Feb. 4, 1930. E. SCHROEDTER 1,745,769

ASH RECEIVER

Filed April 18, 1928

Fig. 1.

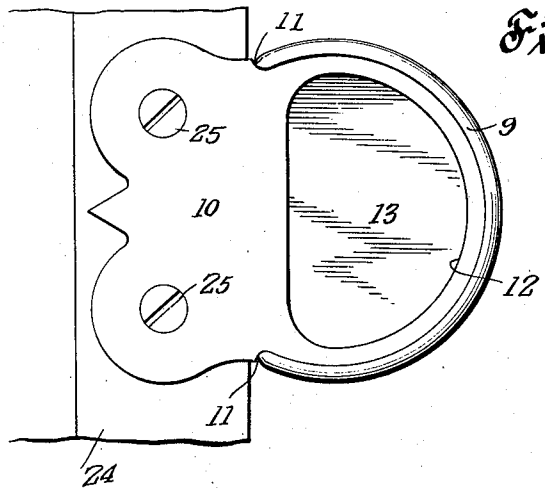


Fig. 4.

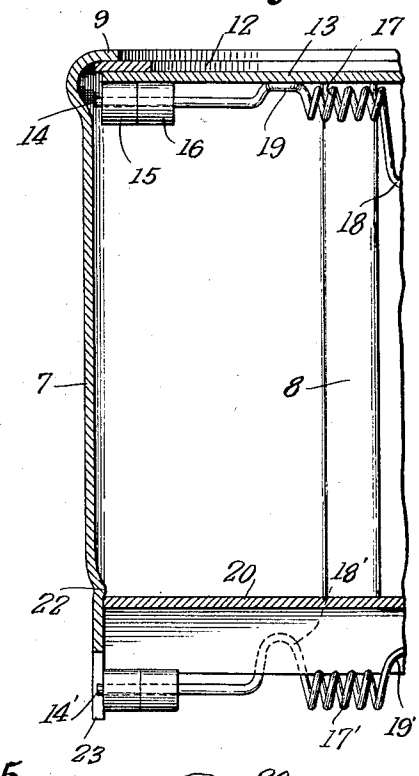


Fig. 2.

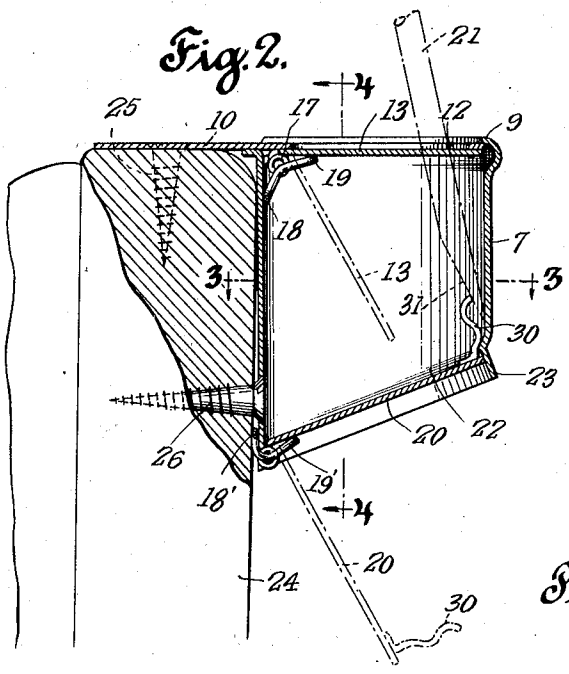


Fig. 5.

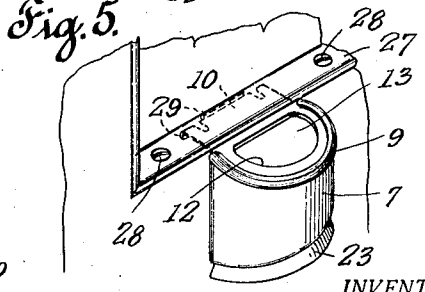
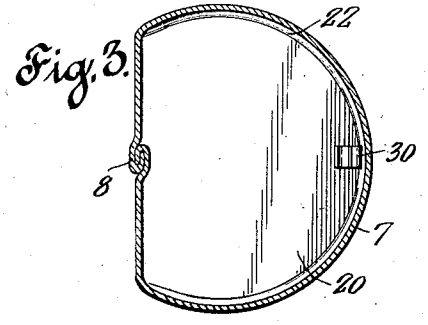


Fig. 3.



