

PATENT SPECIFICATION



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COMPLETE SPECIFICATION.

Improvements in Pocket Lighters.

We, Dr. H. KELLERMANN, G.M.B.H., a Company organised under the Laws of the Republic of Germany, of 6—8, Ruschestr., Lichtenberg, formerly of 5, Hauptstrasse, Rummelsberg, Berlin, 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:—

The object of the invention is to provide in a pocket lighter comprising a wick saturated with liquid fuel, an arrangement which renders it possible to readjust the wick readily when the projecting end thereof is charred. So far this has presented considerable difficulty in lighters of this type.

In accordance with the present invention the arrangement provided is of such a nature, that the end of the wick held in a narrow aperture or opening is made to pass through a sleeve which loosely surrounds the end of the wick and is disposed above said narrow aperture or opening, in such a manner that the end of the wick can only char down to the point of entrance in the sleeve loosely surrounding it. After removing this sleeve, a piece of the wick will, as a necessary consequence, still project a certain distance beyond the narrow aperture or opening, with the result that it will easily be possible now to seize the wick at the projecting end and to pull it out a little further, whereupon the sleeve loosely surrounding it is placed in position again, it being easy to pass the pulled out wick-end through the sleeve again. It is of importance herein that the wick is surrounded loosely by said sleeve whereas it is held fast and secured in the more narrow bore below said sleeve, thus at the same time forming a tight closing means for the interior of the fuel-chamber.

In the drawing two forms of execution of the invention have been represented by way of example.

Figure 1 shows the lateral view of a pocket-lighter in accordance with the invention, the cover being opened.

Figure 2 shows a section through the wick or burner-tube and sleeve and the

neighbouring part of the cover-plate of the fuel chamber for a pocket-lighter in accordance with Figure 1 on a larger scale.

Figure 3 a corresponding sectional view of a modified form of execution of the wick-holder; and

Figure 4 the form of execution in accordance with Figure 3 with the wick-sleeve removed.

The shape and construction of the lighter in general is of no importance here and does not form a part of the present invention. The wick-tube *c* (Fig. 2) provided in the cover-plate *b* of the fuel container *a* is provided with a small bore *e* in which the wick *i* is a tight fit rendering the container leak-proof. The end of the tube *c* projecting above the cover-plate *b* has been threaded outside, receiving thereon the sleeve *d*, said sleeve being provided for the purpose of facilitating manipulation with a milled rim *h*. The sleeve *d* possesses throughout i.e. also at the upper end, at *g*, an inside width which exceeds the bore *e* of the tube *c*, with the result that the sleeve *d* loosely surrounds the wick *i*. The canal or bore *f* of the sleeve *d* is enlarged funnel-shape, the more narrow end being at the orifice *g*.

When the end of the wick *i* projecting from the sleeve *d* is charred, nothing will be required but to open the cover 13 and then to screw off the sleeve *d* and pull out the wick-end, projecting above the upper edge of the wick-tube *c* (Fig. 2) a little further to an extent approximately as indicated by *k*. Owing to the width of the canal *f* the sleeve *d* may then be easily slid over the pulled out end of the wick and screwed on again.

The form of execution in accordance with Figs. 3 and 4 differs from that just described essentially thereby that in this case the sleeve *m* provided with a milled edge or rim *o* is not screwed upon a wick-tube, but screwed into a recess *l* of the cover-plate *b*¹ of the fuel container by means of an external thread *n*. This renders it possible to reduce the distance between the upper edge of the sleeve *m* and the upper surface of the cover-plate *b*¹. The bore of the cover-plate *b*¹ for the

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- passage of the wick i within the recess l is so narrow, that the wick only just passes through it tightly, whilst the canal f^1 of the sleeve m in this modification also only loosely surrounds the wick-end up to the upper orifice g^1 . On the bottom of the recess l a washer p has been placed. The canal f^1 of the sleeve m is likewise enlarged inwardly in funnel-fashion.
- 10 Having now particularly described and ascertained the nature of our said invention, and in what manner the same is to be performed, we declare that what we claim is:—
- 15 1. A pocket lighter with wick, characterised by the wick-end being surrounded loosely by a removable sleeve in such a manner, that the wick-end may easily be pulled out to re-adjust it after the removal of the sleeve. 20
2. A pocket lighter according to Claim 1, characterised by the fact, that the channel or bore of the sleeve is wider at its inner end than at its outer end and gradually decreases in width from the inner end to the outer end. 25
3. A pocket lighter according to Claim 1, characterised by the fact that the bore of the sleeve has a greater diameter even in its most narrow point than the opening for the wick in the wall of the fuel chamber, or than that of the wick-tube, which openings shall be as small as possible. 30
- Dated this 6th day of February, 1929.
BARKER, BRETTELL & DUNCAN.

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

