May 17, 1960 H. E. TALKINGTON 2,936,765

CIGARETTE EXTINGUISHER

Filed May 27, 1958

Fig.1

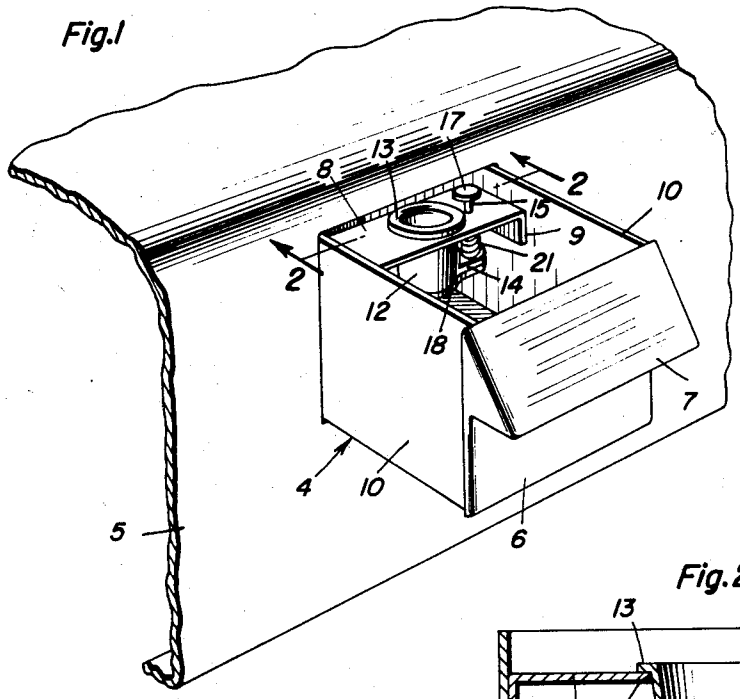


Fig.2

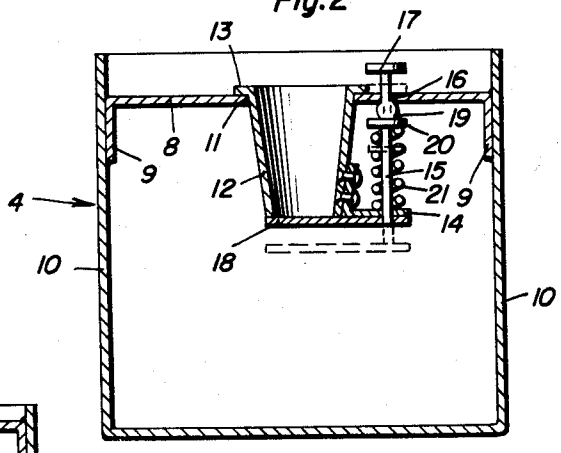
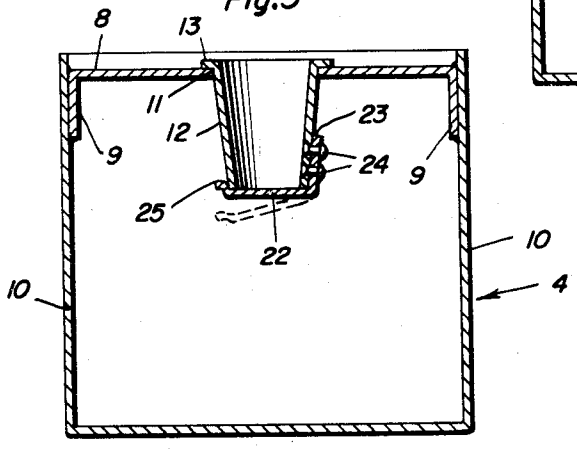


Fig.3



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CIGARETTE EXTINGUISHER

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4 Claims. (Cl. 131—235)

The present invention relates to new and useful improvements in cigarette extinguishers for use particularly but not necessarily in automobiles, trucks, airplanes, etc., and has for one of its important objects to provide, in a manner as hereinafter set forth, an extinguisher which is adapted to be mounted in the usual ash tray of the vehicle for use in conjunction therewith.

Another important object of the invention is to provide a cigarette extinguisher of the aforementioned character comprising means whereby any ashes, etc., accumulating therein may readily be deposited in the ash tray.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawing forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a perspective view, showing a cigarette extinguisher embodying the present invention mounted in an automobile ash tray;

Figure 2 is a view in transverse section, taken substantially along the line 2—2 of Figure 1; and

Figure 3 is a view in transverse section through a modification.

Referring now to the drawing in detail, it will be seen that reference character 4 designates an ash tray of the pull out type which is slidably mounted in the usual manner in the instrument panel 5 of a motor vehicle. The front 6 of the tray 4 is provided with a handle 7.

Mounted transversely in the upper portion of the tray 4, at an intermediate or rear point, is a flat bar or plate 8 of suitable metal. The bar 8 comprises downturned end portions 9 which are secured as by soldering or welding to the side walls 10 of the tray 4. The bar further includes, at an intermediate point, a circular opening 11.

