Aug. 29, 1939. N. M. CAMERON 2,171,489

ASHTRAY AND CIGARETTE EXTINGUISHER

Filed April 30, 1937

FIG. 1

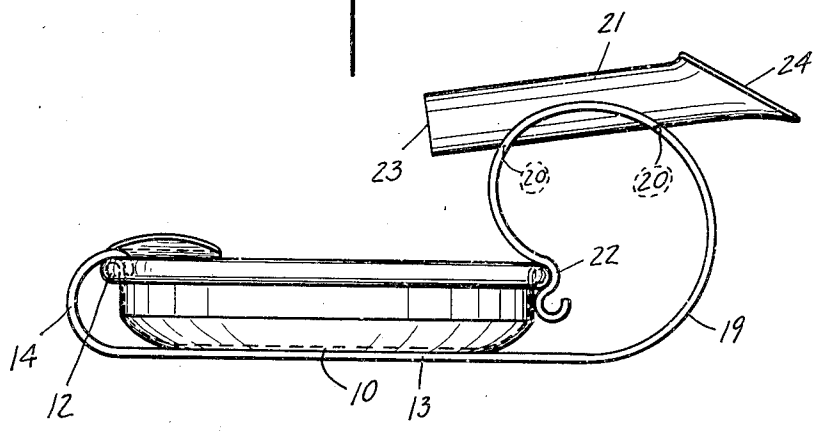


FIG. 3

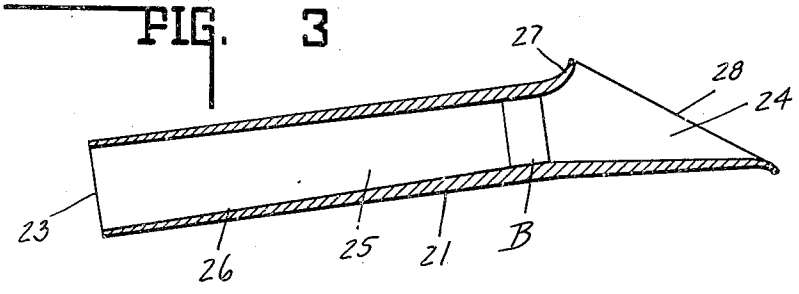
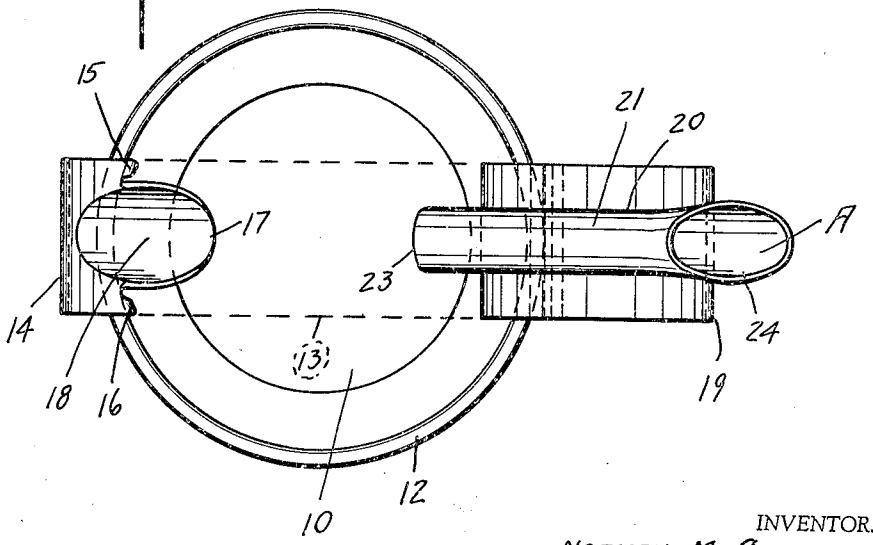


FIG. 2



INVENTOR.
NORMAN M. CAMERON.
BY Lockwood Goldsmith & Galt
ATTORNEYS.

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ASHTRAY AND CIGARETTE EXTINGUISHER

Norman M. Cameron, Bedford, Ind.

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3 Claims. (Cl. 131—235)

This invention is directed to a smothering device for cigarettes and the like, and a receiver for the latter.

The chief object of the invention is to provide a device of the aforesaid character and constructed of a minimum number of parts whereby the purposes specified may be accomplished and the parts incorporated in a structure that may be highly ornamental, not cumbersome, or expensive to fabricate.

Other objects and features of the invention will be more specifically pointed out hereinafter.

The full nature of the invention will be understood from the accompanying drawing and the following description and claims:

In the drawing Fig. 1 is a side elevation of one embodiment of the invention and of the substantially horizontal extinguisher type.

Fig. 2 is a top plan view of the device embodying the invention.

Fig. 3 is an enlarged longitudinal sectional view of the extinguishing tube shown in Figs. 1 and 2.

In the drawing 10 indicates the base of any convenient or open face container tray having the side wall portion 11 and the rim portion 12. 13 indicates a relatively wide underlying plate or strip of metal which projects beyond the tray at opposite ends. One end 14 is directed outwardly and upwardly and thence inwardly into clamping engagement with the rim portion of the tray as indicated at 15. The free end 17 intermediate the two clamping engagements 15 is grooved as at 18 to serve as a rest for a lighted cigarette, and the like.

The projecting opposite end of the strip portion 14 is directed upwardly and outwardly as at 19 and is grooved as at 20 to nest a tubular receiver indicated by the numeral 21 in Figs. 1 and 2. The free end of portion 19, in this instance is turned inwardly and downwardly and has clamping engagement as at 22 with the rim portion 12 of the open face tray substantially as shown. The groove portion 20 has the tubular receiver or extinguishing tube 21 suitably secured thereto.

