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H. LEE

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CIGAR AND CIGARETTE LIGHTER

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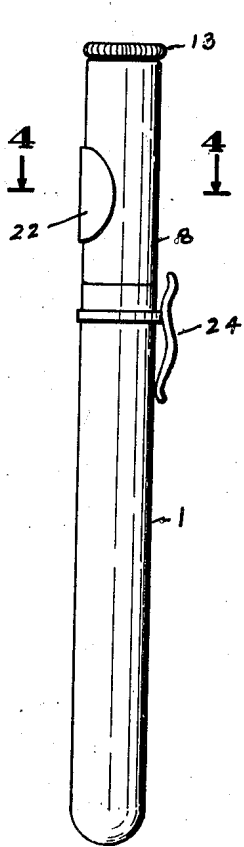


Fig 1

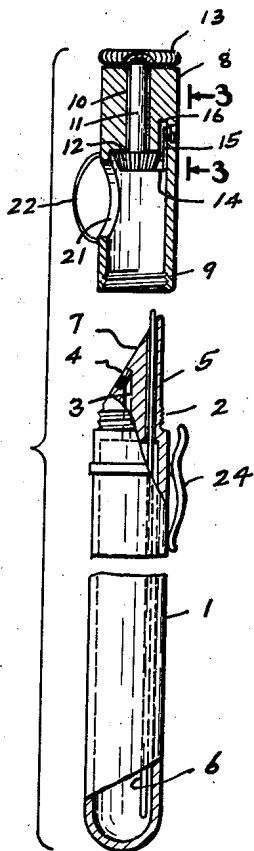


Fig 2

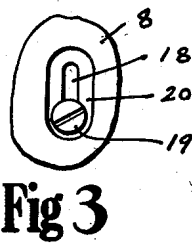


Fig 3

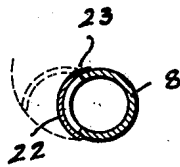


Fig 4

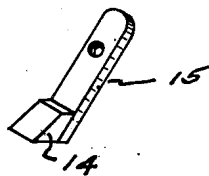


Fig 5

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CIGAR AND CIGARETTE LIGHTER

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1 Claim. (Cl. 67-7.1)

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This invention relates to a cigar and cigarette lighter.

An object of the invention is to provide a lighter of the character described which is constructed of such shape and dimensions as to be conveniently carried in the pocket of the user.

It is another object of the invention to provide a lighter of the character described which is of a very compact shape but which has ample liquid fuel capacity with conveniently arranged lighting equipment whereby the wick may be readily ignited with novel means for enclosing and protecting the lighting equipment.

Other objects and advantages will be apparent from the following specification which is illustrated by the accompanying drawings wherein:

Figure 1 is a side elevation of the lighter.

Figure 2 is a side view partly in section.

Figure 3 is an enlarged fragmentary side elevation, as shown on the line 3-3 of Figure 2.

Figure 4 is a cross sectional view taken on the line 4-4 of Figure 1, and

Figure 5 is a perspective view of the friction stone and mounting therefor.

Referring now more particularly to the drawings, wherein like numerals of reference designate the same parts in each of the figures the numeral 1 designates a hollow, cylindrical, liquid fuel container which serves also as a grip member for holding the lighter in use.

One end of the container may be reduced in diameter and externally threaded, as at 2, and formed substantially solid, having only a filling inlet duct 3 which is closed by the plug 4, screwed therein, said end of the container also having a passageway 5 therethrough for receiving the wick 6 which extends down into the liquid fuel within the container 1 and whose other end is free.

The free end of the solid portion of the container is formed with the diagonal face 7 into which the plug 4 is threaded.

The numeral 8 designates a cap which is cylindrical in shape and which is of approximately the same diameter as that of the container 1.

This cap has the internal threads 9 to be screwed onto the threads 2 to secure the parts together.

The outer end of the cap 8 is formed solid and is provided with an axial bearing 10 to receive the shaft 11.

On the inner end of the shaft, within the cap, there is a bevelled friction wheel 12 and screwed onto the other end of the shaft there is a disc

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13, by means of which the shaft and friction wheel may be turned.

The numeral 14 designates a friction stone which is provided with an extended shank 15 which projects up into an elongated recess 16 provided, in the cap, to receive it.

The cap is provided with a longitudinal slot 18 and a screw 19 extends through said slot and is threaded into the shank 15 and its outer end has an enlarged head which fits into an external countersunk portion 20 in the cap 8, whereby the shank 15 and the stone 14 may be clamped into position so that the bevelled friction wheel 12 may contact the friction stone 14 so that when the friction wheel is turned sparks will be generated to light the wick 6.

The screw 19 may be loosened to adjust the friction stone to take up for wear and then again tightened to hold the friction stone securely in place.

The end of the container 1 which is screwed into the cap is formed with a diagonal face as hereinabove explained so as to provide a compartment within the cap 8 in which the friction wheel 12 operates and in which the wick is located.

This compartment has a side opening 21, for access, which is normally closed by the arcuate shutter 22. This shutter is hinged, at one side, to the cap 8, by means of the hinge 23. This is a spring hinge of conventional construction which will hold the shutter in either open or closed position.

In use the shutter 22 may be opened and the friction wheel 12 turned to generate sparks which will light the wick in the usual way and the cigar or cigarette may be inserted through the recess 21 for lighting purposes. When the shutter is closed the flame will be extinguished.

This lighter is equipped with a flexible clip 24 whereby the lighter may be retained in the pocket of the user, against loss, in an obvious manner.

The container 1 and cap 8 are shown as being screwed together; or they may be fitted together with a slip joint connection. However they may be joined integrally together as a unit, if desired.

The lighter may be made of metal, plastic or any other suitable material, or combinations of materials.

The drawings and description are illustrative merely while the broad principle of the invention will be defined by the appended claim.

What I claim is:

A cigar and cigarette lighter comprising, a hollow cylindrical liquid fuel container having a wick therein with an exposed end, a cylindrical shaped

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housing fitted over one end of the container and enclosing the exposed end of the wick, said housing having an elongated slot, a side opening opposite the slot and an axial bearing, a shaft rotatable in said bearing, a beveled friction wheel fixed to the inner end of the shaft and a disc fixed to the outer end of the shaft whereby the shaft may be turned, a friction stone in the housing positioned adjacent the exposed end of the wick and in contact with the friction wheel, an extended shank on one end of which the friction stone is fixed, a screw extended through said slot whose inner end is threaded into said shank and whose outer end is provided with an enlarged head, said housing having an external countersunk portion about the slot in which said head is located, said screw being releasable to permit adjustment of the screw, shank and friction stone with relation to the friction wheel and said screw and enlarged head forming clamp means for clamping the shank and friction stone at a selected place of adjustment, the end of the container, enclosed by said housing being beveled opposite

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said opening thus providing space within the housing in which the friction wheel operates, said container having a filling inlet duct leading inwardly from said beveled face for filling purposes, a removable plug for closing said duct and a shutter for closing said opening.

HOARD LEE.

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