May 23, 1939. J. VISSER 2,159,062

ASH RECEIVING CONTAINER

Filed April 4, 1935 2 Sheets-Sheet 1

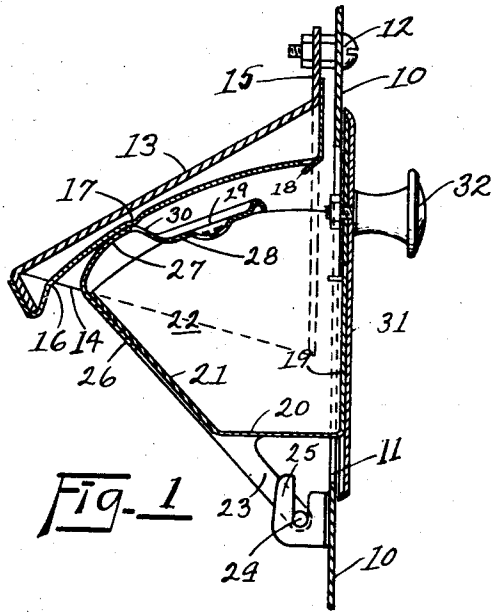


Fig. 1

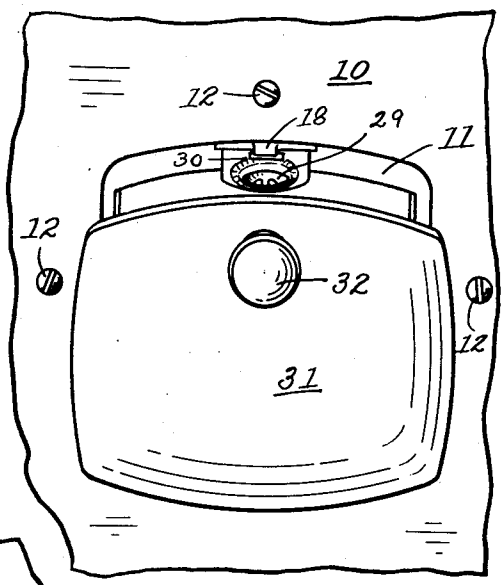


Fig. 2

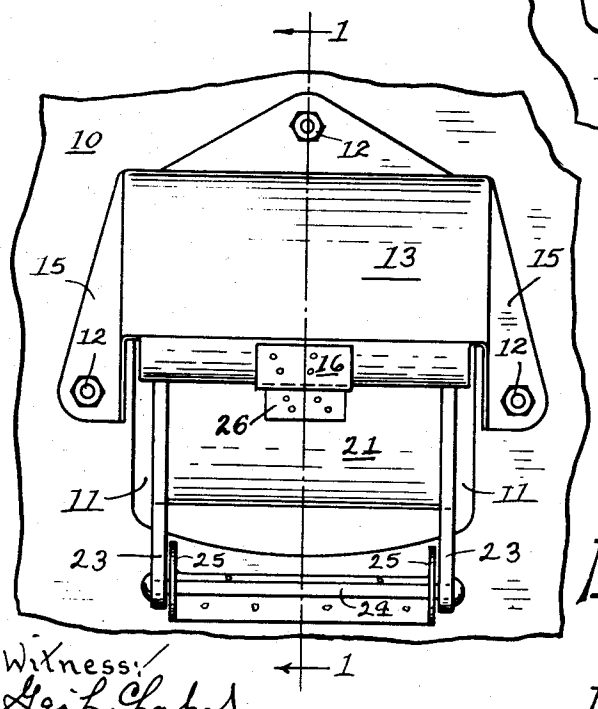


Fig. 3

Witness:
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ASH RECEIVING CONTAINER

