

Aug. 27, 1957

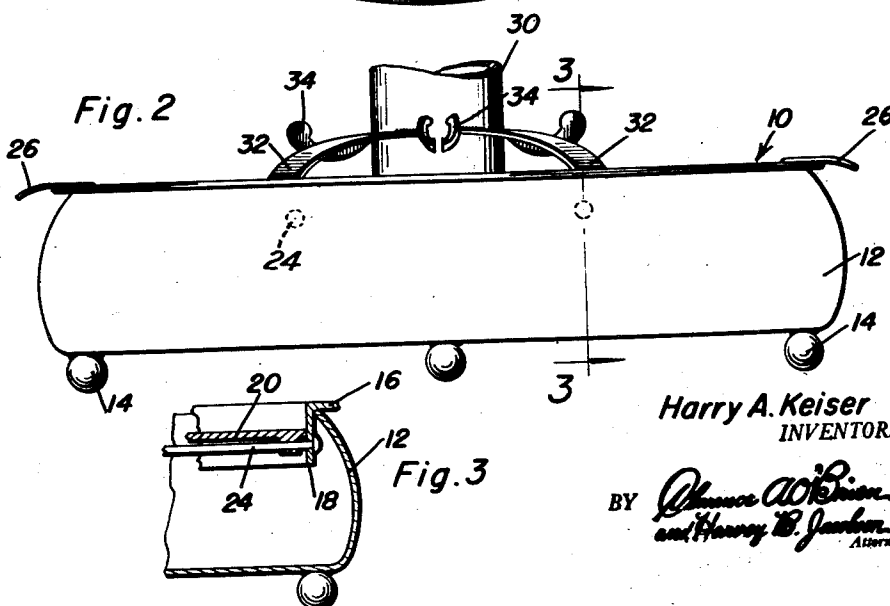
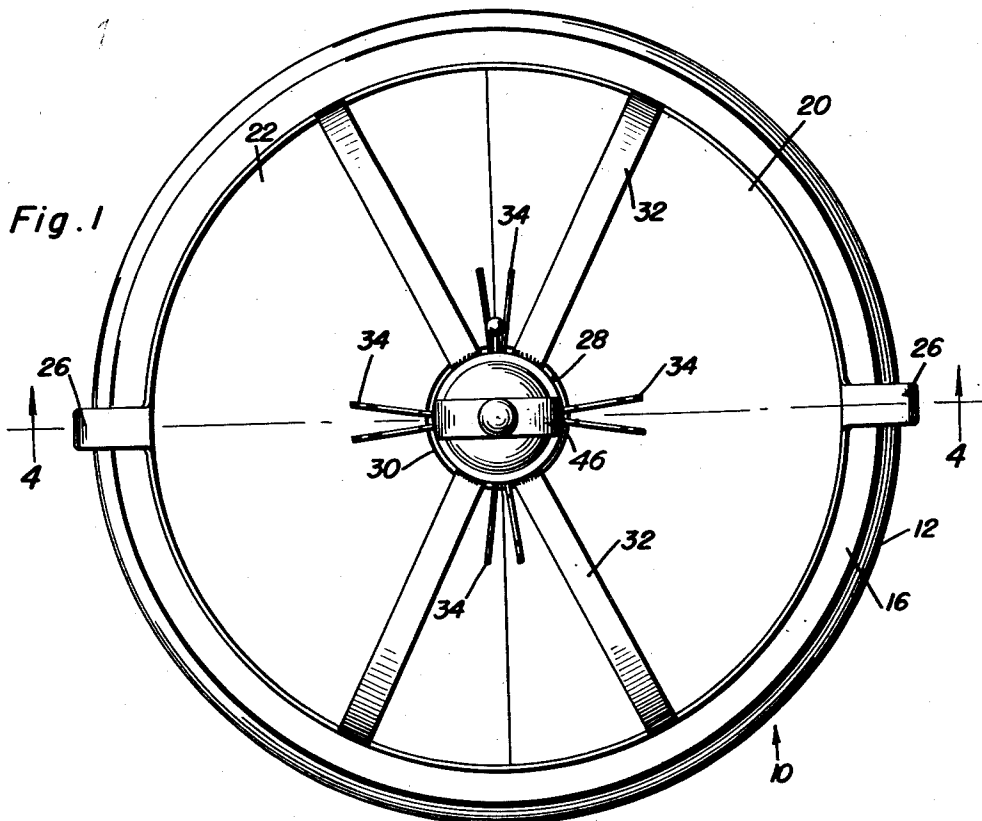
H. A. KEISER

