

May 7, 1935.

R. F. DE BOER

2,000,275

ASH RECEIVER

Filed June 11, 1934

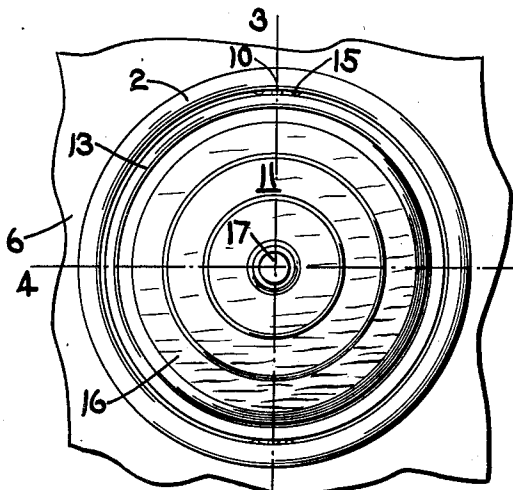


Fig. 1.

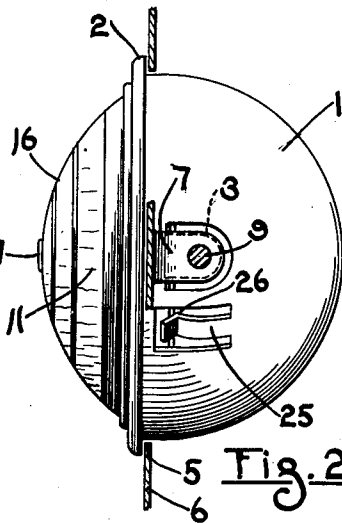


Fig. 2.

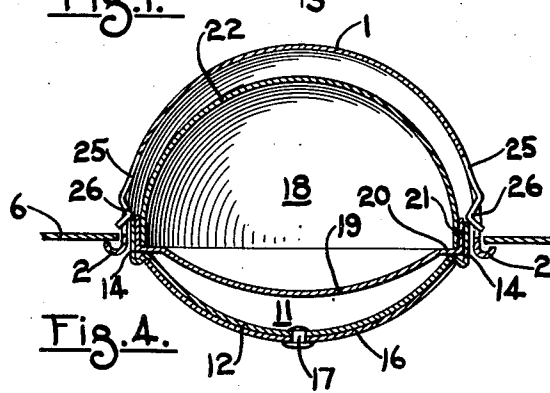


Fig. 4.

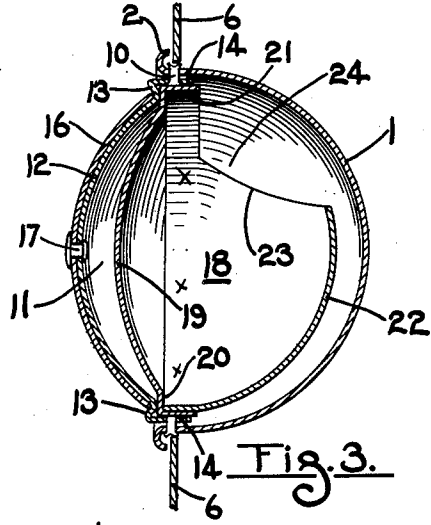


Fig. 3.

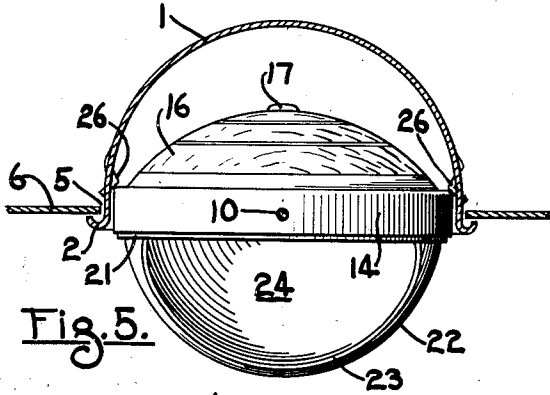


Fig. 5.

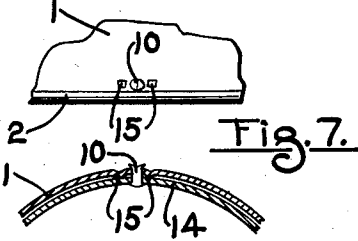


Fig. 7.

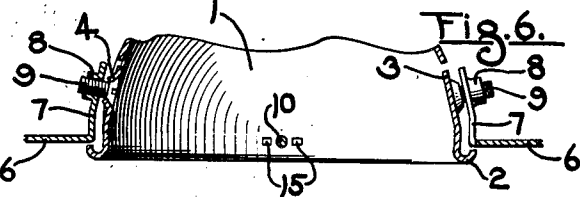


Fig. 6.

