Oct. 25, 1927. 1,647,006

S. KIRZNER

ASH TRAY

Filed March 22, 1927

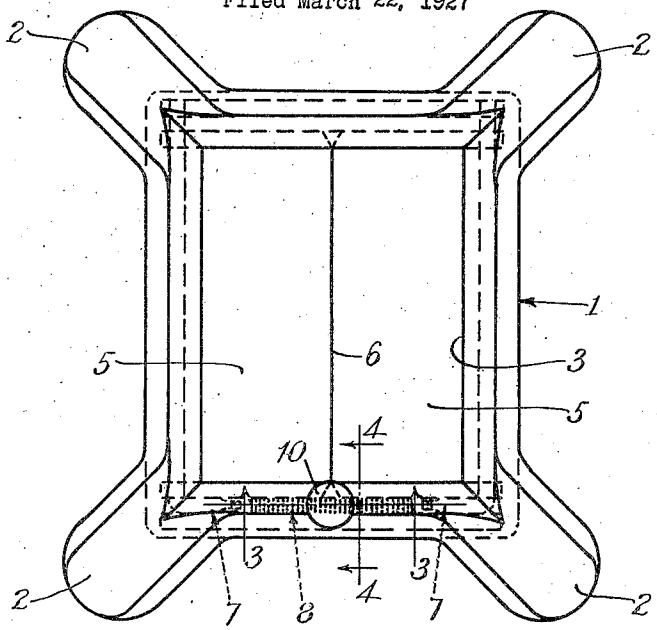


Fig. 1.

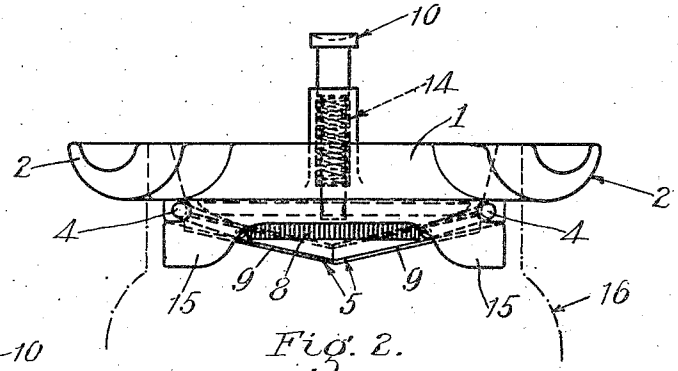


Fig. 2.

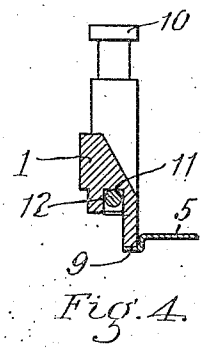


Fig. 4.

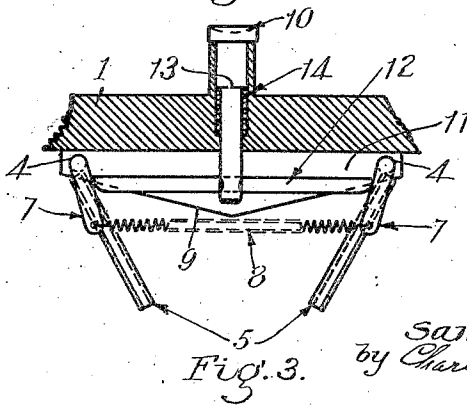


Fig. 3.

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UNITED STATES PATENT OFFICE.

SAMUEL KIRZNER, OF MALDEN, MASSACHUSETTS.

ASH TRAY.

Application filed March 22, 1927. Serial No. 177,406.

This invention relates to an ash tray and particularly to a type of tray utilized by smokers as a support for cigars and cigarettes and to receive the ashes therefrom.

The object of the invention is to provide a novel device of the character set forth, together with a mechanism for dumping the ashes through the bottom of the tray.

The invention consists in an ash tray as set forth in the following specification and particularly as pointed out in the claims thereof.

Referring to the drawings:—

Fig. 1 represents a plan view of an ash tray embodying my invention.

Fig. 2 represents an end elevation of the tray.

Fig. 3 is a detail vertical section taken on the line 3—3 of Fig. 1.

Fig. 4 is a detail vertical section taken on the line 4—4 of Fig. 1.

Like numerals refer to like parts throughout the several views of the drawings.

