Sept. 26, 1933. K. A. WINDESHEIM 1,928,041

POCKET ASH RECEPTACLE AND EXTINGUISHING DEVICE

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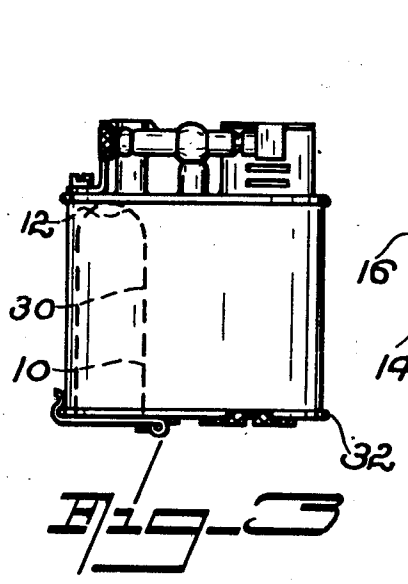


Fig. 3

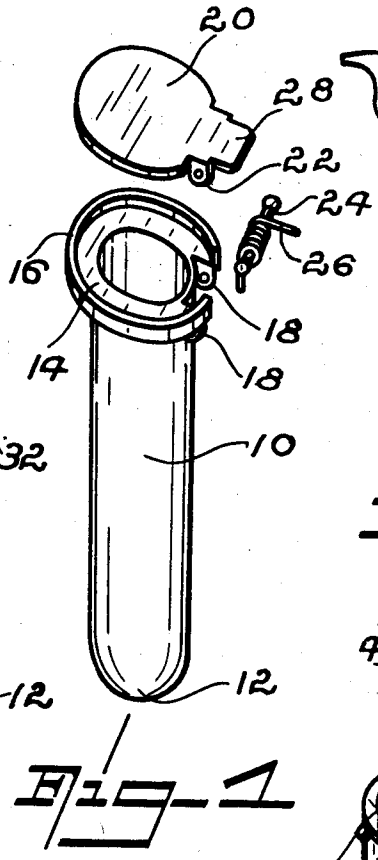


Fig. 1

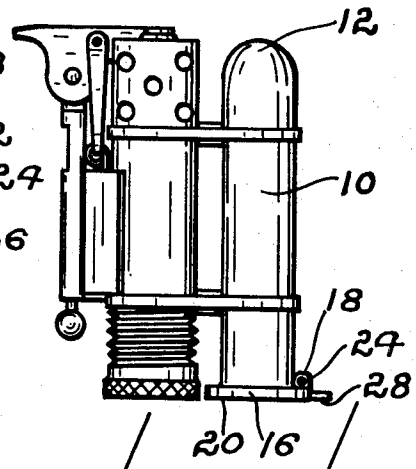


Fig. 2

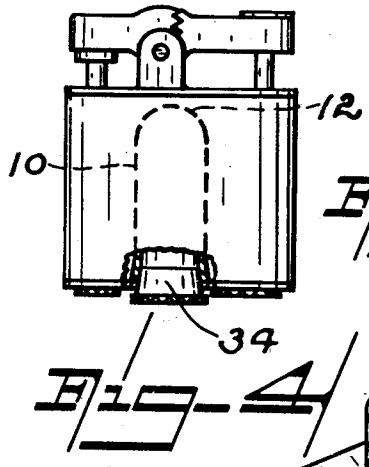


Fig. 4

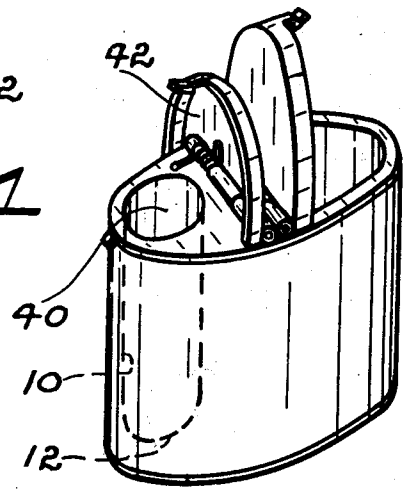


Fig. 6

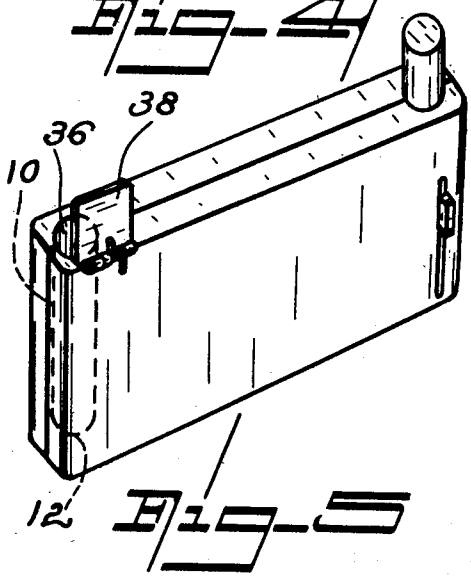


Fig. 5

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POCKET ASH RECEPTACLE AND EXTINGUISHING DEVICE

Karl A. Windesheim, Seattle, Wash.

Application January 29, 1932. Serial No. 589,691

1 Claim. (Cl. 206—37)

My present invention relates to the art of smoker's accessories and more particularly to a pocket ash receptacle and extinguishing device.

Smokers of cigarettes and cigars are being constantly embarassed and inconvenienced through the lack of ash trays in certain places. The average smoker objects to scattering ashes about, yet in many instances there is no available disposal means for the same. Then after the cigarette or cigar has been smoked, there is no way of disposing of the butt left. Under such circumstances smokers often resort to endeavoring to snuff out the burning tobacco and then dispose of the butt by carrying it to some place of disposal.

It is to provide means for overcoming this undesired condition that I have provided my pocket ash receptacle. It eliminates the mechanism of snuffing out a cigarette in the usual way, it eliminates the fire hazard of unextinguished cigarettes. It offers a quick, convenient snuffer for cigars and cigarettes, and it avoids the necessity of throwing ashes on the floor, or putting them in the trousers' cuff or employing other unsatisfactory make-shift disposal means.

The principal object of my invention therefore is to provide a pocket ash receiver, which is of small size and can be quite conveniently carried about.

A further object of my invention is to provide snuffing means for extinguishing cigarettes and the like.

A further object is the provision of a device of this character which by means of a tight fitting cover will permit the carrying about of ashes of cigar and cigarette butts for long periods without any objectionable odor being given up therefrom until they can be properly disposed of.

A further object is the provision of my ash receiver in a simple compact form which will lend itself into ready combinations with other devices such as cigarette and cigar lighters, matchboxes, cigarette cases and the like.

