

PATENT SPECIFICATION

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COMPLETE SPECIFICATION.



Improvements in and relating to Pyrophoric Lighters.

I, VILMOS KRETS, an Hungarian Subject, of Andrássy ut 68, Budapest VI, Hungary, 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 lighters and has for its object to provide a lighter particularly adapted for use with tobacco pipes.

The invention relates more particularly to pyrophoric lighters of the type in which the wick holder is adapted to be moved, after ignition, relative to the body of said lighter so that the flame is positioned away from the external fittings on the top of the lighter and may be introduced into a pipe bowl, for example, without obstruction from the fittings of the lighter. This arrangement gives a greater range of usefulness to the lighter, and ease of manipulation, particularly when used to light a tobacco pipe.

According to the present invention the wick holder is adapted to be moved relative to the body of the lighter by gravity when the lighter is suitably tilted.

In one suitable construction the lighter comprises a case containing the fuel, a projecting wick holding tube, a flint holder and a friction wheel being mounted on the top of the case. The wick holding tube is slidably mounted in an orifice in the casing top so that after ignition if the lighter is tilted the tube under the action of gravity will project beyond the external fittings on the case. It can then be used like a lighted match.

Suitable means are provided for ensuring that the wick obtains sufficient fuel when projected and for limiting the projecting movement of the wick-holding tube.

To enable the invention to be fully understood, it will now be described by reference to the accompanying drawing in which:—

Fig. 1 is a sectional elevation of a lighter constructed according to one form of the invention;

Fig. 2 is a view similar to Fig. 1 but shewing the wick holding tube in the projected position.

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Fig. 3 is a section along the line 3—3 in Fig. 1.

Fig. 4 is a view similar to Fig. 1 showing a modified form of construction.

Fig. 5 is a view similar to Fig. 4 showing the wick holder in the projected position, and

Fig. 6 is a section along the line 6—6 in Fig. 5.

Referring to Figs. 1—3. The body of the lighter forms the fuel container as usual but is divided into two communicating compartments by a partition 2. The wick 4 is carried in a tube 5 which is slidably mounted in an orifice 7 in the top of the casing and extends down into the space 8 which is clear of the fuel retaining substance 9 except for a certain amount at the bottom thereof. The tube 5 is enlarged at 10 to enable the wick to be coiled therein to ensure good contact with the fuel 9 the enlargement also acting as a guide and as a limiting stop. With this arrangement, after igniting the wick in the usual way, if the lighter is tilted as shewn in Fig. 2, the tube 5 will be projected by gravity so that the lighted wick is clear of the external fittings on the case. In this case the lighter has the usual wick cover 11 which can be turned through 90° to expose the wick.

In the modification shown in Figs. 4—6 the invention is applied to a lighter having a wick cover 12 which can only be turned through an angle of less than 90° and this would prevent the tube 5 from sliding out of the lighter body if it was arranged as shewn in Figs. 1—3.

To overcome this difficulty the tube 5 is pivoted at 13 to one side of a separate tubular portion 14 of larger diameter in which the wick is coiled and the orifice 7 through which the tube 5 passes is of inverted conical cross section as shewn. The centres of the orifice 7 and the pivot 13 are offset.

The fuel container is not divided by a partition but the wick holder is guided by the flint tube 15 which passes through the body of the lighter.

With this arrangement, if the lighter is tilted after igniting the wick the tube 5 is projected and the pivot 13 allows the

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tube to take up an angular position clear of the cover 12 as shewn in Fig. 4.

The wick holder in both forms of the invention shewn is constructed to house a substantial coil of wick which holds sufficient fuel for each operation of the lighter. If desired the end of the wick may project beyond the holder and thereby remain in constant contact with the fuel retaining substance 9.

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. In a pyrophoric lighter the provision of a wick holder which is adapted to be moved relative to the lighter body by gravity when the lighter is suitably tilted.

2. A pyrophoric lighter according to claim 1 wherein the wick holder comprises a tube slidably mounted in the fuel container and suitably guided so that when the lighter is tilted the tube is projected through an orifice in the body of the lighter.

3. A pyrophoric lighter according to claim 2 wherein the fuel container of the lighter is divided by a partition into two communicating compartments in one of which the wick holder is slidably mounted, the partition acting as a guide for the holder.

4. A pyrophoric lighter according to claim 2 wherein the wick tube is pivotally attached to a part of the holder within the lighter casing and is slidably mounted in an orifice of inverted conical section formed in the body of the lighter.

5. A pyrophoric lighter according to claim 4 wherein the centre of the orifice and the pivot point of the wick tube are offset for the purpose described.

6. Pyrophoric lighters constructed arranged and operating substantially as hereinbefore described with reference to the accompanying drawings.

Dated this 17th day of May, 1934.

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Agents for the Applicant.

[This Drawing is a reproduction of the Original on a reduced scale.]

