

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
5 February 2009 (05.02.2009)

PCT

(10) International Publication Number  
**WO 2009/016461 A2**

(51) International Patent Classification: Not classified

(21) International Application Number:  
PCT/IB2008/001959

(22) International Filing Date: 25 July 2008 (25.07.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
BO2007A000524 27 July 2007 (27.07.2007) IT

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:  
— without international search report and to be republished upon receipt of that report



WO 2009/016461 A2

(54) Title: DEVICE TO LIGHT AND EXTINGUISH A CIGARETTE WITH RECOVERY OF THE CIGARETTE

(57) Abstract: The device consists of a first container body (1) with a lighter for cigarette and a housing seat (2) having size suitable to house a cigarette and it, further, comprises a container body (8) to extinguish the cigarette.

“Device to light and extinguish a cigarette with recovery of the cigarette”.

In the field of cigarette lighters are known portable lighters. In the known art the lighters, principally, consist of a fuel tank, an igniter and auxiliary parts. Object of the present invention is a new and original device able to perfectly extinguish and eventually recovery a lighted cigarette and not completely smoked so permitting to smoke the same cigarette in a second time. It is known that in a lot of places is not possible to smoke and before entering in these places the cigarette must be extinguished, even if the same is lighting for a short time, so throwing away a cigarette, sometime also not completely extinguished, with most part of the tobacco not used. This situation, so like a lot of cases those obliged to throw away cigarettes just lighted and small smoked, is source of danger for fire risk and it is waste and money damage for the smoker. In the previous art are known different devices those simply cut the part near to the lighted part of the cigarette. However, these known devices are encumbered and they are another object that the smoker must have with him. Moreover, with these known apparatuses, the cigarette cutting is not always perfect and remain the bad smell of burning. Then, these known devices, in the case that they do not act a perfect cutting, create the possibility that parts of the cigarette cause the new lighting of the same, with dangerous consequences, such as the cut cigarette is generally put into the packet of cigarettes, with parts that can easily burn, or said cut cigarette is placed in the pockets of the smoker clothing with more dangerous causes in case of no or not complete extinguishing. The invented device permits, instead, other to the extinguishing and the cutting of the lighted cigarette, also its housing in a suitable seat present inside the new device, with high safety standard, such as it is impossible the new lighting of the cigarette. The containment seat of the cut cigarette provides an upper closing able to not permit the arrive of oxygen to the cut cigarette. The invented device, moreover, is realized with sizes suitable to permit its housing into a cigarette packet in where there is no at least two cigarettes or outside the same. Aims and characteristics of the invented device are better to be noted with the following detailed description together with the enclosed drawings showed in an indicative and not limiting way in the sheets 1

and 2. In particular in sheet 1 figure 1 is frontal view of the invented device housing into a packet of cigarettes. Figure 2 is frontal view of the invented device housing into a packet of cigarettes. In sheet 2 the figures 3, 4, 5 and 6 are section views those show the invented device. In particular figures 3 and 4 show the device in no use step. Figure 5 shows the device in the inserting and extinguish step of the cigarette. Figure 6 shows the device in the recovery step of the cut cigarette inside the housing seat before closing the cylindrical container with closed bottom, provided for acting the extinguishing and to hold the end part of the cigarette during the cutting. The invented device consists of a first container body 1 into which is housed a suitable recharging lighter for cigarette. Inside this first container body 1 is present a housing seat 2 having inside size suitable to contain a cigarette. At the bottom 3 of the housing seat 2 is connected a spring 4 with small resistance to the compression. At the other end of the spring 4 is stable placed a plate 5. At the opposite end of the bottom 3 of the housing seat, i.e. in the opening part of the housing seat 2, is provided a blade 6, placed on guides 7 and movable to permit the opening so to insert the lighted cigarette inside a second container body 8, also it to be moved laterally to the frame of the first container body 1 by means of guides 9 that permit its movement but not its coming out. The second container body 8 is in anti-fire material and it is movable to permit the insertion of the cut cigarette into the housing seat 2. Said second container body 8 has inside sizes over the cigarette diameter and outside sizes equal to the under part of the housing seat 2. Moreover, the outside bottom 10 of the second container body 8 may be slightly inclined to help the insertion of the cut cigarette into the housing seat 2 and to permit the compression of the spring 4 when the second container body 8 is closed again in the first container body 1. The tightening at end run of the guides 7 and 9 permits to the second containment body 8 and to the blade 6 to remain inside the first container body 1. The pulling out and the moving of the blade 6 and the second containment body 8 are actuated to the manual push action, determined prevalently with the thumb, toward the outside part of the first container body 1. In using phase the invented device provides the lighting of the cigarette actuated with the conventional lighter,

