

Oct. 31, 1933.

F. VOGELSANG

1,933,196

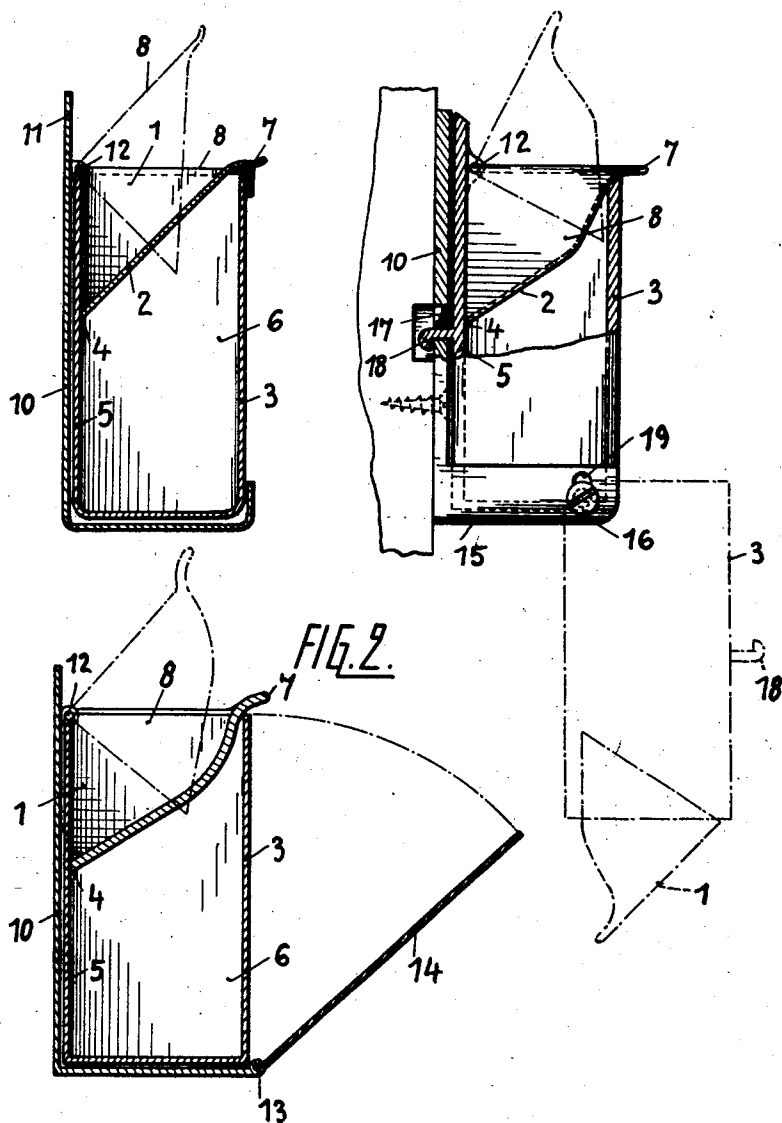
ASH TRAY

Filed July 29, 1929

2 Sheets-Sheet 1

FIG. 1.

FIG. 3.



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ATTY.

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2 Sheets-Sheet 2

FIG. 4.

FIG. 6.

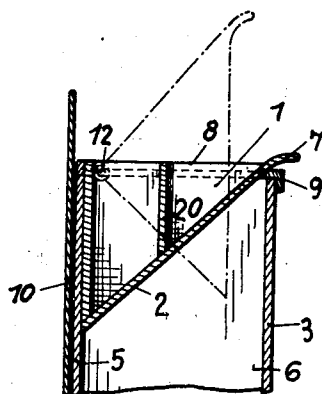
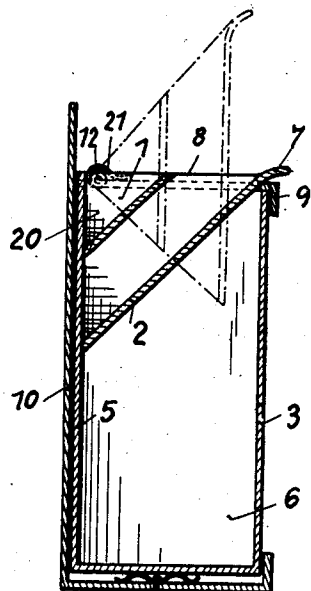


FIG. 7.

