June 12, 1951 H. W. HOLMES 2,556,370

ASH RECEPTACLE FOR AUTOMOTIVE VEHICLES

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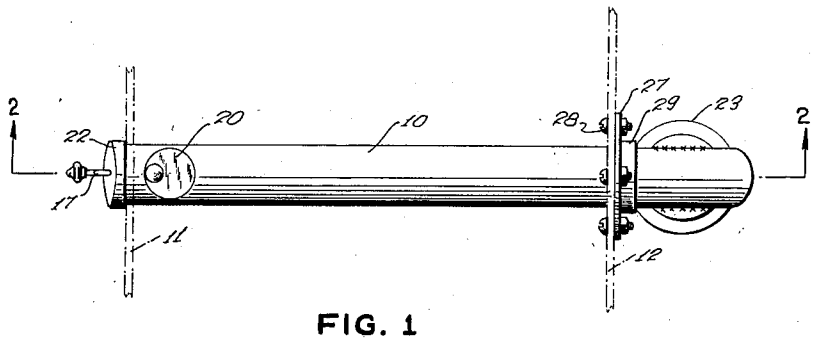


FIG. 1

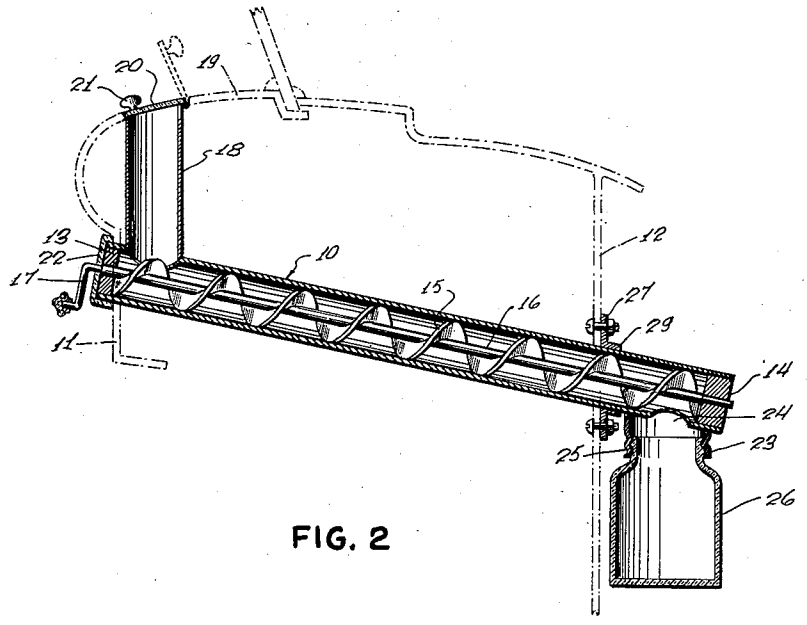


FIG. 2

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ASH RECEPTACLE FOR AUTOMOTIVE VEHICLES

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2 Claims. (Cl. 206—19.5)

1

This invention relates to receptacle for cigarette and cigar ashes and similar waste material, and more particularly to a fire extinguishing ash receptacle for an automotive vehicle.

It is among the objects of this invention to provide a cigarette and cigar ash receptacle for mounting in an automotive vehicle which receptacle provides an ash receiving structure inside the vehicle body, as on the interior cowl or instrument board of the vehicle, a container in some convenient location outside of the body, as under the vehicle hood, and means connecting the ash receiving structure to the container for passage of waste material from the receiving structure into the container, which is manually operable to positively move waste material from the receiving structure into the container and includes a container mounting which permits easy removal of the container for emptying and cleaning, which will quickly extinguish any fire, such as lighted cigarette or cigar butts, deposited therein, and eliminate any danger of igniting any part of the vehicle by such lighted articles, and which is simple and durable in construction, economical to manufacture, neat and attractive in appearance, and can be installed in an existing vehicle with no material modification of the vehicle construction.

Other objects and advantages will become apparent from a consideration of the following description and the appended claims in conjunction with the accompanying drawings, wherein:

Figure 1 is a top plan view of an ash receptacle illustrative of the invention; and

Figure 2 is a longitudinal cross-sectional view on the line 2—2 of Figure 1.

With continued reference to the drawings, the ash receptacle comprises an elongated metal tube 10 of substantially uniform diameter and of a length somewhat greater than the distance from the vehicle instrument board 11 to the vehicle dashboard or fire wall 12. The tube 10 has a diameter sufficient for the easy passage of such objects as cigarette and cigar butts therethrough, and has end walls 13 and 14 closing its opposite ends, each of the end walls being centrally apertured for a purpose which will presently appear.

A spiral screw 15 is disposed in the tube 10 and extends from one end wall to the other. This screw is of a size such that it is substantially in contact with the inner surface of the tube and has a central shaft 16 which is journaled at its ends in the apertures in the end walls 13 and 14.

