Oct. 8, 1935. K. RETTICH 2,016,560

ASH RECEIVER

Filed Jan. 7, 1933

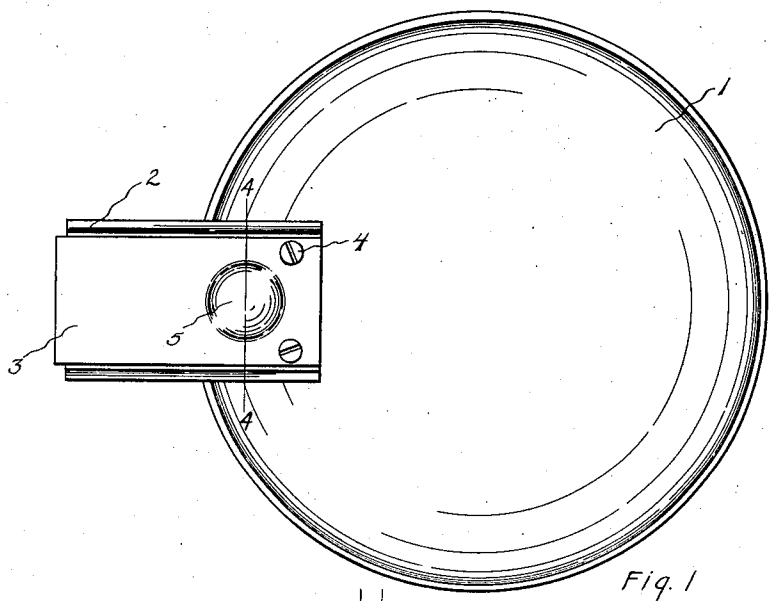


Fig. 1

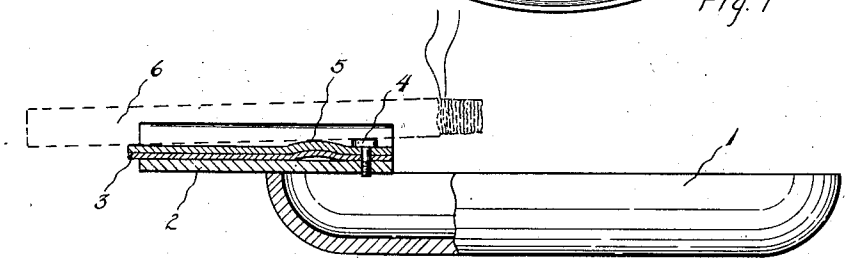


Fig. 2

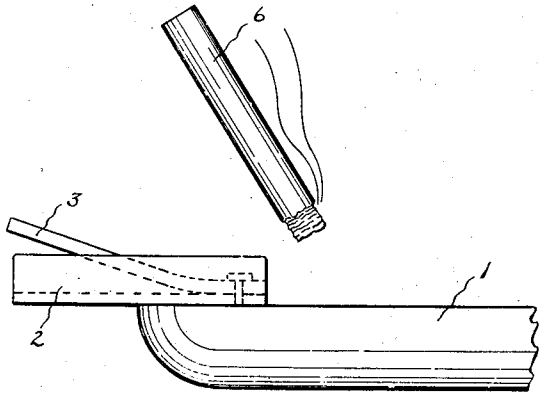


Fig. 3

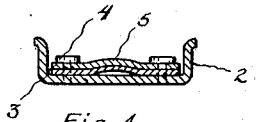


Fig. 4

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ASH RECEIVER

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9 Claims. (Cl. 131—51)

The present invention relates to an improvement in ash receptacles and the like and has as its principal object the regulating of supporting means for cigars and cigarettes usually associated with such articles.

Herebefore, supports of the above character, upon which the smoker rests his unfinished cigarette or cigar, for the sake of appearance and convenience are of considerably less over-all length than the tobacco product and such product must be initially supported intermediate the ends thereon. As the lighted tobacco product burns inwardly, it is not at all uncommon to have the opposite unlighted end, protruding beyond the support, overbalance the lighted end with the result that the cigar or cigarette will fall upon the furniture or rug below the support causing considerable damage.

Thus it becomes the object of the present invention to provide a thermo-sensitive support for ash receivers which will deposit the burning tobacco product in the receiver after inwardly burning has progressed beyond a predetermined point. This is accomplished in the preferred embodiment illustrated by a support comprising a strip of thermostatic metal secured at the inner end and having a zone thereof deflected upwardly to effect an upward snapping action of the outer end upon being subjected to the heat of the burning tobacco product.

In the accompanying drawing wherein one possible form my invention may assume is disclosed for the purpose of illustration,

Fig. 1 is a plan view.

Fig. 2 is a side elevation with a portion thereof shown in broken cross section.

Fig. 3 is a side elevation illustrating the snapping action of my improved support.

Fig. 4 is a cross sectional view taken on line 4—4 of Fig. 1.