2,804,080

ASH TRAY

Filed July 12, 1954

2 Sheets-Sheet 1



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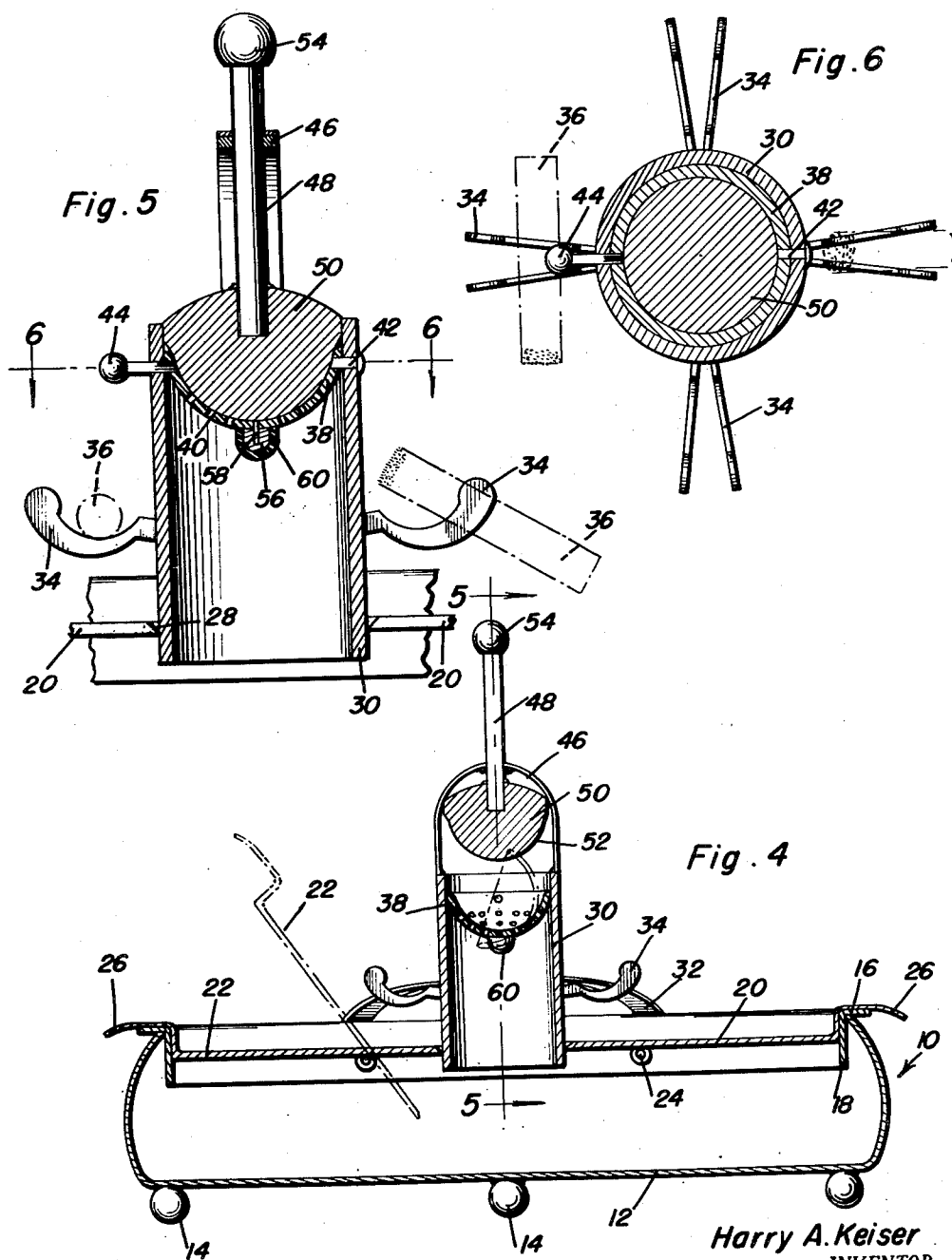
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ASH TRAY

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2 Sheets-Sheet 2



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2,804,080

ASH TRAY

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2 Claims. (Cl. 131—237)

This invention relates to an ash tray and more specifically to a device for extinguishing lighted cigarettes when they are to be disposed of.

An object of this invention is to provide an ash tray having a pivotal closure and extinguishing means for easily and quickly extinguishing a lighted cigarette and dumping it into the interior of the container or receptacle.

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 drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a top plan view of the ash tray of the present invention;

Figure 2 is a partial side elevational view of the construction of Figure 1;

Figure 3 is a transverse, detailed sectional view taken substantially along section line 3—3 of Figure 2 with portions omitted for showing the details of construction of one of the pivotal closure members;

Figure 4 is a vertical sectional view taken substantially along section line 4—4 of Figure 1 showing the details of construction and the relationship of the various elements of the ash tray of the present invention;

Figure 5 is an enlarged detailed sectional view showing the structural details of the cigarette extinguishing mechanism; and

Figure 6 is a top sectional view taken substantially along section line 6—6 of Figure 5 showing the structural details and relationships of the cigarette extinguishing mechanism.