Other and more specific objects will be apparent from the following description taken in connection with the accompanying drawing, wherein

Figure 1 is a perspective view showing the essential elements of my ash receiver, as a means of more clearly illustrating the same, I have shown the cover, the hinged pin and the cover seating spring as being slightly removed from their normal positions.

Figures 2, 3 and 4 show my ash receiver in combination with three of the more common types of cigarette lighters.

Figure 5 illustrates my device in combination with a cigarette or cigar case.

Figure 6 illustrates my ash receiver as employed in combination with a match box or other storage receptacle for small objects.

Referring to the drawing, throughout which like reference characters indicate like parts, 10 designates the storage chamber of my device. This I normally prefer to make in cylindrical form and to provide the same with a rounded bottom as shown at 12 to the end that it may be easier cleaned. In many instances, however, it may be desirable to make chamber 10 elliptical or oval shaped in cross section, particularly is this desirable when installations are made in combination with flat objects.

Disposed at the open end of chamber 10, is a closing arrangement. This may be any form found convenient in the pocket bottle, by that is meant where the ash receiver is provided as a separate unit. I have found the form illustrated in Figure 1, probably the most generally satisfactory. This consists of a flange as 14 having upturned rim at 16. Pivotably secured to the downturned lug members 18, which are normally formed as part of the flange 14, I provide the cover proper 20. This is provided with downwardly extending lugs 22 which form the attaching means which in co-action with the pivot pin 24 secure cover 20 to the ash receiver. It is very desirable to provide means for retaining the cover closed at all times. Any of the various types of spring mechanism might be used, although it has been found most convenient to coil about pin 24 the helical spring 26, having one end of the same disposed to engage the ash receiver proper, and the other end disposed to engage the cover 20 in a manner to constantly urge it into the closed position. In this connection it has been found desirable to have an outwardly extending finger grip 28. This provides a convenient means for engaging spring 26, and at the same time provides an easy finger rest on lever for opening the ash receptacle.