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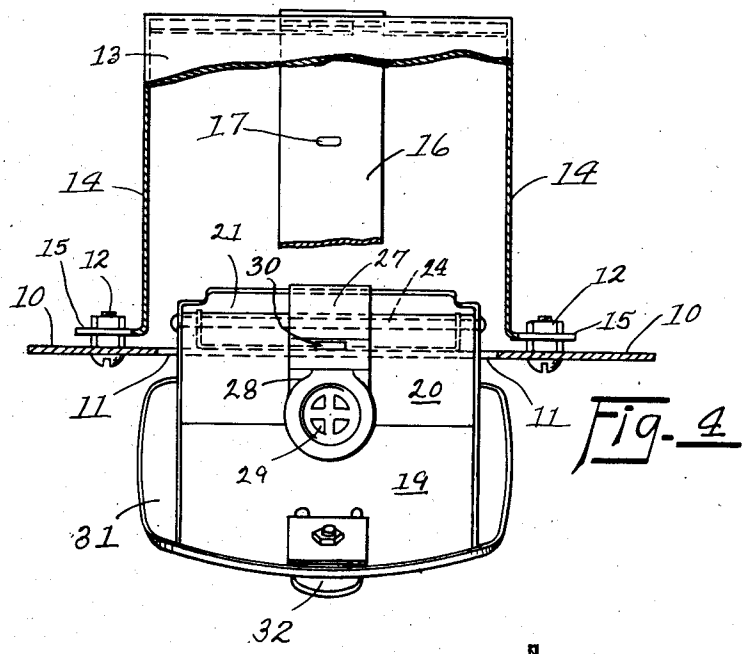


Fig. 4

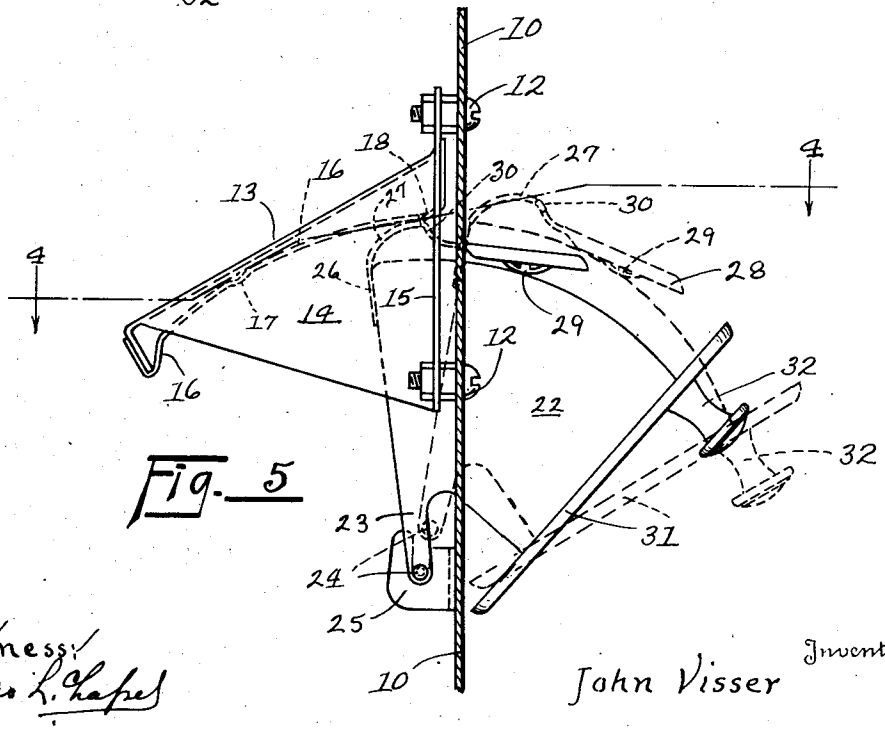


Fig. 5

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UNITED STATES PATENT OFFICE

2,159,062

ASH RECEIVING CONTAINER

John Visser, Grand Rapids, Mich.

Application April 4, 1935, Serial No. 14,619

10 Claims. (Cl. 206—19.5)

The instant invention relates to ash receiving containers and more particularly to such devices as are especially adapted for insertion within and removal from an opening within an interior wall of a motor vehicle.

The present invention is of the general character illustrated and described in my copending application, Serial No. 13,690, filed March 29, 1935, but is an improvement thereover in certain respects hereinafter appearing.

The primary objects of the invention are to provide a device of the character above indicated which is adapted for ready reception within and convenient removal from an opening through a supporting plate, such as the dash panel of a motor vehicle; to provide such a device which is substantially flush with the supporting plate upon which it is mounted when in its closed position; to provide such a device which is rattle proof upon insertion within its receiving opening; to provide such a device having means for limiting the opening tilting movement thereof; to provide such a device having spring tensioned means for maintaining the container within its opening, said spring tensioned means likewise providing a snuffer for cigarettes and cigars; and, to provide such a device which is attractive in appearance, economical in manufacture and utilitarian in use.