Fig. 8. Inventor
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UNITED STATES PATENT OFFICE

2,000,275

ASH RECEIVER

Rudolph F. De Boer, Grand Rapids, Mich.

Application June 11, 1934, Serial No. 729,979

11 Claims. (Cl. 206—19.5)

This invention relates generally to a container and to supporting means therefor and more particularly to an ash receiver mounted in an opening in a supported plate or supporting member and is especially intended for use in automobiles.

The primary purpose of the present invention is to produce an ash receiver which is easily swung to open position and when in its open position the container is very accessible and is easily removable for purposes of emptying.

One of the objects of my invention resides in the fact that when the receiver is in closed position the container is concealed and the opening therefore closed so that no smoke may escape therefrom and when in the closed position the container is out of sight and out of the way.

Another advantage of my invention resides in the fact that the receiver stays in the position in which it is placed and is yieldably held in its closed or open position.

Another advantage of the invention is that it is so constructed that it is easily installed, and easy to operate, and from a manufacturing standpoint it is very simple in construction, economical to manufacture and easy to assemble. The invention is also ornamental and attractive in appearance because of its particular shape and construction.

Another advantage of the invention is that it is mounted in such a manner that it will not mar the panel around it on which it is mounted.

An understanding of the invention and the simple and economical construction which has been produced may be had from the following description taken in connection with the accompanying drawing in which,

Fig. 1 is a front elevation of my invention in closed position.

Fig. 2 is a side elevation of the same with the supporting plate in section.

Fig. 3 is a vertical cross section on the line of 3—3 of Fig. 1 of the ash receiver in closed position.

Fig. 4 is a horizontal cross section on the line 4—4 of Fig. 1 with the receiver in closed position.

Fig. 5 is a plan view with the receiver in open position showing the outer shell and the supporting panel in cross section.

Fig. 6 is a fragmentary horizontal section through the panel and outer shell showing the mounting therefor.

Fig. 7 is a fragmentary plan view of the outer shell showing the pivotal mounting for the ash container, and

Fig. 8 is a vertical section through Fig. 7.

Similar numerals refer to similar parts throughout the several views of the drawing.

The invention consists of an outer semi-spherical shell 1 which at its front side is provided with a circular flange 2 in the form of a return bend. This outer shell is pierced at horizontally diametrically opposite sides to form ears 3. The ears 3 are provided with screw receiving openings 4 and have conical depressions to receive the screw heads.

This outer shell 1 is inserted through a circular opening 5 in a supporting plate 6, the supporting plate 6 having diametrically opposed ears 7 formed thereon. An opening is formed through the ears 7 by forming a screw threaded sleeve thereon. Flat head screws 9 pass through the openings 4 and the threaded sleeves 8 to hold the shell 1 in the opening 5 of the supporting plate in such a manner that the flange 2 is held spaced from the supporting plate 6. In most cases the supporting plate 6 will have a painted finish on it, therefore the flange 2 is held spaced from it to prevent the flange contacting with the plate which might cause chipping of the paint.

Mounted on the shell 1, in vertical alinement, are the pivot pins 10 on which the container support 11 is pivoted. This container support comprises a semi-spherical portion 12 and an outwardly extending portion 13 and terminates at its outer edge in the rearwardly extending circular band 14. Adjacent each of the pivot pins 10 are the indentations 15 which frictionally engage the band 14 to space the band properly from the inner side of the shell 1 and also to frictionally engage the band so that its pivotal movement will not be too free. The container support is also provided with a finished cover 16 which is of semi-spherical shape and fits directly over the semi-spherical portion 12 of the container support, the finished cover being held in place by the rivet 17.

The ash container proper, which is held frictionally within the container support, comprises a semi-spherical shaped back portion 19 which continues outwardly in the radial flat portion 20 and terminates at its outer edge in the rearwardly extending annular band portion 21. The outer surface of the band 21 and the inner surface of the band 14 frictionally engage each other to hold the ash container in its supported position. The ash container also has a rearwardly extending semi-spherical portion 22 which is cut away at its upper side as shown at 23 to form the opening 24 therein. The shell 22 is positioned within

the circular band 21 and is formed as an integral part therewith preferably by welding.