In Figure 2 I have shown my ash receiver as indicated in Figure 1 secured to that type of cigarette lighter normally referred to as the wind-proof lighter. In Figure 3 I have shown a well known imported type of cigarette lighter in which my ash receiver is incorporated, this same being shown in dotted outline at 30. In this installation it has been found desirable to employ a little different type of closure, the de-

tails of which will no doubt be clearly observed in Figure 3. This is largely because the type of lighter shown is provided with an outstanding bead as 32.

In Figure 4 I have illustrated a still different form of cigar lighter in which my device is most easily seated in the central portion, and as it is not convenient in such an installation to use a hinged cover I have indicated a plug-like closure 34 having tapering sides which are formed at a relatively small angle so as to seat the plug friction tight. In Figure 5 I have illustrated a still further adaptation of my device in that the same is incorporated with a standard type of ejector cigarette case. I have indicated the ash receptacle at 36 and provide a hinged cover at 38, although in many instances I have found that the taper plug closure as indicated in Figure 4, often is more desired in such an installation. Figure 6 illustrates a still further modification and installation of my device, the same being illustrated at 40 and being provided with a tight seating hinged cover 42.

Method of operation

When it is desired to use my ash receptacle as in the smoking of a cigarette or cigar all that is necessary is for the user to open the closing cover and deposit the ashes into the tube 10. Let us assume, however, that after the user has smoked a portion of his cigarette it becomes desirable to extinguish the same. All that is required is that the cigarette or cigar be deposited wholly within tube 10 and the cover closed. At this point attention is invited to the necessity of having cover 20 substantially air tight. The cigarette or cigar, however, should be entered into tube 10 with the lighted end entered foremost. In this way the coals on the end of the cigarette quickly use up the available oxygen in the restricted tube and they are extinguished almost immediately, in fact extended tests have shown that from three to ten seconds are all that is ever required.

It should be borne in mind that it is not necessary to have a cover on the receptacle in order to extinguish the coals of a burning cigarette or cigar. This is accounted for by the fact that the product of combustion, carbon-dioxide, is heavier than air, consequently if the receptacle is held in an upright position the carbon-dioxide will form a smothering gas which will snuff out the coals completely and due to its high specific gravity, air will not infiltrate into it, and promote any further combustion.

There is a decided advantage in thus quickly extinguishing cigarette or cigar. This method is such that the cigarette or cigar can be again relit without any of the bitterness that is usually present in a cigar or cigarette on the second lighting. It appears that when a cigar or cigarette is allowed to go out, it is quenched usually by the dampness contained within the butt. This causes a more or less acid condition which when relit is very objectionable, however, when the extinguishing is accomplished by suffocation, this undesired condition is entirely eliminated.

When it is desired to carry the extinguished stub of the cigarette or cigar, it is then very desirable to have a tight fitting cover as there are many fumes given off and if the same were allowed to escape they would soon permeate the pocket or handbag of the user.

In the various views I have indicated my ash receiver in the scale such as would be used for cigarettes. When the same is to be used for cigars, it would necessarily need be larger in diameter and if it were to be used for snuffing and storing cigars for relighting, then it would of course, have to be long enough to take the type of cigar, the smoker is in the habit of using. This snuffing action of my ash receptacle results in considerable economy, particularly to the person accustomed to smoking expensive cigars or cigarettes.

The foregoing description and the accompanying drawing are believed to clearly disclose a preferred embodiment of my invention but it will be understood that this disclosure is merely illustrative and that such changes in the invention may be made as are fairly within the scope and spirit of the following claim.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent is:—

The combination in an ash-receptacle having an integral, horizontal outwardly extending annular flange and an upright rim on the flange, said flange and rim having a cut-away portion and a pair of spaced integral perforated lugs at the sides of said cut-away portion, of a cover having a complementary pair of perforated ears, a pivot pin passed through said ears and lugs, a spring coiled about the pin for holding the cover against the flange within the rim, and a finger-grip extension on the cover projecting from between the ears and forming a lever for use in opening said cover against the tension of the spring.

KARL A. WINDESHEIM.