An illustrative embodiment of the invention is shown in the accompanying drawings, wherein:

Figure 1 is a vertical central sectional view of the device on line 1—1 of Figure 3;

Figure 2 is a front elevational view thereof showing the container in open position;

Figure 3 is a rear elevational view thereof with the container in closed position;

Figure 4 is a sectional view on line 4—4 of Figure 5; and

Figure 5 is a side elevational view of the device tilted to open position, the manner of inserting the container portion of the device within the opening of the supporting plate being indicated in dotted lines.

Referring to the drawings wherein like parts of the device and its mounting support there shown are designated by the same numerals in the several views, a supporting plate 10 such as the dash panel of a motor vehicle is provided with an opening 11 therein formed therethrough. Secured to the rear wall of the supporting plate 10 as by screw threaded bolts 12 is a hood having a canopy portion 13 and depending side portions 14 whose marginal edges 15 are flanged laterally.

A spring member 16 is spot welded or otherwise secured below the canopy portion in any suitable manner and is provided with a rib 17 whose purpose and function is hereinafter more particularly set forth and described. This spring member 16 is further provided with a depending struck-out portion 18 forming a stop whose purpose and function will likewise hereinafter more fully appear.

A container for the reception of the ashes and the like comprises a front portion 19, a bottom 20, a rear portion 21 and two side portions 22 in spaced relation to each other and disposed between the front and rear portions 19, 21 of the container, all of said portions being preferably of stamped sheet metal.

Secured to the under surface of the bottom member 20 is a pair of depending arms 23 to which is secured a transverse member here shown as a rod 24 spaced from and disposed in parallelism with the bottom portion 20 of the container, which rod 24 is adapted to be hingedly seated within a pair of upwardly extending spaced hook members 25 disposed below the bottom edge and between the side edges of the opening 11 of the supporting plate 10 and fixed securely to the plate 10 to form fulcrums for the tiltable container, all as best shown in Figure 1 wherein the container is shown in closed position and as shown in Figure 5 wherein the container has been tilted to open position.

A spring member 26 secured to the outer or rear surface of the rear portion 21 of the container as by spot welding is provided with an upwardly-forwardly-downwardly turned contacting portion 27 whose further forwardly extending portion 28 is provided with an apertured depressed well 29 which provides a finger hold for manual depression of the spring member 26 when it is desired to remove the container from the opening for emptying the contents thereof. This portion will also serve as a cigar and cigarette snuffer. This upwardly-forwardly-downwardly turned contacting portion 27 is further provided with a transverse slot 30 therethrough adapted to be engaged by the struck-out portion 18 when the device is tilted forwardly to open position and forming a stop limiting the opening tilting movement of the container as best shown in Figure 5, the rib 17 engaging said slot 30 when the container is tilted to closed position as best shown in Figure 1 to prevent rattling of the container within its supporting plate opening.

The front portion 19 of the container is preferably provided with an ornamental face plate 31 which is secured thereto by the knob 32 adapting the device for tilting movement within the opening 11 of the supporting plate or dash panel 10.

In operation the rod 24 is seated on the hooks 25 on the inside of the opening 11 of the supporting plate 10, as best shown in Figure 5, and since the member 26 is flexible, the container may be tilted to closed position with the depression of the member 26 as shown in Figure 1, whereupon it may be subsequently tilted forwardly for use but its withdrawal from its opening is prevented by the struck-out portion 18 engaging the slot 30. When however it is desired to remove the container from its opening for the purpose of emptying its contents, the actuating portion 29 may be manually depressed to disengage the struck-out portion 18 from its slot 30 whereupon the container may be removed as indicated in dotted lines in Figure 5.

The container portion alone with a front ornamental panel, a spring member and a hinge mounting is often sold as a completed unit ready for insertion in a stationary panel having a suitable opening therein and suitable lateral portions supported adjacent thereto.

It will thus be seen that the device herein shown and described may be readily inserted and seated within and conveniently removed from the opening in the supporting plate and that the device is economical in manufacture, attractive in appearance and utilitarian in use.

