

AMENDED SPECIFICATION,

PATENT SPECIFICATION

563,021

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COMPLETE SPECIFICATION

Improved Petrol Lighter

I, SIDNEY ERNEST ABBOTT, a British Subject, of 1710, Coventry Road, South Yardley, Birmingham, in the County of Warwick, 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 an improved lighter of the kind including a hollow body adapted to receive an inflammable liquid such as petrol, a wick tube containing a wick projecting into the body, a pivoted extinguisher cap adapted to engage over the exposed end of the wick, a flint tube for carrying a spring-advanced flint, and a friction wheel mounted on the pivot of the cap and so disposed that its periphery engages the end of the flint, so that when the wheel is turned, sparks from the flint are projected to the space immediately adjacent the end of the wick, and wherein a portion of the periphery of the friction wheel projects through an opening in the cap so that the action of rotating the wheel by finger pressure also moves the cap into the released position.

According to the present invention a spring is provided acting upon the extinguisher cap, the spring being adapted to engage either of two faces so as to retain the cap either in its fully open or fully closed position.

The spring may be attached to the cap and may engage with the end portions of the flint tube where it is forked to provide a support for the pivot.

Alternatively the spring may be attached to the body and may engage alternatively with the underside and end of the cap.

The invention is illustrated in the accompanying drawings, wherein:—

Figure 1 is a view in side elevation.

Figure 2 is a view in side elevation showing the extinguisher cap in cross section.

Figure 3 is a view in side elevation showing all the parts in section, with the exception of the friction wheel.

Figure 4 is a view in side elevation showing the cap in its open position,

[Price 1/-]

Figure 5 is a sectional end view.

Figure 6 is a view in side elevation showing a modification.

In the construction illustrated, the body adapted to contain petrol or the like is provided with a wick 11, the end of which engages in a wick tube 12 secured to the top of the body.

The end 13 of the wick tube 12 is of conical form and is engaged by the conical surface of a piece of tube 14 rivetted at 15 to a cap 16. This cap is made of sheet metal and is of channel section, and its sides are pivoted on the ends of a pin 17.

The body is further provided with a flint tube 19 containing a spring 20 which acts upon the flint 21 and presses it against the toothed periphery of a friction wheel 22 in the usual way.

The friction wheel is mounted upon the centre part of the pin 17 between the limbs 18 of the projecting end of the flint tube which is forked and forms a support for the pin.

The cap 16 is slotted as shown at 23 at the top, and the part of the periphery of the friction wheel protrudes through the slot.

Further, the two sides of the cap 16 are connected by a pin or portion 24, and the arrangement is such that the friction wheel 22 and the cap 16 can be turned simultaneously on the pin 17 by engaging the protruding part of the periphery of the friction wheel and the bridge-like part 24 at the same time by the finger or thumb. When this is done, the cap is released from the end of the wick tube and raised into the position shown in Figure 4, and simultaneously the friction wheel is revolved and produces a series of sparks which ignite the petrol vapour at the end of the wick.

A wire or other spring 25 is provided, one end of which is held between the end of the tube 14 and the underside of the cap 16, and the spring has two arms which bear, in the one position, upon the end surfaces of the limbs 18 formed by the end of the flint tube and serve to keep the cap in the closed position.

When the cap has been moved to the

position shown in Figure 4, the two arms of the spring engage the side edges of the limbs 18 and retain the cap in the open position.

- 5 In the construction shown in Figure 6, instead of applying the spring 25 to operate between the cap and the limbs 18, the spring 26 has one end 27 secured to the body and has its free end operating
10 upon the underside of the cap. When the cap is moved to the open position, the spring engages the end of the cap to retain it in the open position.

15 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:—

- 20 1. A lighter of the kind specified, wherein a spring is provided acting on the extinguisher cap to retain it either in its open or closed position.

2. A lighter according to claim 1 wherein the spring is attached to the cap and engages with the forked end portion of the wick tube.

3. A lighter according to claim 1 wherein the spring is attached to the body and engages with the underside and end of the cap.

4. A lighter according to claim 1 substantially as described and shown in Figures 1 to 5 of the accompanying drawings.

5. A lighter according to claim 1 substantially as described and shown in Figure 6 of the accompanying drawings.

Dated the 26th day of January, 1944.

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PATENTS AND DESIGNS ACTS, 1907 TO 1942
SPECIFICATION NO. 563,021

In pursuance of Section 8, sub-section (2), of the Patents and Designs Acts, 1907 to 1942, the specification has been amended in the following manner:—

Page 1, line 30, and page 2, line 20, after "provided" insert "mounted on a part other than the flint tube and"

The Patent Office
6th March, 1945.



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