Having reference to the drawing, an ash receiver 1, of any suitable construction, has associated therewith a support 2. This support, includes, as a part thereof, a superimposed thermo-sensitive bi-metal strip 3, well known in itself, secured to the support 2 at one end by suitable fastening means 4. The differential expansion in the strip 3 is such that the free end thereof will be deflected upwardly upon temperature increases. Although I do not wish to be limited to any particular construction of the strip 3, preferably, the strip is cupped or otherwise deflected upwardly as at 5 to effect a sudden snapping action of the outer free end of the strip upon substantial increase of temperature adjacent the deflected section. Obviously, if the ash receiver is sufficiently deep, the gradually upward deflection of the outer end of the strip 3 will be sufficient to deposit the supported tobacco product in the receiver and the snapping action produced by the cupping of the strip may be dispensed with.

As shown in Figs. 2 and 3, the burning cigarette 6, or the like, is supported intermediate its ends upon the support 2. Upon continued inward burning of the cigarette to adjacent the section 5, the heat from the burning end will result in a sudden reversed buckling of that particular section which will snap the outer free end of the strip 3 upwardly flipping the cigarette 6 into the ash receiver as shown in Fig. 3. Upon cooling the strip 3 will return to the position shown in Fig. 2.

Obviously, the thermo-sensitive strip 3 may constitute the sole support for the tobacco product with the elimination of the support 2. Also, it is not necessary that the support for the tobacco product be located above the ash receiver for if it is desired the strip 3 may be employed to flip the tobacco product up into the receiver.

Having described my invention, it will become apparent that obvious changes and modifications will occur to those skilled in the art. For this reason, I do not desire to be limited to the exact details of construction shown and described but intend to include as part of my invention such changes and alterations as fall within the scope of the appended claims.

What I claim as new and desire to protect by Letters Patent is:

1. In combination, an ash receiver, and a support for lighted cigarettes and the like associated with said receiver, said support comprising a strip of thermostatic metal fixedly secured at one end and deflected upwardly and inwardly at the other end relative to said receiver upon predetermined increases in temperature, a portion of said strip being deflected upwardly intermediate the ends to impart a snapping action to the upward deflection of said end whereby a supported cigarette or the like is deposited in said receiver.

2. In combination, an ash receiver, and a support for lighted cigarettes and the like associated with said receiver, said support being fixed at one end and deflected upwardly and inwardly at the other end relative to said receiver upon predetermined increases in temperature, a section of said support comprising a strip of thermostatic metal deflected upwardly in a localized zone, said

deflected zone upon increasing temperature being deflected downwardly to impart a snapping action to upward deflection of said end whereby a supported cigarette or the like is deposited in said receiver.

3. In combination, an ash receiver, and a support for lighted cigarettes and the like associated with said receiver, said support being fixed at one end and deflected upwardly and inwardly at the other end relative to said receiver upon predetermined increases in temperature, a section of said support comprising a strip of thermostatic metal deflected upwardly in a localized zone adjacent said fixed end, said deflected zone upon increasing temperature being deflected downwardly to impart a snapping action to upward deflection of said end whereby a supported cigarette or the like is deposited in said receiver.

4. In combination, an ash receiver, a fixed support for lighted cigarettes and the like associated with said receiver, and a strip of thermostatic metal fixedly secured at the inner end upon said fixed support upon which the cigarette is directly supported, the other end of said strip being free to deflect upwardly and inwardly relative to said receiver upon predetermined increases in temperature, a section of said strip being cupped upwardly adjacent said fixed end, said section upon increasing temperature being deflected downwardly to impart a snapping action to upward deflection of said end whereby a supported cigarette or the like is deposited in said receiver.

5. A safety smoker's article comprising an ash receptacle, a rest carried thereby, and a thermostatic device connected to the base of the rest, including a snap acting section arranged to throw a lighted cigar, cigarette, or the like from said rest when the lighted portion of said cigar reaches the snap acting section.

6. A safety smoker's article comprising an ash receptacle, a rest carried thereby, and a metallic heat responsive member on said rest upon which a lighted cigar, cigarette, or the like may be disposed, said heat responsive member comprising a part actuated by heat from said lighted article to throw the latter into said receptacle.

7. In combination, an ash receiver, and a support for lighted cigarettes and the like associated with said receiver, said support comprising a bi-metallic thermostatic plate fixedly secured at one end, and deflected upwardly and inwardly at the other end relative to said receiver upon predetermined increases in temperature, whereby a supported cigarette or the like is deposited in said receiver.

8. A safety smoker's article comprising an ash receptacle, a rest carried thereby to hold a lighted cigarette or the like, and a heat responsive member connected to said rest, including snapping means, said snapping means being actuated upon an increase in temperature due to the heat of the lighted cigarette or the like on the rest, to snap a cigarette on said rest in such a manner as to throw it into the receptacle.

9. As a new article of manufacture, a smoker's article comprising an ash receptacle, a rest carried thereby, an automatic actuating device associated with the rest for throwing a lighted cigarette or the like thereon into the receptacle, said actuating device comprising a bi-metallic plate secured at its inner end adjacent to the receptacle and having its outer end remote from the receptacle, the outer end being capable of snapping upwardly to throw a cigarette or the like into the receptacle, and the remaining portion of said device including snapping means for causing the outer end of the bi-metallic plate to automatically effect the throwing action above mentioned.

KURT RETTICH.