inserted in the first container body 1. In the case that the cigarette must be extinguished, the lighted part of the cigarette is inserted in the second container body 8 and it is cut to the blade 6 previously opening to permit the insertion of the lighted end of the cigarette inside the second container body 8. Actuating the cut moving the blade 6 placed as horizontal guillotine, with motion of the blade to be driven with a finger, the burning part is eliminated inside the second container 8. Then this second container body 8 is moved toward the outside part of the first container 1 so permitting the insertion of the cut cigarette in the housing seat 2 through the back hole present in the inside part of the blade 6 and with sizes of said hole suitable for the passage of the cigarette inside the housing seat 2. In the case of cut cigarette of bigger length, as for example for the cigarettes known like 100S, cigars or similar, the outside bottom 10 slightly inclined helps the compression of the spring 4 closing again the second container body 8. To take out the cut cigarette the second container body 8 and the blade 6 are moved so to have the opening of the housing seat 2. The release action of the spring 4, previously compressed in the insertion, helps the coming out of the cut cigarette. In other embodiment, always part of the present inventive step, the invented device is without the spring and the plate but it has bigger inside spaces of the housing seat so to avoid that the cut cigarette can be jammed inside the housing seat 2. In further embodiment, always part of the present inventive step, the invented device is made for a stable disposition, i.e. it is created like an ash-try, with possibility to cut the cigarette or the cigar inside the second containment body 8 with cutting actuated by means of the blade 6 and recovery of the remaining part of the cigarette or of the cigar. All the technical details can be replaced with other ones equivalent without getting out to the inventive step. The materials and the sizes may be of every kinds on the base of the use necessities. Moreover, it is possible, if requested, the presence of a part 11 onto the outside face 12 of the first container body 1 or upper and outside the tongue 13 to connection with the cigarette packet 14 for advertising.

Claims.

- 1) Device to light and extinguish a cigarette with recovery of the cigarette comprising into a container body (1) a lighter for cigarette, characterized in that into the container body (1) is present a housing seat (2) having inside size suitable to contain a cigarette.
- 2) Device to light and extinguish a cigarette with recovery of the cigarette, as to the previous claim, characterized in that it provides a second container body (8) for the extinguished action to be moved laterally to the frame of the first container body (1) by means of guides (9) those permit its movement but not its coming out, with the container body (8) to be moved to insert the cut cigarette inside the housing seat (2).
- 3) Device to light and extinguish a cigarette with recovery of the cigarette, as to the previous claims, characterized in that it has a blade (6) placed on guides (7) and movable to actuate the cutting of the lighted cigarette housing in the container body (8).
- 4) Device to light and extinguish a cigarette with recovery of the cigarette, as to the previous claims, characterized in that the blade (6) may have a back hole for the passage of the cut cigarette inside the housing seat (2).
- 5) Device to light and extinguish a cigarette with recovery of the cigarette, as to the previous claims, characterized in that it provides a spring (4) at a bottom (3) of the housing seat (2) and with to the other end a plate (5).
- 6) Device to light and extinguish a cigarette with recovery of the cigarette, as to the previous claims, characterized in that the outside bottom (10) of the second container body (8) may be slightly inclined.
- 7) Device to light and extinguish a cigarette with recovery of the cigarette, as to the claims 1, 2, 3 and 4, characterized in that the housing seat (2) has bigger inside spaces so to avoid that the cut cigarette can be jammed inside the housing seat (2).