I claim:

1. In a container adapted for tilting movement within an opening in a supporting plate, said container being provided with a curved bottom member adapted to be swingably seated on a correspondingly curved support disposed below and inside said opening, said supporting plate including a rearwardly extending portion above said container for engagement by a spring means, and spring means coacting between said container and said supporting plate for resiliently retaining said curved bottom member in tight frictional cooperation with said curved support.

2. In a container adapted for tilting movement within an opening in a supporting plate, said container being provided with a member spaced from and disposed in parallelism with its bottom and adapted to be hingedly seated within a pair of spaced hook members disposed below and inside said opening, said supporting plate having a rearwardly extending portion disposed above said container, and spring means movable with said container and coacting with said rearwardly extending portion of said supporting plate for resiliently retaining said parallel member within said hook members.

3. In a container adapted for tilting movement within an opening in a supporting plate, said container being provided with a member spaced from and disposed in parallelism with its bottom and adapted to be hingedly seated within a pair of spaced hook members disposed below and inside said opening, said supporting plate having a rearward extension disposed above said container, and spring means movable with said container and coacting with said extension of said supporting plate for resiliently retaining said parallel member within said hook members, and top means for limiting the movement of the container relative to its supporting plate.

4. In a container adapted for tilting movement within an opening in a supporting plate, said supporting plate having a rearwardly extending portion disposed above said container, said container being provided with a member spaced from and disposed in parallelism with its bottom and adapted to be hingedly seated within a pair of spaced hook members disposed below and inside said opening and with spring means movable with said container and coacting with said rearwardly extending portion of said supporting plate for resiliently retaining said parallel member within said hook members, and stop means for limiting the movement of the container relative to its supporting plate, said spring means having a portion extending forwardly and provided with a cup shaped depression for manual actuation of said spring.

5. In a container adapted for tilting movement within an opening in a supporting plate, said container being provided with a depending rod disposed in spaced parallelism with its bottom and adapted to be seated within a pair of spaced hooks disposed below and inside said opening, said supporting plate having a rearward extension disposed above said container, and spring means coacting between said container and said extension of said supporting plate for resiliently retaining said rod within said hooks.

6. In a container adapted for tilting movement within an opening in a supporting plate, the rear side of said plate having a hood secured thereto and forming a canopy for said container, said container being provided with a member spaced from and disposed in parallelism with its bottom and adapted to be hingedly seated within a pair of spaced hook members disposed below and inside said opening, and with spring means co-acting between said hood and said container for resiliently retaining said parallel member within said hook members.

7. In an ash receiver of the concealed type adapted to swing into and out of an opening in a supporting wall, the combination of a flange supported by said wall and extending laterally adjacent an edge of said opening, an ash receiving chamber mounted for swinging movement about an edge of said opening, a spring having an end portion attached to said ash receiving chamber, an intermediate portion adapted to bear against said lateral flange and an opposite end portion provided with means whereby said spring may be manually actuated when said receiving chamber is swung to open position.

8. In an ash receiver of the concealed type adapted to swing into and out of an opening in a supporting wall, the combination of a wall having an opening therein, an ash container operative within said opening, a stationary member adjacent said container having stop means thereon, a spring attached to said container to move therewith for resiliently contacting said stationary member, said spring having stop means cooperative with stops on said stationary member for yieldingly retaining said receiver in open and closed positions, said spring also having its free end portion provided with a cup shaped depression having openings in its bottom wall whereby said spring may be manually actuated.

9. In combination a stationary wall having an opening therein, an ash container operative within said opening, a laterally extending member adjacent said opening attached to said wall, a spring attached to said container and having a contacting portion bearing resiliently against said stationary member, the free end portion of said

spring being extended and provided with an apertured well whereby it may be manually actuated out of contact with said laterally extending member to permit removal of said container from said opening.

10. In combination a stationary wall having an opening therein, an ash container operative within said opening, a stationary member adjacent said container having stop means thereon, a spring attached to said container to move therewith and resiliently contacting said stationary member, said spring having stop means cooperative with stops on said stationary member for yieldingly retaining said receiver in closed or open position, said spring also having a free end portion provided with an apertured well for manual operation thereof to permit removal of said container from said opening.

JOHN VISSER.