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CIGARETTE EXTINGUISHER AND ASH TRAY

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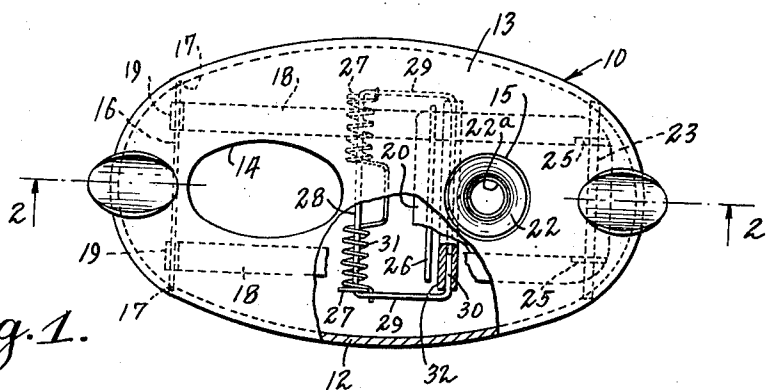


Fig. 1.

Fig. 2.

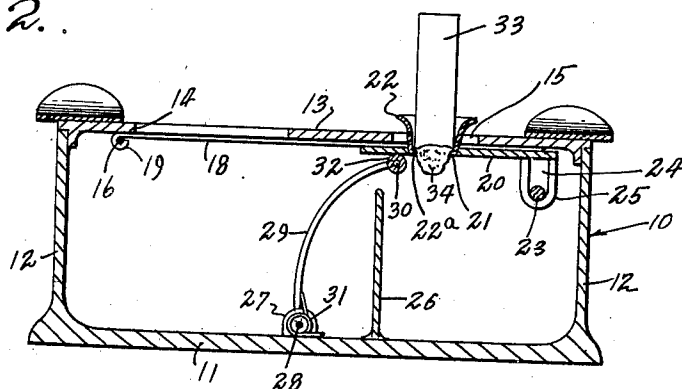
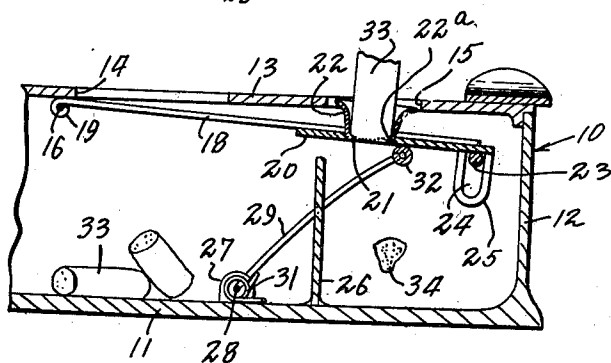


Fig. 3.

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CIGARETTE EXTINGUISHER AND ASH TRAY

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5 Claims. (Cl. 131—237)

This invention relates to cigarette extinguishers and ash trays and particularly to such a device adapted to extinguish the cigarette completely and to prevent any possible smoking or smoldering of the extinguished cigarette. It is common experience that many cigarette smokers will fail to completely extinguish a cigarette or, if the cigarette stub itself is extinguished, it will be left in contact with a severed live ash from the cigarette so that smoldering and smoking of the cigarette stub continues in the ash tray. Various devices have been suggested for solving this problem but these devices have not met with acceptance by the public for the reason of their complicated structure or for the reason that they require a plurality of motions by the cigarette smoker to accomplish their purpose.

Accordingly, it is one object of this invention to provide a device adapted to completely extinguish the cigarette and to further prevent any reignition of the cigarette stub by a severed ash or coal and to accomplish these ends with a minimum of action required on behalf of the smoker.

It is a further object of this invention to devise a device of the type described which in simple, positive and economical in construction.

Further objects and advantages will appear hereinafter.

In the accompanying drawing:

Fig. 1 is a plan view partly in section of a device embodying my invention.

Fig. 2 is a section taken on the line 2—2 of Fig. 1.

Fig. 3 is a fragmentary section similar to Fig. 2.

Referring more particularly to the drawing, I have shown my cigarette extinguisher and ash tray as including a casing 10 composed of a base 11 and upstanding walls 12. As illustrated, the casing 10 is egg-shaped but it will be readily understood that the device may be made in any suitable shape, such as rectangular or the like. A cover plate 13 is mounted upon the casing 10. The cover plate is provided with a large aperture 14 and a smaller aperture 15, as illustrated. A rod 16 is mounted in the casing 10 as in holes or bearings 17. A pair of bars 18 are crimped about the rod 16 for pivotal rotation thereon as shown at 19. A plate 20, having an aperture 21, is secured to the two bars 18 and a flanged mouth 22 having an inwardly projecting shoulder or ledge 22^a is secured to the plate 20. A pin 23 may be secured to one of the walls 12 of the casing 10 to lie within a limit slot 24 formed by a U shaped member 25 attached to the plate 20.