It will be noted that the semi-spherical or dome shaped portion 19 of the container is formed with a greater radius than that of the semi-spherical or dome shaped portion 12 of the container support whereby a space is provided between the domes whereby heat in the container, caused by hot ashes or lighted cigar or cigarette stubs, will not be transmitted to the decoratively finished surface of the finished cover 16 which would change the color of the decoration.

Means are provided for yieldably holding the ash container in either its closed or open position which is accomplished by piercing the outer shell 1 to form the positioning spring 25 thereon. The positioning spring is bent so that it has an inwardly extending engaging portion 26. When the container is in closed position the engaging portion 26 yieldably presses against the rearward edge of the bar 21 which has a tendency to hold the container in the closed position. When the container is in open position as shown in Fig. 5 the engaging portion 26 yieldably contacts the flange 14 adjacent the portion 13 tending to hold the container in its open position. This is very desirable in that when the receiver is mounted on an automobile considerable vibration is set up and it is desirable to have means provided to hold the container in the position selected.

To open the container, the container support 11 is pushed inwardly at either side of vertical center and the support will rotate, after enough pressure has been exerted to overcome the resistance of the springs 25. Further rotation will bring the ash container proper to an outwardly extending position where it is yieldably held by the springs 25 and where it is accessible for the reception of ashes, cigar and cigarette stubs and where it is accessible for removal for emptying. To empty the container it is easily removed from its pivoted support in which it is held by friction and by vacuum.

In the manufacture of the present invention only a few parts are required which are of simple shape and are easily stamped and assembled.

From the foregoing description it will be seen that an ash receiver has been constructed which, owing to its particular construction, is easily installed, easy to operate, simple in construction, economical to manufacture and is very ornamental and attractive in appearance.

Having thus described my invention, the particular construction which I claim as new is defined in the appended claims and which are to be considered comprehensive of all forms of structure coming within their scope.

I claim:

1. In an article of manufacture of the class described, a supporting plate having an opening therethrough, an ash receiver shell extending bodily through said opening and attached to said supporting plate, an ash receiver pivoted to said shell, and frictional means for suppressing the free pivotal movement of the ash receiver.

2. In an article of manufacture of the class described, a supporting plate having an opening therethrough, an ash receiver shell extending bodily through said opening and attached to said supporting plate, an ash receiver pivoted to said shell, and means for yieldably holding the pivoted receiver in selected pivotal positions.

3. In an article of the class described comprising, a shell, and a container support pivoted on said shell, detents extending inwardly from said shell to properly space the container support from the shell.

4. In a device of the class described having, a shell, a container support pivoted within said shell comprising a spherical portion, said spherical portion extending radially and having an outwardly extending portion and returning inwardly to form a band and an ash container mounted within said band on said container support.

5. An article of the class described comprising, a shell, a container support pivoted on said shell having an integral band therewith, an ash container having an integral band therewith, said ash container being mounted on said container support by inserting the band on the ash container within the band on the container support and being held in said relationship by friction.

6. An article of the class described comprising, a shell, a container support pivoted within said shell, and a container frictionally supported on said container support.

7. An article of the class described comprising, a container support having a decoratively finished surface, a container supported within the container support with said container spaced from the portion of the container support having the decorative surface.

8. An article of the class described comprising, a semi-spherical shell, a container support pivoted within said shell, said container support comprising a circular band and a dome, having a decorative finish, extending outwardly from one edge of the band, a container supported on said container support, said container comprising a circular band frictionally engaged within the band of the container support, and a dome extending from the corresponding edge of the band of the container and the radius of the dome of the container being greater than the radius of the dome of the container support whereby a space is provided between the two domes.

9. In an article of the class described, a supporting plate having a circular opening therethrough, a shell having a radial flange, larger than the opening in the supporting plate, extending therefrom, said shell being substantially semi-spherical in form of lesser diameter than the opening in the supporting plate, an ash receiver pivoted within said shell, said shell being mounted within the opening in the supporting plate with the flange thereon spaced from the supporting plate.

10. An article of the class described comprising a substantially semi-spherical shell, a container support pivoted on the vertical diameter of the shell, a container mounted on said container support, said container extending within the shell when pivoted to closed position and extending outside the shell when pivoted to open position.

11. An article as described in claim 10 being further characterized by means for yieldably holding the container and container support in open or closed position.

RUDOLPH F. DE BOER.

DISCLAIMER

2,000,275.—*Rudolph F. De Boer*, Grand Rapids, Mich. ASH RECEIVER. Patent dated May 7, 1935. Disclaimer filed August 31, 1938, by the assignee, *Applied Arts Corporation*.

Hereby enters this disclaimer to claim 7 of said patent in its entirety.
[*Official Gazette September 27, 1938.*]