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UNITED STATES PATENT OFFICE

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ASH RECEIVER

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Special objects of the present invention are to provide a handy receptacle for cigarette ashes, chewing gum and the like, which may be readily mounted on the arm of a chair, the back of a theatre seat, on the window sill of an automobile or the like, in such a way that it cannot be removed by any unauthorized person, which may be easily and quickly emptied and which will be of a simple, attractive, durable form and relatively inexpensive.

The foregoing and other desirable objects are attained by certain novel features of construction, combinations and relations of parts as set forth in the following specification.

The drawing accompanying and forming part of the specification illustrates one of the practical embodiments of the invention and it should be understood that the structure may be modified in various respects without departure from the true spirit and broad scope of the invention.

Figure 1 in the illustration is a plan view of one of the ash receivers as applied to the back of a theatre chair or the like.

Figure 2 is a broken vertical sectional view of the receiver.

Figure 3 is a horizontal cross sectional view as on substantially the plane of line 3—3 of Figure 2.

Figure 4 is an enlarged vertical sectional view as on substantially the plane of line 4—4 of Figure 2.

Figure 5 is a part sectional detail illustrating attachment of the receiver to the window sill of an automobile body.

In the embodiment of the invention illustrated, the body of the receiver is in the form of a substantially half round tube 7, constructed of sheet metal with its edges rolled together in a permanently interlocked seam 8 at the back or flat side of the article. The upper end of this tubular body is shown at 9 as rolled over the edge of a flat top plate 10. This rolled-over lip, in the illustration, extends about the forward substantially half round edge of the top plate and into indentations 11 in the edge of the top plate so as to thereby permanently interlock the body and top plate together. If considered desirable, these parts may be soldered or brazed together or fastened in other suitable fashion.

The top plate is shown as having a substantially half round opening 12 therein approximating the outline of the body, which opening forms the mouth of the receptacle and is closed normally by a lightly tensioned door or closure 13, which as shown in Figure 2, is in the nature of a flap, making close contact with the under side of the top plate.

The closure 13 is held lightly closed by a spring hinge consisting in the illustration of a piece of spring wire, having straight end portions 14 engaged with hinge loops 15, 16 on the body and cover respectively, intermediate coiled portions 17 and laterally extending loops 18, 19 forming spring tensioned arms engaging the back and the under side of the cover respectively. This integral pintle and closure spring has the further advantage of enabling quick assemblage of the parts because after the cover is placed in position, the spring wire can be pinched together to foreshorten it so that the ends will enter between the hinge loops 16, after which when released it will expand to force the straight end portions through the hinge loops, thus serving to mount the cover and to place it under the necessary spring tension. This tension is preferably quite light so that the cover or closure flap will open downwardly to drop ashes therein by simply touching the cigar or cigarette against the top of the same. As soon as the pressure is released, the flap snaps closed and automatically maintains the receptacle in sealed condition.

The closing tension may be varied by twisting or untwisting the hinge spring more or less before it is mounted in the hinge serving relation. The discharge of the receptacle is effected, as indicated in Figure 2, by having the bottom 20 of the receptacle, also hinged and adapted to open downward when a suitable discharge "stick" 21 is passed down through the top. The hinge for the bottom may be of the same type as for the top flap, that is, a piece of spring wire having straight pintle portions 14′, spring coils 17′ and looped arms 18′, 19′, engaging the back and the under side of the bottom.

In its closed relation, the bottom may have an upward incline away from the hinge, substantially as indicated, so as to automatically slide matches and cigarette ends and the like back toward the widest part of the receptacle.

To determine the closed position and to properly seal the bottom, there is shown in the illustration, a shoulder in the form of a rib 22 indented on an upward incline about the forward or half round portion of the body. Tampering with this bottom closure is prevented by leaving a skirt 23 below the stop shoulder 22, which provides a guard preventing access to the edge of the bottom plate.

The receptacle opens readily to receive ashes, cigar or cigarette ends, gum, matches or the like, and keeps the contents sealed. The receptacle, however, can be instantly and completely emptied by use of a proper tool which will force down the flap and the bottom. To prevent malicious emptying of the receiver, a lock such as a spring clip or the like may be provided which will secure the bottom in closed position and can be released only by a special stick or tool designed to effect the release of such lock.

The receiver is shown as secured in place in Figures 1 and 2 on the back or arm of a chair or the like, by placing the rearwardly extending portion of the top plate over the support 24 and extending a screw or screws 25 through this portion of the top plate down into the support and by extending a screw or screws 26 through the back of the receptacle into the same support. The back screw, it will be noted, can be placed while the bottom is held open and when the bottom is closed, access to this screw is cut off so that even if the top screws are removed, the device will still be secured in place and only thus knowing how and having a proper tool to open the bottom, will a person be able to remove the receptacle.