The shaft 16 is extended through the end wall 13 and formed into a hand crank 17 outside of

2

this end wall, by means of which crank the screw can be manually rotated to positively move waste material from one end of the tube to the other.

A hollow ash receiving structure 18 is secured at one end to the side wall of the tube 10 adjacent the end wall 13 and projects laterally from the tube in communication with the interior thereof. When the tube is operatively mounted in the vehicle instrument board and dashboard, the ash receiving structure 18 extends upwardly through an aperture in the vehicle internal cowl 19, terminating substantially flush with the upper or outer surface of the internal cowl, and a cover 20 is hinged at one side to the structure 18 at the end of the structure remote from the tube 10. The cover 20 is provided with a knob 21 by means of which the cover can be conveniently moved between its closed position, as illustrated in full lines in Figure 2, and its open position, as indicated in broken lines in Figure 2.

An ornamental cap or cover 22 is secured on the end of the tube 10 which projects inwardly of the vehicle body through the instrument board 11, and this cap is apertured for the passage of the corresponding end portion of the shaft 16 therethrough.

A flanged, circular cap 23 is secured to the side wall of the tube 10 adjacent the end wall 14 and the side wall of the tube is provided with an aperture 24 opening into this cap. The cap is disposed on the side of the tube opposite the ash receiving structure 18, so that it depends from the tube when the ash receptacle is mounted in the operative position illustrated in Figure 2, and the flange of the cap is provided with screw-thread formations 25.

A hollow container 26 formed of a fire resistant material, such as glass, has an externally screw-threaded rim threaded into the flange of the cap 23 and is dependingly supported from the cap 23 at the outer side of the vehicle dashboard or fire wall 12.

In order to more effectively support the weight of the container 26, a washer 27 is secured to the vehicle dashboard 12 by suitable means, such as the screws 28, and this washer is provided with an aperture which receives the tube 10 and is surrounded by an annular boss 29 engaging the outer surface of the tube and providing a support therefor.

The only modification required in the vehicle construction is the formation of the apertures in the interior cowl 19, the instrument board 11, and the dashboard 12, to receive the tube 10 and the ash receiving structure 18, and when the ash

receptacle of the invention is operatively mounted in the vehicle, the elongated tube extends through the vehicle instrument board and dashboard, the ash receiving structure 18 extends upwardly from the tube through the interior cowl of the vehicle and the container 19 is suspendingly supported by the tube at the outer side of the vehicle dashboard.

The invention may be embodied in other specific forms without departing from the spirit or essential characteristics thereof. The present embodiment is, therefore, to be considered in all respects as illustrative and not restrictive, the scope of the invention being indicated by the appended claims rather than by the foregoing description, and all changes which come within the meaning and range of equivalency of the claims are, therefore, intended to be embraced therein.

I claim:

1. An ash receptacle for an automotive vehicle comprising an elongated tube, apertured end walls secured one in each end of said tube, a helical screw in said tube extending longitudinally thereof and journaled at its ends in said end walls, means connected to one end of said screw and disposed outside the corresponding end wall for manually rotating said screw to move ashes longitudinally of said tube, a hollow ash receiving structure projecting laterally from said tube at the end of the latter adjacent said means and communicating interiorly with the interior of said tube, a cover hinged to said structure at the end of the latter remote from said tube, a flanged cap secured to said tube at the other end of the latter and having therein an aperture opening into said tube, said cap having screw-thread formations in the flange thereof, and a hollow container having an externally screw-threaded rim threaded into the flange of said cap for receiving ashes from said tube, said receptacle being adapted to be mounted in an automotive vehicle with said ash receiving structure extending through the vehicle internal cowl from below the latter, said tube extending at its end adjacent

said ash receiving structure through the vehicle instrument board and at its opposite end through the vehicle dashboard and supporting said container at the outer side of the vehicle dashboard.

2. In combination with an automobile having a dashboard provided with an aperture therein, an instrument board spaced from said dashboard and having an aperture therein in alignment with the aperture in said dashboard, and a cowl extending from the upper edge of said instrument board to the upper edge of said dashboard and having an aperture therein adjacent the aperture in said instrument board, an ash receptacle comprising an elongated tube extending through the apertures in said instrument board and said dashboard, an ash receiving structure projecting from said tube through the aperture in said cowl and communicating interiorly with the interior of said tube, a flanged cap secured to said tube at the side of said dashboard remote from said instrument board and at the lower side of said tube, said tube and said cap having registering apertures therein for the passage of ashes from said tube through said cap, a hollow container having an open upper and releasably secured to said cap, centrally apertured end walls secured one at each end of said tube, a shaft extending through said end walls and having a crank thereon at the outer side of the end wall adjacent said instrument board, and a helical screw surrounding said shaft and extending longitudinally of said tube for moving ashes from said receiving structure to said container upon rotation of said shaft by said crank.

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