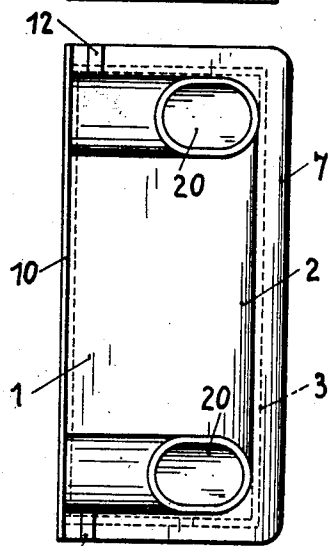
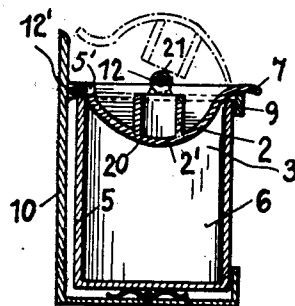


FIG. 5.

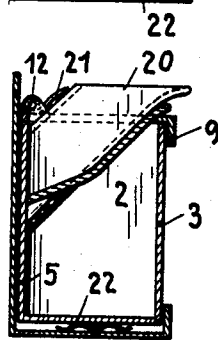


FIG. 8.

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UNITED STATES PATENT OFFICE

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ASH TRAY

Fritz Vogelsang, Berlin-Charlottenburg, Germany

Application July 29, 1929. Serial No. 381,825,
and in Germany July 30, 1928

3 Claims. (Cl. 206—19.5)

My invention relates to ash trays having a hinged receptacle at the top for the temporary reception of stumps and ash which closes the tray and is dumped in order to drop its contents into the tray.

It is an object of my invention to improve a tray of this type.

To this end I so design the bottom of the receptacle that in the closing position it makes an acute angle with the rear wall of the tray to which it is applied by gravity or spring pressure.

It is another object of my invention to provide a suitable combination of an extinguishing tube or tubes with the receptacle and to this end I so arrange the tube or tubes that it is dumped together with the receptacle. I may provide a tube or tubes for independent dumping but still the tube, though it may be dumped separately without dumping the receptacle at the same time, is dumped automatically with the receptacle.

With the bottom of the receptacle, which may be straight, broken or curved, at an acute angle to the rear wall of the tray, the ash and stumps will collect in the apex of the angle and cannot be ejected if the ash tray is subjected to considerable jolting, as in motor cars.

In the accompanying drawings examples of ash trays having receptacles with and without tubes, are illustrated by way of example.

In the drawings

Figs. 1 to 3 illustrate trays without tubes in their receptacles.

Fig. 1 is a sectional elevation of a tray held in a holder by a catch which engages the tray at the top.

Fig. 2 shows a tray, a holder without the catch but with a hinged front plate,

Fig. 3 shows, partly in section, a holder without the catch but with the tray hinged thereto.

Fig. 4 is a sectional elevation of a modified constructional form with extinguishing tubes,

Fig. 5 is a plan view, of a tray having two parallel extinguishing tubes at either side,

Fig. 6 is a part sectional elevation showing a receptacle with a modified arrangement of extinguishing tube,

Fig. 7 is a sectional elevation of a tray having its receptacle, with the tube, hinged about a central pivot, and

Fig. 8 is a sectional elevation of a tray having an extinguishing tube which is dumped independently of the receptacle.

Referring now to the drawings, and first to

Fig. 1, 10 is holder which may be secured to a door or other part of a motor car or the like by a pin in a hole 11, or may be made to stand on a table, 12 is a hinge at the rear wall of the holder 10, 9, is a frame or catch which is adapted to bear on the top of the tray 3 by gravity or under the action of a spring 21, Fig. 4, and 22 is a spring on the bottom of the holder, as also shown in Fig. 4, which counteracts the pressure of the spring 21 so as to hold the tray 3 firmly against the catch 9.

The same type of holder 10, with the catch 9, has been shown in Figs. 4 to 8.

Referring now again to Fig. 1, 8 are the side walls, and 2 is the bottom, of the receptacle 1. The side walls 8 are hinged at 12, as is the catch 9. 7 is a check at the front side of the receptacle which in the closed position of the receptacle rests on the catch 9. In this position the rear edge 4 of the bottom 2 abuts against the rear wall 5 of the tray 3, and makes with it an acute angle, for the purpose specified. The side walls 8 project above the edge of the tray, and, with the handle 7, close it.