Provided within the casing 10 is an upstanding partition 26. By reference to Fig. 1 it will be noted that said partition 26 does not extend entirely across the inside of the casing 10. Secured to the bottom 11 of the casing 10 are a pair of upstanding ears 27. A shaft 28 is pivotally mounted in said ears and upwardly bent to form arms 29 which in turn are inwardly bent to form stubs 30. A coil spring 31 is mounted about the shaft 28 so as to yieldably urge said arms 29 and stubs 30 upwardly. Mounted upon the stubs 30 for rotation thereon I have provided a roller 32. The cover plate 13 may be provided with any number of suitable rests for the deposit of still ignited cigarettes or cigars.

The operation of the device is as follows:

When it is desired to extinguish a cigarette, the cigarette shown at 33 is placed in the flanged mouth 22 and is pressed downward. The bars 18 pivotally mounted upon the rod 16 will be depressed to the limit permitted by the limit slot 24. During said depression the roller 32 carried by the stubs 30 will pass across the open end of the aperture 21 and will sever from the cigarette the glowing coal 34. In addition to severing the glowing coal 34 the roller 32 will crush the end of the cigarette and extinguish any fire which may remain thereon. The cigarette will be prevented from passing beyond the position shown in Fig. 1 by the shoulder 22^a.

Subsequent to this operation, the user merely drops the cigarette butt 33 through the opening 14 into the compartment shown upon the left side of the partition 26 in the drawing. Under the action of the spring 31 the arms 29 and roller 32 will force the bars 18 carrying the plate 20 back into contact with the cover plate 13. In order to insure contact of the roller 32 with the plate 20 during the entire operation, I prefer to place the arms 29 under spring tension, as shown in Fig. 2, and it will be appreciated that during the depression of the plate 20 the arms 29 will tend to straighten out as is shown in Fig. 3, as the increased force stored in said arms becomes sufficient to overcome the friction of the plate 20 thus allowing roller 32 to slide freely and fully extend the arms 29.

From the foregoing it will be apparent that, when a cigarette is extinguished as above described, the glowing coal 34 will be severed and contained within the casing in the compartment to the right of the partition 26 while the cigarette stub 33 will be stored in the compartment upon the left of the partition 26, thereby securely preventing any reignition of the stub by the glowing

coal 34 and the glowing coal 34 will shortly extinguish, thereby preventing any smoking or smoldering. It will also be noted that in extinguishing the cigarette it is only necessary for the operator to place the cigarette in the flanged mouth 22 and press it downwardly. No other operation is necessary and it only remains to simply drop the cigarette stub through the opening 14.

While the particular forms of the invention herein described are well adapted to carry out the objects of the invention, it is to be understood that various modifications and changes may be made without departing from the principles of the invention, and the invention includes all such modifications and changes as come within the scope of the appended claims.

I claim:

1. In a cigarette extinguisher the combination of a casing, a plate mounted in said casing and adapted to be pivoted downwardly, an open mouth in said plate for receiving the lighted end of a cigarette, a pair of arms pivotally mounted in said casing, a roller carried by said arms, spring means yieldably urging said roller into contact with said plate, said roller being adapted upon downward movement of said plate to move across said mouth to sever the lighted coal from said cigarette.

2. In a cigarette extinguisher the combination of a casing, a plate mounted in said casing and adapted to be pivoted downwardly, an open mouth in said plate for receiving the lighted end of a cigarette, a pair of arms pivotally mounted in said casing, a roller carried by said arms, springs means yieldably urging said roller into contact with said plate, said roller being adapted upon downward movement of said plate to move across said mouth to sever the lighted coal from said cigarette, and spring means yieldably urging said plate towards horizontal position.

3. In a cigarette extinguisher the combination

of a casing, a plate mounted in said casing and adapted to be pivoted downwardly, an open mouth in said plate for receiving the lighted end of a cigarette, a pair of arms pivotally mounted in said casing, a roller carried by said arms, spring means yieldably urging said roller into contact with said plate and said plate towards horizontal position, said roller being adapted upon downward movement of said plate to move across said mouth to sever the lighted coal from said cigarette, and means limiting said downward movement of said plate.

4. In a cigarette extinguisher the combination of a casing, a partition dividing said casing into two compartments, a cover, a plate pivotally mounted beneath said cover, a hole in said cover, an open flanged mouth in said plate in line with said hole, a pair of arms pivotally mounted in said casing beneath said plate, a roller upon said arms, spring means yieldably urging said roller into contact with said plate and said plate towards horizontal position, said roller being adapted to move across said open mouth upon downward pivotal movement of said plate, and sever the lighted coal from said cigarette.

5. In a cigarette extinguisher the combination of a casing, a partition dividing said casing into two compartments, a cover, a plate pivotally mounted beneath said cover, a hole in said cover, an open flanged mouth in said plate in line with said hole, a pair of arms pivotally mounted in said casing beneath said plate, a roller upon said arms, spring means yieldably urging said roller into contact with said plate and said plate towards horizontal position, said roller being adapted to move across said open mouth upon downward pivotal movement of said plate, and sever the lighted coal from said cigarette, said first mentioned hole communicating with one of said compartments and a second hole communicating with the other of said compartments.

HOKE MONROE HAWKINS.