In the drawings, 1 represents a body portion, preferably rectangular in form and having rests 2 for cigars or cigarettes located at diagonally opposite corners thereof. The body portion 1 has a rectangular opening 3 extending entirely therethrough, and pivotally mounted at 4 upon opposite sides of said opening, adjacent to the bottom of said body portion, are a pair of bottom members 5 which normally close said opening.

The bottom members 5 are separable at 6, midway between oppostie sides of the body portion 1, and the adjacent edges of said bottom members abut one against the other when said members are in their closed position. The pivot members 4 of each of the bottom members 5 are extended at one end thereof to form arms 7, the latter being bent at right angles to the axis of said pivots, and the extremities of both of said arms are connected together by a spring 8, the latter acting to pull the extremities of the arms toward each other and hold the bottom members in their normal or closed positions, at which time the upper surface of said bottom members will be in engagement with the inclined lower edge of a rib 9 which is formed upon the under side of the body portion 1.

The bottom members 5 are operated to dump ashes which are confined within the body portion 1, and which rest upon said bottom members, by a plunger 10 which is slidably mounted upon said body portion. The lower end of the plunger 10 projects into a groove 11 which is provided in the under surface of said body portion, and a rod 12 is rigidly fastened in said plunger and extends longitudinally within said groove, the opposite extremities thereof being positioned to engage the arms 7 of the pivots 4 when said plunger is pushed downwardly, thereby forcing the lower extremities of said arms apart against the tension of the spring 8, and causing the bottom members 5 to be opened downwardly. The diameter of the rod 12 is approximately the width of the groove 11, and said rod is confined within said groove during its vertical movement.

A shoulder 13 is formed upon the plunger 10, and a spring 14 surrounds the shouldered portion of said plunger and acts to raise the latter when pressure has been removed therefrom, thereby causing said plunger to return to its normal position.

As the plunger 10 is returned to its normal position, the bottom members 5 are permitted to close under the action of the spring 8.

The body portion is provided with a plurality of legs 15 which are utilized when the tray rests upon a table, but preferably the tray rests upon the top of a suitable receptacle 16, which is represented by dotted lines in Fig. 2, and when so used, the ashes when dumped drop into said receptacle.

I claim:

1. An ash tray having, in combination, a body portion, bottom members pivotally mounted upon opposite sides thereof and separable therebetween, a plunger mounted in said body portion, and means fast to said plunger and operatively connected to the pivots of said bottom members, whereby the latter may be swung downwardly to open the same.

2. An ash tray having, in combination, a body portion provided with an opening extending therethrough, bottom members pivotally mounted upon opposite sides thereof and closing said opening, said bottom members being separable midway between said sides, a plunger yieldingly mounted in said body portion, and means fast to said plunger and operatively connected to the pivots of said bottom members, whereby the latter may be swung downwardly.

3. An ash tray having, in combination, a body portion, bottom members pivotally mounted upon opposite sides thereof and sep-

arable therebetween, the pivot of each bottom member having an arm at one end thereof, a plunger yieldingly mounted in said body portion, and means fast to said plunger adapted to slidably engage said arms, whereby said body members may be swung downwardly to open the same.

4. An ash tray having, in combination, a body portion, bottom members pivotally mounted upon opposite sides thereof and separable therebetween, the pivot for each bottom member having an arm at one end thereof, a plunger mounted in said body portion, means fast to said plunger adapted to slidably engage said arms, whereby said bottom members may be swung downwardly to open the same, means to return said plunger to its normal position, and means to close said bottom members.

5. An ash tray having, in combination, a body portion provided with a groove in the under side thereof, bottom members pivotally mounted upon opposite sides of said body member and separable therebetween, the pivot of each bottom member having an arm at one end thereof, a plunger yieldingly mounted in said body portion, means fast to said plunger and positioned within said groove adapted to slidably engage said arms, whereby said bottom members may be swung downwardly to open the same, and means to close said bottom members.

6. An ash tray having, in combination, a body portion provided with a groove in the under side thereof, bottom members pivotally mounted upon opposite sides of said body member and separable therebetween, the pivot of each bottom member having an arm at one end thereof, a plunger mounted in said body portion, a rod fast to said plunger and positioned within said groove adapted to slidably engage said arms, whereby said bottom members may be swung downwardly to open the same, means to return said plunger to its normal position, and means to close said bottom members.

In testimony whereof I have hereunto set my hand.

SAMUEL KIRZNER.