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POCKET LIGHTER HEAD ASSEMBLY

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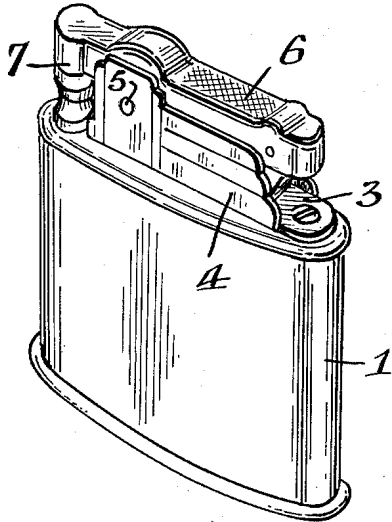


Fig. 1

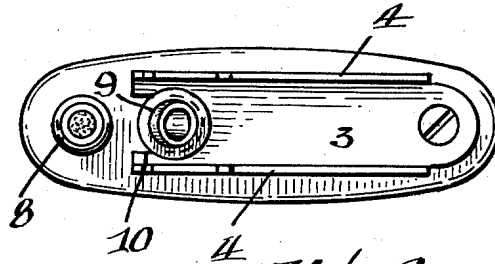


Fig. 2

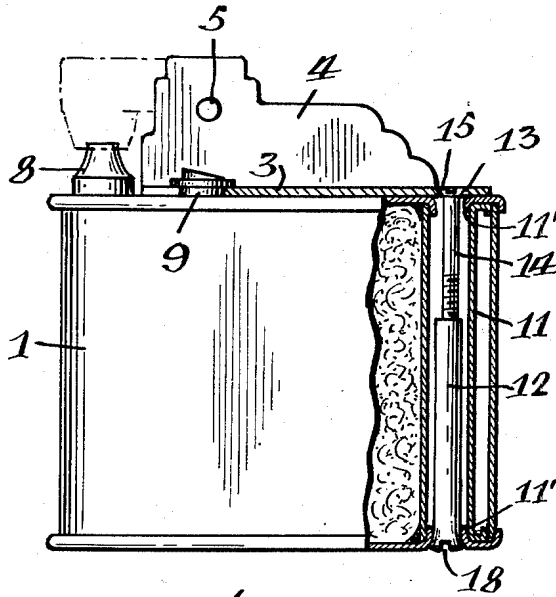


Fig. 3

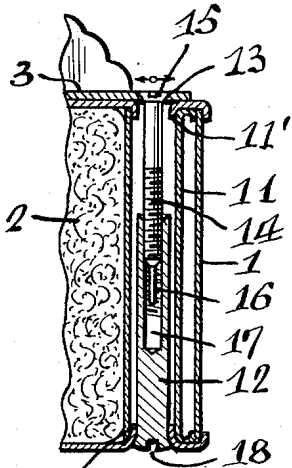


Fig. 4

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POCKET LIGHTER HEAD ASSEMBLY

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4 Claims. (Cl. 67-7.1)

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The present invention pertains to a novel pocket lighter and particularly to the head assembly thereof.

The head assembly is ordinarily carried by a removable top plate which has one end fastened to the top of the lighter body by a set screw. The head assembly carries an operating lever formed with a cap that covers the wick tube in the top of the body. Often the screw holes are not accurately positioned, and consequently the cap does not fit accurately on the wick tube, resulting not only in loss of liquid fuel but also in the unpleasant odor of it in the clothing.

The principal object of this invention is to provide a more accurate assembly of the top plate on the body and without tedious or costly operations. This object is accomplished generally by dispensing with the screw hole in the body and employing instead a tube extending from bottom to top of the body. In the lower end of the tube is inserted an elongated nut having lateral play in the tube. The top plate carries a suspended long screw also having play in the tube and adapted to screw into the nut. Thus, the nut and screw can be adjusted laterally until the cap on the operating lever fits the wick tube accurately, and the screw then tightened in the nut.

Ordinarily a special tool is required to remove the screw for dismantling, since it is covered by the lever. In the present case, however, the lower end of the nut has a screw driver slot, and thus no special tool is necessary.

The invention is fully disclosed by way of example in the following description and in the accompanying drawings in which:

- Figure 1 is a perspective view of the device;
- Figure 2 is a plan view;
- Figure 3 is a side elevation, and
- Figure 4 is a partial section.

Reference to these views will now be made by use of like characters which are employed to designate corresponding parts throughout.