In Figure 5 the device is shown secured in place by the engagement of the projecting portion of the top plate beneath the sill 27 of an automobile. To effect this mounting, it is only necessary to loosen one or more of the screws 28 holding the sill in place and then force up the sill sufficiently for entry of the top plate. For use in this relation, the inner edge of the top plate may be equipped with upturned or downturned lugs 29, or both, adapted to interlock over the upper or lower edges at the inside of the sill. This construction permits the receiver working loose and being forcibly withdrawn and the construction permits of the receiver being shifted along the sill one way or the other to suit the convenience of the driver.

The bottom closure may be tensioned relatively heavily as compared to the closure flap at the top so that it will remain securely closed against the weight of any trash that may be placed in the receiver, but if a securing catch is employed for holding the bottom closed, this extra tensioning may not be considered necessary and it is possible in fact that when using a safety catch such as the spring lock indicated at 30, the closing spring may be omitted or be as light as the upper spring so as simply to assist the attendant in swinging the bottom closed.

The spring lock or clip shown at 30, it will be seen, will snap over the internal shoulder 22 to secure the bottom closed tight and this catch can be released by a tool such as shown having a hook 31 or blade which on turning the tool will interlock with and pull back the catch. It will be seen that an ordinary dustpan or the like may be employed to catch the discharge of the receiver and that the attendant may quickly go from one receiver to the other, holding the dustpan in one hand and opening the receivers by a depressing and turning movement of the tool held in the other hand.

What is claimed is:

1. An ash receiver of the character disclosed comprising a receptacle with an opening in the top of the same and a mounting plate extending rearwardly from the upper portion of the receptacle, an inwardly opening self-closing closure flap for the opening in the top of the receptacle, a downwardly opening self-closing bottom for the receptacle and fastening means extending through the back of the receptacle into a support, said fastening means being accessible only when the bottom of the receptacle is in downwardly open position.

2. An ash receiver of the character disclosed comprising a receptacle with an opening in the top of the same and a mounting plate extending rearwardly from the upper portion of the receptacle, an inwardly opening self-closing closure flap for the opening in the top of the receptacle, a downwardly opening self-closing bottom for the receptacle, fastening means for securing the mounting plate engaged with a support and fastening means extending through the back of the receptacle into a support, the latter fastening means being accessible only when the bottom of the receptacle is in downwardly opened position.

3. An ash receiver of the character disclosed comprising a receptacle having an opening at the top to receive matches, cigarette ashes and the like and open at the bottom substantially the full internal dimensions of the receptacle, a lightly tensioned inwardly opening closure flap for the top of the receptacle and a downwardly opening self-closing, more heavily tensioned closure for the bottom of the receptacle and in line with the top closure to enable opening movement of the same by a tool inserted past the closure flap, said bottom closure fitting up

substantially entirely within the receptacle, so as to be housed therein and inaccessible for release at the bottom of the receptacle and a stop shoulder within the receptacle limiting the extent to which said more heavily tensioned bottom closure will be forced up into the receptacle.

4. An ash receiver comprising a receptacle having top and bottom closures hinged at the back of the receptacle and both swinging downwardly, the first to receive trash and the second to discharge the contents of the receptacle and means for securing the receptacle in supported position, said means being within the receptacle and accessible only when the lower closure is swung downward into open position.

5. An ash receiver comprising a receptacle open at the bottom and having an internal shoulder and a dependent skirt below said shoulder, a hinged closure for said bottom, said closure swinging upwardly inside said skirt and into engagement with the internal shoulder, whereby in the closed position the edge of said closure is protected and covered by said skirt.

6. An ash receiver comprising a top plate having a rearward mounting portion and a forwardly extending partly round portion with an opening therein, a tubular body dependent from said top plate and having its upper edge curled over the forward edge of the top plate, said top plate having indentations in rear of the forwardly extending rounded edge portion and the lip of the tubular body extending rearwardly into said indentations to thereby interlock the tubular body with the top plate.

7. An ash receiver comprising a receptacle having a downwardly opening lightly tensioned self-closing flap at the top, said flap by its position at the top of the receiver and the light tensioning of the same opening to the direct pressure of a cigar or cigarette thereagainst of discharging the ash into the body of the receiver and a downwardly swinging, self-closing more heavily spring tensioned discharge closure at the bottom of the receiver and means for retaining said bottom closure secured against accidental or unauthorized opening of the same.

In testimony whereof I affix my signature.

EDMUND SCHROEDTER.