As shown in Figs. 1 and 2, this tubular receiver has its discharge end 23 terminating above the ash tray and in registration with said tray. The opposite end 24 constitutes the receiving end of the tube and extends outwardly beyond the tray and is at a slightly greater elevation than the discharge end of the tube.

Reference will now be had more especially to Fig. 3 wherein the tubular receiver illustrated herein is shown in its preferred formation. This formation consists of a bore 25 sufficient to receive and permit the passage of cigarettes therethrough. The major portion of the bore in the preferred form is flared as at 26 and this forms an elongated outwardly flared portion, the same being largest at its discharge end. The receiving end 24 of the tube is also flared outwardly or lipped as at 27.

In the horizontal forms of the invention, such as herein illustrated, the mouth 24 is biased as indicated at 28 with reference to the axis of the tube and the biasing is such that the outermost portion constitutes the lowermost portion. The purpose of this biasing is to insure that upon insertion of the cigarette in the mouth 24, such ashes as may be on the cigarette will be deposited on the forwardly projecting portion which is relatively exposed, as indicated at A in Fig. 2, and the same are crowded down through the tube when the cigarette is passed into the tube. This elongated portion of the mouth also serves as a cigarette guide and insures ready longitudinal insertion of the cigarette.

The construction and arrangement of the tube with its open ends is such that it functions as a smothering device and furthermore when a second cigarette is immediately applied to the tube, it causes the ejection of the first mentioned cigarette. The first mentioned cigarette will be extinguished in normal usage before the second cigarette is inserted therein. The flaring of the bore may be such that after the cigarette has cleared the restricted portion indicated at B in Fig. 3, it will readily slide down the tube and automatically discharge into the tray. If the inclination of the tube is insufficient for that purpose, then the extinguished cigarette in the tube will be forcibly discharged therefrom upon insertion of another cigarette or portions of additional cigarettes.

In devices wherein the tube is positioned more nearly to the vertical than to the longitudinal, the amount of flare of portion 26 will be relatively slight. Also, the biasing 28 will be correspondingly slight or may be entirely omitted. Preferably in most embodiments of the invention, the flared mouth 27 is provided, since the same facilitates guidance and location of the cigarette upon insertion into the tube.

While the tube support is herein shown as having a portion positioned beneath the tray, the same constitutes merely one embodiment of the basic invention. Such positioning is not absolutely necessary.

Also, while herein the support member is shown clampingly associated at diametrical portions of

the tray and associated with the rim portion thereof and in longitudinal alignment with the longitudinal axis of the tube, the support may be otherwise clampingly associated with the tray or otherwise secured thereto, and the anchorage or connection between the tray and support maybe other than in longitudinal alignment with the longitudinal axis of the tube.

Various modifications of the foregoing invention along the lines hereinbefore indicated will readily suggest themselves to persons skilled in this art. It is, therefore, to be understood that the specific disclosure both by way of drawing and description, are illustrative only of the basic and preferred form of the invention and that such modifications as have been described and which will readily suggest themselves to persons skilled in this art are all considered to be within the broad scope of this invention, reference being had to the appended claims.

The invention claimed is:

1. The combination with an open faced ash tray and a tube support extending upwardly therefrom and in juxtaposition to a side edge of the tray, of a tubular receiver supported by the support at but a slight angle to the plane of the base of the tray, said receiver comprising a tube with a bore therethrough with an open receiving end and an open discharge end, the ends being aligned, the receiving end terminating beyond the tray and the discharge end terminating above the tray, said receiver permitting the reception, passage and discharge of cigarettes and the like, and smothering the same without the necessity of an end closure or closed chamber communication, the support having clamping engagement with the tray, the clamping contact being upon opposite sides of the tray, and a support of trough character for lighted cigarettes and the like, and supported by the end of the support opposite the receiver supporting end, the support comprising an elongated strip of metal upon which the tray is seated and means on the strip adjacent one tray clamping portion for tray interior engagement preventing accidental lateral separation of the tray from the support.

2. The combination with an open faced ash tray and a tube support extending upwardly therefrom and in juxtaposition to a side edge of the tray, of a tubular receiver supported by the support at but a slight angle to the plane of the base of the tray, said receiver comprising a tube with a bore therethrough with an open receiving end and an open discharge end, the ends being aligned, the receiving end terminating beyond the tray and the discharge end terminating above the tray, said receiver permitting the reception, passage and discharge of cigarettes and the like, and smothering the same without the necessity of an end closure or closed chamber communication, said tubular receiver having a bore with an elongated flared portion tapering outwardly toward the discharge end, and a shorter outwardly tapering portion at the opposite end and terminating in a bell-shaped receiving mouth.

3. The combination with an open faced ash tray and a tub support extending upwardly therefrom and in juxtaposition to a side edge of the tray, of a tubular receiver supported by the support at but a slight angle to the plane of the base of the tray, said receiver comprising a tube with a bore therethrough with an open receiving end and an open discharge end, the ends being aligned, the receiving end terminating beyond the tray and the discharge end terminating above the tray, said receiver permitting the reception, passage and discharge of cigarettes and the like, and smothering the same without the necessity of an end closure or closed chamber communication, the receiving end of the tubular receiver having a bell-shaped mouth, the edge thereof being biased to the axis of the receiver, the lowest portion thereof projecting beyond the upper portion for ash reception and cigarette guidance, and the tubular receiver having a bore with an elongated flared portion tapering outwardly toward the discharge end, and a shorter outwardly tapering portion at the opposite end and terminating in a bell-shaped receiving mouth.

NORMAN M. CAMERON.