

PATENT SPECIFICATION

568,848



Application Date: April 20, 1944. No. 7359/44.

(Patent of Addition to No. 566,560, dated Sept. 9, 1943.)

Complete Specification Accepted: April 23, 1945.

COMPLETE SPECIFICATION

Pocket Lighter

We, JOHN LEMON BURTON AND ALWIN EDGAR PERKINS, both of 55, Netherwood Street, Kilburn, London, N.W.6, and both British subjects, 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 pocket lighters of the known type in which a wick is ignited by sparks produced by the rotation of a friction wheel, the peripheral surface of which contacts with a spring urged pyrophoric material, the lighter comprising a container adapted to hold cotton wool impregnated with petrol or other fuel to be supplied to the wick.

The invention has for its object to provide improvements in, or modifications of, the construction of lighter claimed in the specification of our application for Patent No. 14801 of September 9th 1943 (Serial No. 566,560), and with this object according thereto the pocket lighter is improved or modified by the attachment to the spring-controlled plunger of a tubular slider by which the friction wheel and wick are normally concealed but are exposed to afford access to the ignited wick when the plunger is operated to rotate the friction wheel. Moreover, the tubular slider carries a wick cap which extinguishes the ignited wick on return of the plunger to its normal position.

The nature of the improvements will be more readily understood by reference to the accompanying drawing in which similar reference characters relate to like parts in all the Figures, and in which:

Figure 1 is a sectional elevation of the upper part of the lighter,

Figure 2 a plan view thereof,

Figure 3 a cross-section on the line A-B Figure 2, and

Figure 4 a cross-section on the line C-D Figure 1.

As is the case in the drawings forming part of the specification of our Application for Patent No. 14801/43 previously referred to, in the accompanying drawings *a* represents the container and *b* the horizontal tube mounted on the top of the container and housing the tubular

plunger *c*, with the thumb piece *e*, and the operating spindle *d*. A tubular slider *f* mounted to slide on the tube *b* is secured to the plunger *c* by the spring wire keeper *g* the arms of which pass through slots *h* in the wall of the slider *f* to engage a circumferential groove on the peripheral surface of the plunger *c*.

The wall of the slider *f* is slotted as shown at *i* and the plate *h* at its inner end carries a wick cap *n* adapted to engage over the wick carried in the wick tube *w* which is supported by the bracket *o* on the upper surface of the container.

Normally the parts are in the position shown in the drawings in which the friction wheel *m* and the wick tube *w* are concealed by the slider *f*. When it is desired to produce sparks for the ignition of the wick in the wick tube *w* the plunger *c* is pressed inwardly against the action of its controlling spring by the pressure of the thumb of the user on the thumb piece *e*, whereby as described in the specification of our Application No. 14801/43 (Serial No. 566,560), the friction wheel *m* will be rotated and the rotation of the wheel *m* in rubbing contact with the flint—not shown in the drawings—produces sparks in the usual manner for ignition of the wick, the friction wheel *m* and wick tube *w* being exposed through the slot *i* in the inward position of the slider. When the plunger *c* is returned by the action of its spring the ignited wick is extinguished by the wick cap *n*.

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:

1. A pocket lighter as claimed in the specification of our Application No. 14801/43 (Serial No. 566,560) improved or modified by the attachment to the spring-controlled plunger of a tubular slider by which the friction wheel and wick are normally concealed and are exposed to afford access to the ignited wick when the plunger is operated to rotate the friction wheel.

2. A pocket lighter as claimed in claim 1 in which the tubular slider carries a

[Price 1/-] Price 4s 6d

wick cap which extinguishes the ignited wick on return of the plunger to its normal position.

Dated this 20th day of April, 1944.

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FIG. 1.

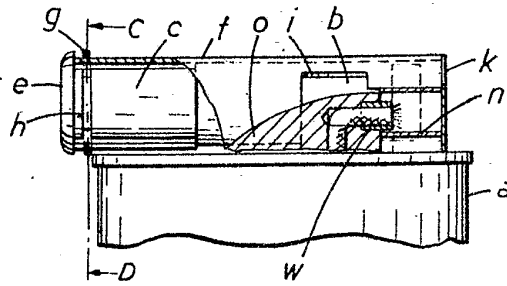


FIG. 2.

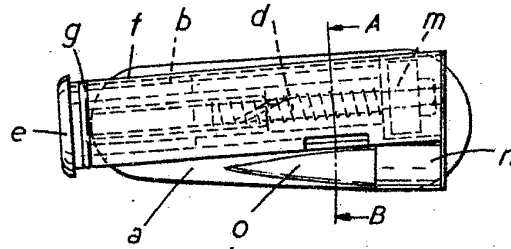


FIG. 3.

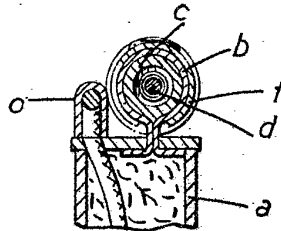
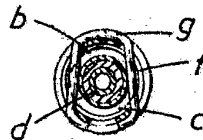


FIG. 4.



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