Referring now specifically to the drawings, it will be seen that the numeral 10 generally designates the ash tray of the present invention including a relatively large receptacle 12 having a plurality of supporting legs 14 for supporting the receptacle 12 in spaced relation to a supporting surface wherein the supporting surface will not be damaged by heat in the event lighted cigarettes are positioned in the receptacle 12. An annular rim 16 having an internal depending flange 18 is positioned in the open upper end of the receptacle 12. A pair of semi-circular closure members 20 and 22 are pivotally mounted within the rim 16 by parallel pivot pins 24. Each of the pivotal closures 20 and 22 is provided with an outwardly projecting handle 26 which may be grasped for pivoting the closures 20 and 22 about their respective pivot pins 24 thereby dumping any ashes or material that may have been deposited on the upper surfaces of the closures 20 and 22. The abutting surfaces of the closures 20 and 22 are provided with semi-circular notches or recesses 28 substantially at the central portion thereof for receiving a vertically disposed tubular member 30. The tubular member 30 is mounted by means of a plurality of radially extending brace members 32 that are rigidly secured to the rim 16 and the outer surface of the tubular member 30, thereby securing the tubular member 30 in spaced relation to

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the bottom of the receptacle 12 for a purpose described hereinafter.

Referring now specifically to Figures 4—6, the tubular member 30 is provided with a plurality of pairs of radially extending arms 34 which are resilient and generally concave on the upper surfaces thereof wherein cigarettes 36 may be positioned across the upper surfaces thereof or positioned between the arms 34 of each pair wherein the resilient arms 34 will grip and retain the cigarette 36 in an accessible position. Adjacent the upper end of the tubular member 30 is a semi-spherical member 38 having a plurality of perforations 40 therein for permitting passage of a portion of the ashes and fire on the end of a cigarette. The semi-spherical member 38 is pivotally mounted in the upper portion of the tubular member 30 by a pair of colinear pivot pins, one of which is designated as 42 and one portion of the other pivot pin extends exteriorly of the tubular member 30, thereby providing an operating knob 44 for rotating the perforated member 38 about the axis formed by the pivot pins. The upper end of the tubular member 30 is also provided with a U-shaped guide member 46 which slidably receives an operating rod 48 of a cigarette crushing member 50 which has a generally semi-spherical lower surface 52 for supplemental engagement with the perforated member 38. The upper end of the operating rod 48 is provided with an enlarged ball 54 for grasping and reciprocation of the cigarette crushing member 50. As shown in Figure 5, a weight 56 is secured to the undersurface of the perforated member 38 and secured thereto by a suitable pin 58. The weight 56 is covered with a resilient member, such as rubber, as indicated by the numeral 60. The weight member 56 returns the perforated member 38 to its normal position wherein the upper edge of the semi-spherical member 38 is substantially in a horizontal plane. The weight 56 together with the rubber covering 60 also serves as a stop member for limiting the pivotal movement of the semi-spherical member 38 when the crushed cigarettes are dumped therefrom downwardly into the container 12 through the tubular member 30.

In order to prevent scorching of the supporting surface, cigarette 36 may be positioned between the spring arms 34 or positioned within the concave portions of the spring arms 34 substantially as illustrated in Figure 5. If cigarette ashes or cigarettes are deposited on the pivotal closures 20 and 22, the material may be dumped within the container 12 by raising one of the handles 26, as desired. When a cigarette butt should be extinguished, the cigarette crushing member 50 may be raised upwardly by grasping the operating knob 54 wherein the cigarette butt may be positioned upon the upper surface of the semi-spherical member 38. Upon downward reciprocation of the cigarette extinguishing member 50, the lighted butt will be extinguished. By manipulating the operating rod 44 projecting exteriorly of the tubular member 30, the semi-spherical member 38 may be pivoted about the pivot axis formed by the pivot pins wherein the crushed cigarette may be dumped from the perforated member 38 into the interior of the receptacle 12 when the extinguishing member is raised to the position shown in Fig. 4. The weight 56 returns the perforated member 38 to its normal position for reception of the extinguishing member 50, and the weighted member 56 together with the rubber covering 60 also forms a stop member for limiting the pivotal movement of the perforated member 38. The device of this invention may be constructed of any suitable materials having desirable decorative features, such as normally employed in ash trays.

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 shown and described, and accordingly, all suitable modifications and

equivalents may be resorted to, falling within the scope of the appended claims.

What is claimed as new is as follows:

1. A combined ash tray and cigarette extinguisher comprising an enlarged receptacle having an open top, a vertical tube, means supporting the tube above the open top of the receptacle with the tube being disposed centrally in the receptacle, the bottom end thereof being disposed in spaced relation to the bottom of the receptacle, said tube having an open upper end, a perforated closure member mounted adjacent the open upper end of the tube for pivotal movement about an axis generally transverse of said tube from a position forming a closure for the tube to a position for dumping the contents on the perforated member into the receptacle, and a cigarette crushing member mounted for movement toward and away from the perforated member for crushing and extinguishing a cigarette placed on the perforated member, and means for automatically returning the perforated member to its closure forming position.

2. The combination of claim 1 wherein said perforated member and crushing member are generally semi-spherical in shape, said means for returning the perforated member to its closure forming position including a weight attached to the underside of said semi-spherical perforated member in offset relation to the pivot axis thereof.

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