When it is desired to dump the receptacle 1, the handle or check 7 is raised to move the receptacle into the position illustrated in dotted lines in which it drops its contents into the cavity 6 of the tray 3.

For removing the tray, the catch 9 is raised. Referring now to Fig. 2, the catch 9 has been dispensed with so that the receptacle 1, with its handle 7, bears directly on the top of the tray 3. The bottom 2 is here shown partly straight and partly curved. 13 is a hinge at the lower front edge of the holder 10, and 14 is the front wall of the holder which is turned on the hinge for taking out the tray 3.

Referring now to Fig. 3, 15 is a bracket at the lower end of the holder 10 to which the tray 3 is hinged by pins 16 in slotted holes 19, 17 is a recess in the rear wall of the holder 10, and 18 is a hook on the tray 3 engaging the hole which is extended upwardly.

When it is desired to empty the tray 3, it is first raised to disengage the hook 18, and then dropped about the pins 19 as shown in dotted lines. The receptacle 1 is so weighted that its check 7 bears on the top of the tray 3 so as to rest on the tray in the normal position but so as to open automatically when the tray is upset, dotted lines. When the tray is replaced the receptacle returns to its normal position.

Referring now to Figs. 4 and 5, the receptacle

is arranged as in Fig. 1 but provided with extinguishing tubes 20 at either side for the reception of stumps. The tubes as shown in Fig. 4 extend in parallel to the bottom 2 of the receptacle and their openings are closed by its rear wall 5. When the receptacle is dumped the stumps from the tubes 20 are dropped into the cavity 6.

Referring now to Fig. 6, this shows the tubes 20 at an angle to the bottom 2 of the receptacle which is preferably such that the tubes extend in parallel to the rear wall 5 of the tray 3. In this case the tubes are secured to the catch 9, or hinged about 12 so that they are independent of the bottom 3, and the stumps in the tubes will slide out when the receptacle is turned into the dotted-lines position. As the tubes move with the catch 9, or may be turned on its hinge, they do not interfere when the tray 3 is to be removed.

Referring now to Fig. 7, the hinges 12 for the receptacle 1 are here arranged at the centre of the catch 9. The catch or frame 9, is in this form hinged at 12' to the holder 10. The receptacle is here trough-shaped, with the end opposite the check 7 abutting below a shoulder 5' on the rear wall 5 of the tray 3. The extinguishing tubes 20 are open at the top and are integral with, or secured to, the bottom 2 at their lower ends. When the receptacle is moved into the position shown in dotted lines the tubes are dumped.

Referring now to Fig. 8, each tube 20 is hinged independently of the receptacle 1 so that they may be dumped separately but are dumped automatically with the receptacle.

It will be understood that in all modifications illustrated the full section of the tray is available for the contents of the receptacle 1 and of the tubes 20, and that any liability to soiling is eliminated.

I claim:

1. In an ash tray, a holder supporting the ash

tray, a receptacle pivotally mounted within said tray, so as to close or to clear the open end of the tray, said receptacle having an inclined bottom, a frame pivotally mounted on said holder and engaging the upper edge of the tray, a forward extension on said receptacle which forms a check resting on said frame, when said receptacle is in its closed position, and extinguishing tubes arranged within said receptacle, so as to be closed by the inclined bottom of the receptacle.

2. In an ash tray, a holder supporting the ash tray, a receptacle pivotally mounted within said tray, so as to close or to clear the open end of the tray, said receptacle having an inclined bottom, a frame pivotally mounted on said holder and engaging the upper edge of the tray, a forward extension on said receptacle which forms a check resting on said frame, when said receptacle is in its closed position, and extinguishing tubes arranged within said receptacle, so as to be closed by the inclined bottom of the receptacle, the axis of said tubes being parallel to the inclined bottom of the receptacle.

3. In an ash tray, a holder supporting the ash tray, a receptacle pivotally mounted within said tray, so as to close or to clear the open end of the tray, said receptacle having an inclined bottom, a frame pivotally mounted on said holder and engaging the upper edge of the tray, a forward extension on said receptacle which forms a check resting on said frame, when said receptacle is in its closed position, and extinguishing tubes arranged within said receptacle, so as to be closed by the inclined bottom of the receptacle, said extinguishing tubes being pivotally mounted within said receptacle, so as to be adapted to be swung either independently of or together with said receptacle.

FRITZ VOGELSANG.