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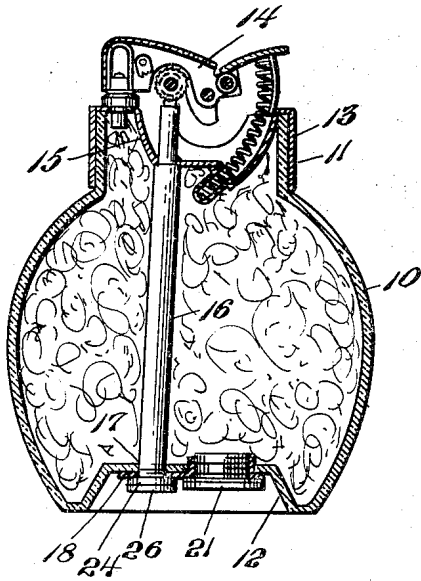
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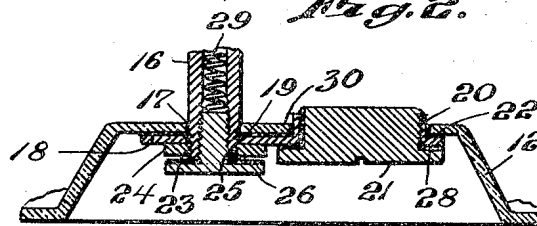
CERAMIC BODY CIGARETTE LIGHTER

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*Fig. 1.*



*Fig. 2.*



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**CERAMIC BODY CIGARETTE LIGHTER**

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3 Claims. (Cl. 67-4.1)

This invention relates to a cigarette lighter and more particularly to a table cigarette lighter having a ceramic body.

In order to perform the functions of a cigarette lighter, the ceramic chamber of the lighter must be liquid tight, capable of holding fluid, and adapted to expel the fluid in the regular manner.

It is therefore one of the objects of this invention to provide a ceramic cigarette lighter which will be of leak proof construction.

Another object of this invention is to provide a cigarette lighter having a ceramic body which may be readily assembled.

Another object of this invention is to provide a ceramic body cigarette lighter having parts attached by cement with the cemented parts strengthened by the addition of a metal strengthening member to avoid loosening of the metal parts from the ceramic base.

With these and other objects in view, the invention consists of certain novel features of construction as will be more fully described and particularly pointed out in the appended claims.

In the accompanying drawings:

Figure 1 is a sectional view of the ceramic body cigarette lighter; and

Figure 2 is a sectional view of the base of the cigarette lighter showing the manner in which the cerium tube is affixed to the base.

In proceeding with this invention, I provide a ceramic body having two holes in the bottom wall thereof and an open top neck portion. To the top neck portion of the body there is affixed a metal lighter unit having a pyrophoric igniter and wick and a cerium tube which extends through the ceramic body fitting into one of the holes in the bottom wall of the ceramic base. The ceramic body is packed with cotton and maizo in the usual manner to absorb the lighter fluid, which is inserted through a plug that covers the second hole in the bottom wall of the ceramic body. The base is additionally provided with a metallic plate having two holes to align with the holes in the bottom wall, one hole having an inturned threaded collar to hold the fuel plug and the other hole used for inserting the cerium pipe which is fastened by means of a nut to the metallic plate.

With reference to the drawings 10 designates the ceramic body having a neck portion 11 and base portion having a bottom wall 12. A metallic cup 13 shaped to conform to the contour of the neck of the ceramic body has a well 15 upon which is mounted lighter findings 14 consisting of the pyrophoric striker, wick bushing, wick snuffer, and thumb lever. A cerium tube 16 is soldered to the well 15 and extends through the interior of the ceramic body and through a hole 17 in the bottom wall 12 thereof. The base of the ceramic body is provided with a metallic plate 18 having a hole 19 adapted to align with hole 17 and a second hole 20 which has a flange extending into the second hole 30 of the bottom wall. This flange is threaded to hold the fuel plug 21. The bottom plate 18 is cemented to the base 12, the cement additionally serving to absorb any uneven formations between the plate 18 and the ceramic base 12. The cerium

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tube is threaded as at 23 to receive a nut 24 which urges and holds the plate against the base 12 and is further internally threaded as at 25 to receive the closure plug 26.

In constructing this cigarette lighter, I first form the ceramic body 10 and suitably decorate it. The neck portion 11 is primed with cement, and the inside area of the metallic cup 13 is also primed with cement and allowed to dry. The cerium tube 16 is soldered to the well 15 and another coating of cement is placed on both primed surfaces. The cup is then placed over the neck portion 11 and the cerium tube 16 inserted through a hole 17 in the base 12 of the ceramic body. One surface of metallic plate 18 and the outside portion of the ceramic base 12 are also primed with cement and allowed to dry. Cement is again applied to these parts and they are affixed together. The nut 24 along with a thin neoprene washer is then placed on the end portion of the cerium tube 16 and screwed on firmly. By doing this, the metallic cup 13 at the neck portion of the ceramic body and the metallic plate 18 are forced and held closer to the ceramic body and provide an integral unit held together by cement and mechanical means. When this unit has been dried and tested for leaks, the lighter mechanism 14 is assembled into the metallic well 15, and the wick, maizo, and cotton are inserted into the body of the ceramic base. The fuel plug 21 with its washer 23 is placed into position and the cerium spring 29 and closure plug 26 are placed into position. The resulting structure retains the advantages of cementing metal to ceramic with the added feature of a strengthening member consisting of the cerium tube being used to hold the cemented parts together.

Various modifications can obviously be made without departing from the spirit of my invention as pointed out in the appended claims.

I claim:

1. A cigarette lighter comprising a non-metallic fuel reservoir body having an open neck portion with a surrounding wall at the top and a bottom wall with a pair of holes therein at its base, lighter mechanism mounted upon an inverted cup, said cup embracing the surrounding wall of the neck portion and closing the top of said body, the cup and wall presenting large sealing surfaces, said mechanism carrying a cerium tube of a length sufficient to pass through one of said holes, a metallic plate affixed to the bottom of said body, said plate having one hole therein registering with the hole in said wall receiving said cerium tube therein, said plate having a second hole registering with the other hole in said wall and having a flange extending into the other hole to receive a fuel plug therein, and fastening means engaging said tube and plate external of said plate to secure the mechanism to said body.

2. A cigarette lighter as in claim 1 wherein one end of said cerium tube is soldered to the lighter mechanism and the other end is threaded and the fastening means comprises a nut co-operating with said threads.

3. A cigarette lighter as in claim 1 wherein the threaded end of said cerium tube is additionally internally threaded to receive a closure plug.

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