

UNITED STATES PATENT OFFICE

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ASH TRAY

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This invention relates to ash trays, receptacles or the like, the primary object of the invention being to provide an ash tray or receptacle which will be a permanent part of the table, chair arm, or other furniture with which the device is used.

An important object of the invention is to provide a tray of this character which will be invisible when not in use, and one which may be readily and easily brought into use.

Another object of the invention is to provide a tray or receptacle which will be held in an unright position at all times, and one which cannot be knocked over to spill the contents thereof.

With the foregoing and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

Referring to the drawing:

Figure 1 is a fragmental elevational view showing an ash tray of this character used on a table, the ash tray being in its active position.

Figure 2 is a plan view thereof.

Figure 3 is an enlarged transverse sectional view through the ash tray, in its inactive position.

Figure 4 is a bottom plan view of a modified form of the invention.

Figure 5 is a transverse sectional view thereof.

Referring to the drawing in detail, the reference character 5 designates a table top with which the ash tray is used, the table top being supplied with a cut out portion of a diameter to receive the tray in such a way that a comparatively close fit will be provided between the tray and table top, rendering the tray unnoticeable when not in use.

Fitted within the opening, is a ring 6 which is constructed to provide an annular shoulder 7 and a downwardly extended flange 8, the flange 8 being formed with op-

positely disposed openings to receive the tubular housings 9 in which the plungers 10 move, the plungers being provided with rounded ends, to fit within rounded openings formed in the tray proper, indicated by the reference character 11. The outer ends of the tubular housings 9 are turned inwardly defining stops to be engaged by the heads 12 of the plungers 10, to restrict movement of the plungers 10, under the action of the coiled springs 13 which are positioned within the housings 9, and tend to urge the plungers 10 inwardly towards the tray 11. The tray 11 is provided with depressions to receive the inner ends of the plungers 10, as clearly shown by Figure 3 of the drawing. The tray 11 may be constructed of any suitable material, and as shown is provided with an annular extension 14 adapted to rest against the offset portion 7 of the ring 6, to restrict inward movement of the ash tray, and hold the bottom of the ash tray in a position flush with the top of the table or furniture in which the tray is positioned.

The ash tray is shown in Figure 3 of the drawing, as in its inverted position, the bowl portion 15 thereof being at the bottom. A finger piece indicated by the reference character 16 is formed on the bottom of the tray 11, and affords means whereby the tray may be lifted from the opening in the table top or furniture, and inverted, or moved to its active position.

Suitable rests such as indicated by the reference character 17 are formed on the bowl, and receive cigarettes, cigars or the like used by the smoker.

It will of course be understood that the construction of the plungers 10 is such that by exerting a pull on the finger piece 16, the tray may be moved upwardly, the plungers 10 moving inwardly.

To position the body portion 11 as an ash receiver, the body portion is withdrawn from the opening in which it is normally held, and the body portion 11 is positioned so that the annular extension 14 thereof rests on the shoulder 7, the body portion taking a position as shown by Figure 1 of the drawing.

In the form of the invention as shown by

Figures 4 and 5 of the drawing, the tray is of the pivoted type, and embodies a supporting ring 18 which is of a diameter to closely fit within the opening formed in the table or support for the tray, there being provided securing screws 19 that are embedded in the support, for securing the ring in position. Openings 20 are formed in the ring member 18 and provide bearings for the pintles 21 that extend from the ash receiver 22, which is formed with a flat bottom and a depression 23, the depression providing the bowl of the receiver.

As shown, the side of the receiver 22 is curved as at 24, to permit the receiver to swing on the pintles 21, to the end that the receiver may be swung from its active to its inactive position, or vice versa.

Tubular housings 25 form a part of the ring 18, and accommodate the coiled springs 26 which bear against the plungers 27, to urge the plungers inwardly, to engage depressions formed in opposite sides of the receiver 22. By pressing at either side of the receiver 22, it will be obvious that the receiver will swing on the pintles, in a manner as described.

It is believed that in view of the foregoing detail description, a further detail description as to the operation of the device is thought to be unnecessary.

I claim:

In an ash receiver, a ring member fitted in an opening of a support, said ring member having a flange formed with an offset portion providing a shoulder, said flange having openings to receive securing screws, lateral housings formed on the ring member, said ring member having openings adjacent to the housings, spring pressed plungers mounted within the housings, and extended through the openings, a circular tray having an annular extension to contact with the offset portion of the ring member to secure the tray in position, said tray having openings to receive the plungers to hold the tray within its support.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

THOMAS R. MOSS.