with inflammable material but lying in the range of the sparks and a reservoir containing fuel so arranged that it can be moved for the purpose of placing a drop of fuel on the wick or the like.

A pyrophoric lighter of the foregoing type, according to the present invention comprises a fuel container, a wick torch chamber extending into but separate from the said fuel container, a wick torch located within the said chamber and adapted to be removed therefrom for use, a pyrophoric frictional element and means for delivering drops of the fuel in such a manner that the said drops of fuel may either be applied to the wick torch, or used for removing stains.

The accompanying drawing illustrates, by way of example, one constructional embodiment of a pocket lighter according to the invention.

Fig. 1 is a front elevation.

Fig. 2 is a longitudinal section, on the line II—II, Fig. 4, which, in association with Fig. 3 illustrates the dropping closure in the open and closed positions respectively.

1 is the fuel container which may be cylindrical as shown or of other suitable cross section, for instance elliptical.

11 is a wick torch chamber extending upwards from the bottom of the con-

[Price 1/-]

tainer 1 through the space for the fuel.

The chamber 11 entirely shuts off the contained wick torch 12, 13 from the contents of the receptacle or container 1.

The moistening of the wick torch 12, 13 after removal from the chamber 11 for lighting purposes is effected by a drop delivery closure of any description. In the example shown 10 is a metal stopper furnished with a cap 2 having a tube 3 integral therewith. This tube has a closed end 4, provided with a perforation 8, and 6 is a rotatable cap or cover mounted at the top of the device, and having pegs or projections 7, engaging in a circumferential groove (see Figs. 2 and 3).

Between the closed end 4 and the cap or cover 6 is inserted an elastic intermediate member 5 in a recess in the end 4 and provided with an opening, which is in constant register with the perforation 8 in the part 4 and can be brought into and out of register with the outlet opening 9 of the cap or cover 6 by rotation of the latter, as will be seen from Figs. 3 and 4.

The pyrophoric frictional surface 14 of the lighter is located in or upon the outer wall of the container 1.

In the closing position of the cover 6, Fig. 3, the contents of the container 1 are entirely closed from the outside, so that escape of the fuel is impossible. If however the closure is opened by rotation of the cover, see Figs. 2 and 4, and again closed, then the fuel which comes out in drops can be used to moisten the wick of the torch for the use of the lighter, or may be used for cleaning stains.

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:—

1. A pyrophoric lighter of the type set forth comprising a fuel container, a wick torch chamber extending into but separate from the said fuel container, a wick torch located within the said chamber and adapted to be removed therefrom for use, a pyrophoric frictional element

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and means for delivering drops of the fuel in such a manner that they may either be applied to the wick torch, for ignition purposes, or utilised for cleaning purposes.

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2. A pyrophoric lighter according to Claim 1 in which the means for delivering the fuel in drops comprises a stopper for the fuel container having a passage way therethrough, a rotatable cap or cover for said stopper having an outlet opening that is adapted to be brought into and out of register with an opening in an intermediate member that communicates with the passage way in the said stopper substantially as and for the purposes set forth.

3. A pyrophoric lighter as claimed in Claim 1 or Claim 2 wherein the pyrophoric frictional element is located in or upon the outer wall of the fuel container substantially as set forth. 20

4. A pyrophoric lighter constructed, arranged and operating substantially as herein described and shown on the accompanying drawing for the purposes set forth. 25

Dated this 23rd day of July, 1927.

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[This Drawing is a full-size reproduction of the Original]

Fig. 1.

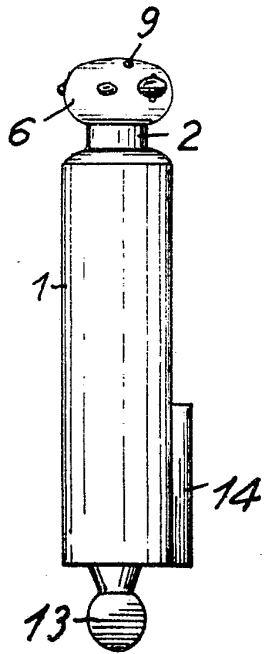


Fig. 2.

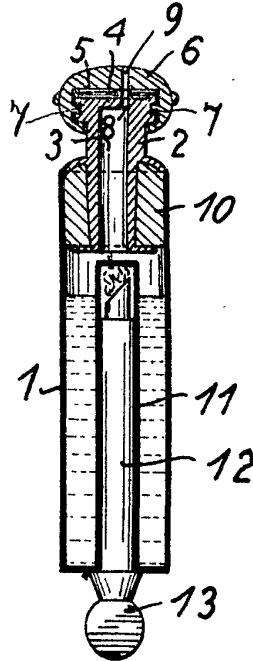


Fig. 3.

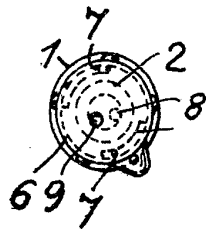


Fig. 4.