In the several views is shown the usual body 1 of a pocket lighter. The body is hollow and contains an absorbent material 2 for liquid fuel, as shown in Figure 2 and known in the art.

The top assembly is carried on a plate 3 having sides or wings 4. Between the sides is pivotally mounted at 5 the operating lever 6 which operates the usual striking wheel not shown but well known in the art. One end of the lever carries a cap 7 for covering the wick tube 8 mounted in the top of the body 1.

A shouldered stud 9 is fitted in the top of the

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body, and the forward end of the plate 3 is concave at 10 to straddle the stud beneath its shoulder. Ordinarily the rear end of the plate and the top are apertured, and the parts held together by a set screw. However, it frequently happens that the two apertures are not accurately located. As a result, since the plate carries the lever 6, the cap 7 does not fit properly on the wick tube 8, and there is leakage of fuel into the clothing, with obvious waste and inconvenience. Otherwise, if the apertures are to be located accurately, a time-consuming and expensive operation at the factory is required.

These difficulties are overcome in the present invention by mounting a tube 11 through the body 1 from top to bottom and at the position where the top plate is usually fastened, as shown in Figure 4. The top and bottom of the body are peened at 11' into the tube. Into the lower end of the tube is inserted an elongated nut 12 spaced from the wall of the tube because of the peening, as shown.

The rear end of the plate 3 has an aperture 13 through which is passed a long screw 14 having a head 15 seated in the aperture 13. The lower end of the screw has an extended pin 16 for guiding it into the tapped recess 17 of the nut, and the screw itself is threaded into the cavity.

The shank of the screw is loose in the tube 11 and therefore has lateral play therein, as indicated by the arrow in Figure 4. Likewise the nut 12 has play in the tube, as the lower peening 11' permits some swivelling. In assembling the top structure upon the body 1, the plate 3 is first set so that the cap 7 accurately fits on the tube 8. The screw 14 is then screwed into the tube 12 and the proper adjustment is thereby maintained.

Ordinarily the top assembly is removed by turning the top screw. Since the latter is covered by the rear end of the lever 6, a special tool is required. In the invention, no such special tool is needed, since the lower end of the nut 12 has a screwdriver slot 18 that can be engaged by a screwdriver while the screw head 15 is held against turning.

Although a specific embodiment of the invention has been illustrated and described, it will be understood that various alterations in the details of construction may be made without departing from the scope of the invention as indicated by the appended claims.

What I claim is:

- 1. A pocket lighter comprising a body, a separable top plate thereon, a wick tube in the

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top of said body, an operating lever carried by said top plate, a cap for said tube carried by one end of said lever, another tube extending from top to bottom of said body substantially below the other end of said lever, an elongated nut inserted in the second tube from the bottom thereof and having play in said tube, a screw carried by said plate and receivable in said nut and loosely in said tube, and a pin extending from the free end of said screw for guiding the screw into said nut.

2. A pocket lighter comprising a body, a shouldered stud in the top thereof, a separable top plate concave at one end to straddle said stud, a wick tube in the top of said body, an operating lever carried by said top plate, a cap for said tube carried by one end of said lever, another tube extending from top to bottom of said body substantially below the other end of said lever, an elongated nut inserted in the second tube from the bottom thereof and having play in said tube, and a screw carried by said plate and receivable in said nut and loosely in said tube.

3. A pocket lighter comprising a body, a shouldered stud in the top thereof, a separable top plate concave at one end to straddle said stud, a wick tube in the top of said body, an operating lever carried by said top plate, a cap for said tube carried by one end of said lever, another tube extending from top to bottom of said body substantially below the other end of said lever, an elongated nut inserted in the second

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tube from the bottom thereof and having play in said tube, a screw carried by said plate and receivable in said nut and loosely in said tube, and a pin extending from the free end of said screw for guiding the screw into said nut.

4. A pocket lighter comprising a body, a separable top plate thereon, a wick tube in the top of said body, an operating lever carried by said top plate, a cap for said tube carried by one end of said lever, another tube extending from top to bottom of said body substantially below the other end of said lever, an elongated nut inserted in the second tube from the bottom thereof and having play in said tube, a screw carried by said plate and receivable in said nut and loosely in said tube, and a pin extending from the free end of said screw for guiding the screw into said nut, the upper end of said screw being substantially covered by said lever, and the lower end of said nut having an exposed screw-driver slot.

CHARLES AIMÉ FORTIN.

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