The opening 11 is for the reception of a tapered receptacle 12 of suitable material which is suspended from the bar 8. The receptacle 12 is open at both ends. At the upper end thereof the receptacle 12 is provided with an outturned flange 13 which rests on the bar 8.

Fixed on the lower end portion of the receptacle 12 is a horizontally projecting bracket or guide 14. A vertical plunger or stem 15 is slidable in the guide 14, said plunger passing slidably through an opening 16 provided therefor in the bar 8. Fixed on the upper end of the plunger 15 is a button or head 17 for receiving a finger of the operator. Fixed on the lower end portion of the plunger 15 is a bottom or closure 18 for the lower end of the receptacle 12.

Below the bar 8, the plunger 15 is pinched or distorted, in the embodiment shown, to provide a stop 19 for a washer or collar 20 on said plunger. Encircling the plunger 15 under compression between the bracket 14 and the collar 20 is a coil spring 21. The coil spring 21 yieldingly urges the plunger 15 upwardly for engaging the closure 18 with the lower end of the receptacle 12 and also urges the receptacle downwardly tending to anchor the same in the opening.

To snuff a burning cigarette, said cigarette is inserted, lighted end downward, in the tapered receptacle 12 where the fire is soon extinguished for lack of air. The extinguished cigarette may then be withdrawn from the receptacle 12 and conveniently deposited in the ash tray 4. To empty the receptacle 12 of ashes, etc., accumulating therein, the plunger 15 is depressed against the pressure of the coil spring 21 thereby moving the closure 18 downwardly to open position as shown in broken lines in Figure 2 of the drawing. In this manner any ashes or other matter in the receptacle 12 is deposited by gravity in the tray 4. Of course, when the plunger 15 is released it is moved upwardly by the spring 21 for again engaging the closure 18 with the lower end of the receptacle 12. The receptacle 12 may be fixed in the opening 11 in the bar 8 in any suitable manner. The construction and arrangement, it will be observed, is such that the opening or closing of the ash tray 4 is not interfered with.

In the modification of Figure 3 of the drawing, reference character 22 designates a resilient, finger operated bottom or closure which is yieldingly engaged with the lower end of the receptacle 12. The closure 22 includes an upturned tongue or arm 23 which is secured, as by rivets 24, to the lower portion of the receptacle 12. At a point diametrically opposite the mounting arm 23, the resilient closure 22 further includes a lip 25 for receiving the finger of the operator.

In use, the resilient closure 22 normally closes the lower end of the receptacle 12. To empty the receptacle 12, the user inserts a finger downwardly in the tray 4, engages the lip 25 and flexes said closure to open position as shown in broken lines. When released, the resilient closure 22 immediately returns to closed position in engagement with the lower end of the receptacle 12.

The foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly, all suitable modifications and equivalents may be resorted to, falling within the scope of the invention as claimed.

What is claimed as now is as follows:

1. A cigarette extinguisher comprising: an ash tray including opposed side walls, a bar mounted horizontally in the tray on said side walls, said bar having a circular opening therein, a tapered receptacle for extinguishing the burning end of the cigarette, mounted in the opening and depending from the bar, a flange on the upper end of the receptacle engaged on the bar, a bracket on the lower portion of the receptacle, a plunger slidable in the bar and bracket, a closure for the lower end of the receptacle fixed on the plunger, and a coil spring engaged with the bracket for securing the receptacle in the opening and operatively connected to the plunger for actuating same for engaging the closure with the receptacle.

2. A cigarette extinguisher comprising an ash tray, a horizontal bar in said ash tray, said bar having an opening therein, a tapered receptacle for extinguishing the burning end of a cigarette, mounted on the bar and depending therefrom through the opening, a bracket on the lower portion of said receptacle, a stem slidably mounted in said bracket and the bar, a closure for the lower end of the receptacle mounted on said stem, and common means for actuating the stem for engaging the closure with the receptacle and for anchoring said receptacle in the opening.

3. A cigarette extinguisher comprising an ash tray, a horizontal bar in said ash tray, said bar having an opening therein, a tapered receptacle for extinguishing the burning end of a cigarette, mounted on the bar and depending therefrom through the opening, a bracket on the lower

portion of said receptacle, a stem slidably mounted in said bracket and the bar, a closure for the lower end of the receptacle mounted on said stem, and common means for actuating the stem for engaging the closure with the receptacle and for anchoring said receptacle in the opening, said means including a stop collar on the stem above the bracket, and a coil spring mounted under compression on the stem between the bracket and the collar.

4. A cigarette extinguisher comprising a horizontal supporting bar having an opening therein, a receptacle for extinguishing the burning end of a cigarette, mounted in the opening and including a supporting flange resting on the bar, a bracket on the lower portion of the receptacle beneath the bar, a stem slidable vertically through the bar and the bracket, a closure for the lower end of the receptacle mounted on the stem, a stop on the stem engageable beneath the bar for limiting the upward sliding movement of said stem, a slidable collar on the stem engaged beneath said stop, and a compressed coil spring encircling the stem and engaged with the collar and the bracket for actuating said stem for yieldingly engaging the closure with the receptacle and for retaining said receptacle in the opening.

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