- 8) Device to light and extinguish a cigarette with recovery of the cigarette, as to the previous claims, characterized in that it is to be used also for cigars.
- 9) Device to light and extinguish a cigarette with recovery of the cigarette, as to the previous claims, characterized in that it may have a part (11) for advertising outside the tongue (13) or onto the outside face (12) of the first container body (1).
- 10) Device to light and extinguish a cigarette with recovery of the cigarette, as to the previous claims, characterized in that it may have a stable disposition, like an ash-try, with possibility of cutting of the cigarette or cigar inside the second container body (8), with cutting actuated by means of the blade (6) and recovery of the remaining part of the cigarette or cigar.

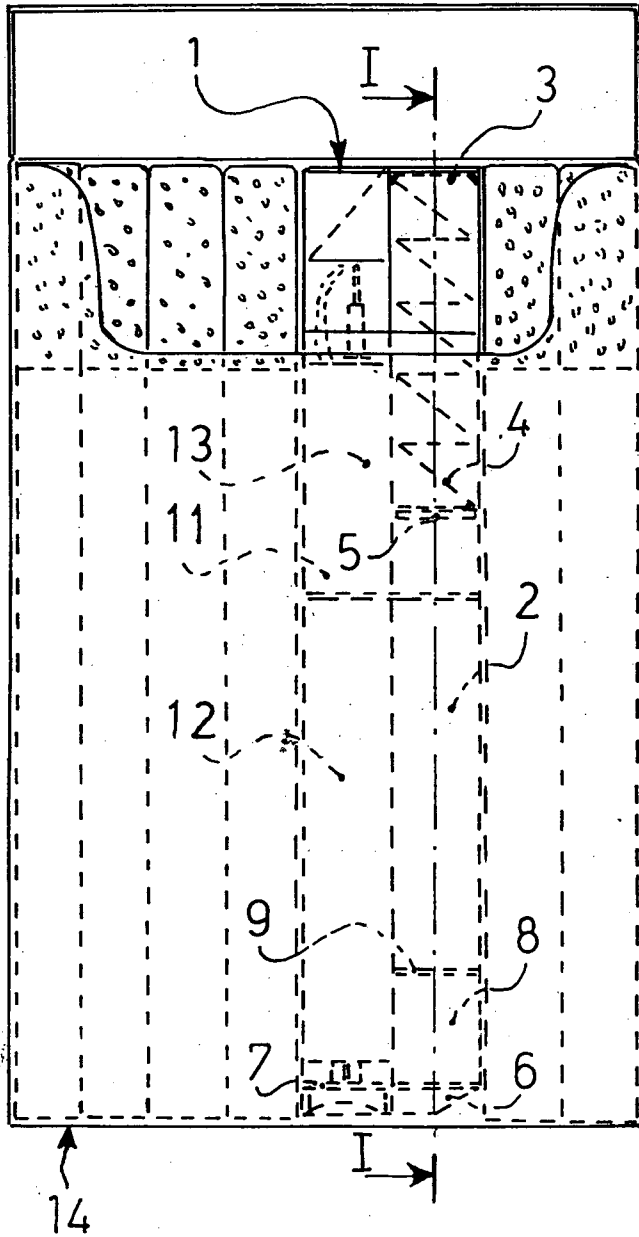


FIG.1

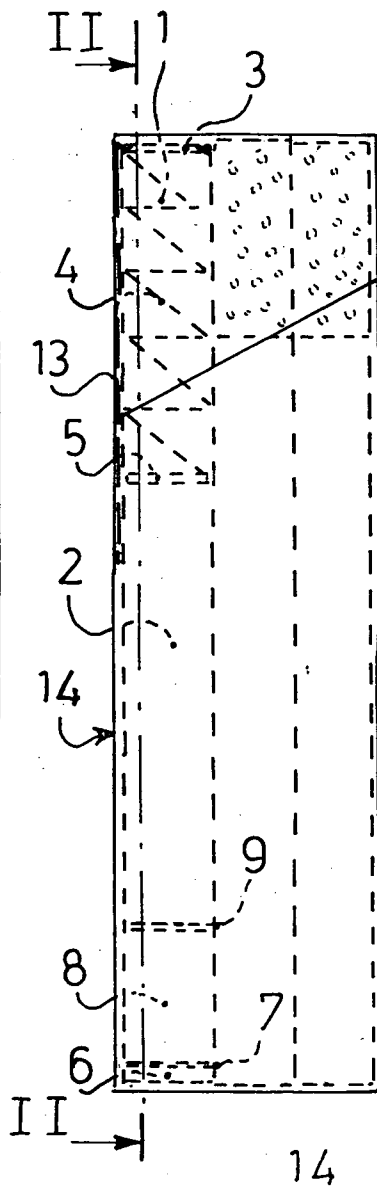


FIG.2

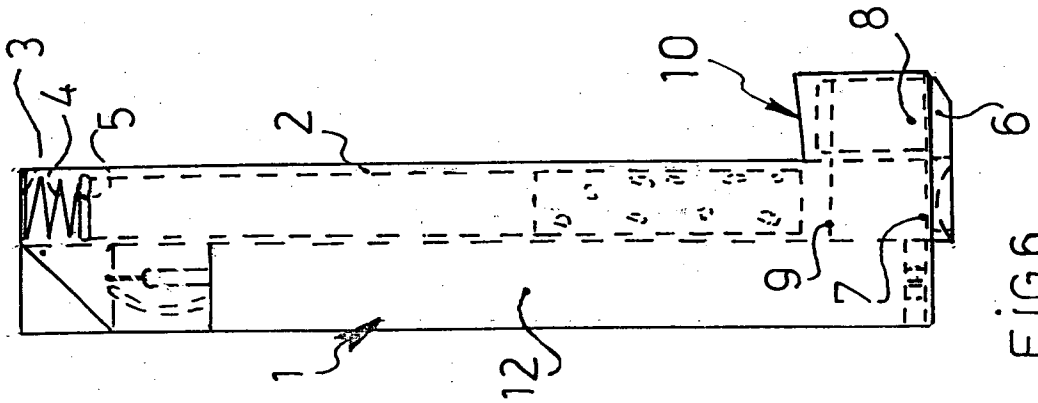


FIG. 6

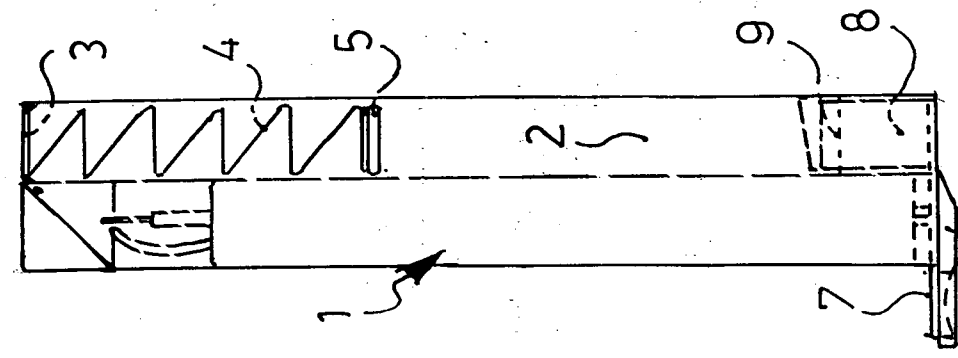


FIG. 5

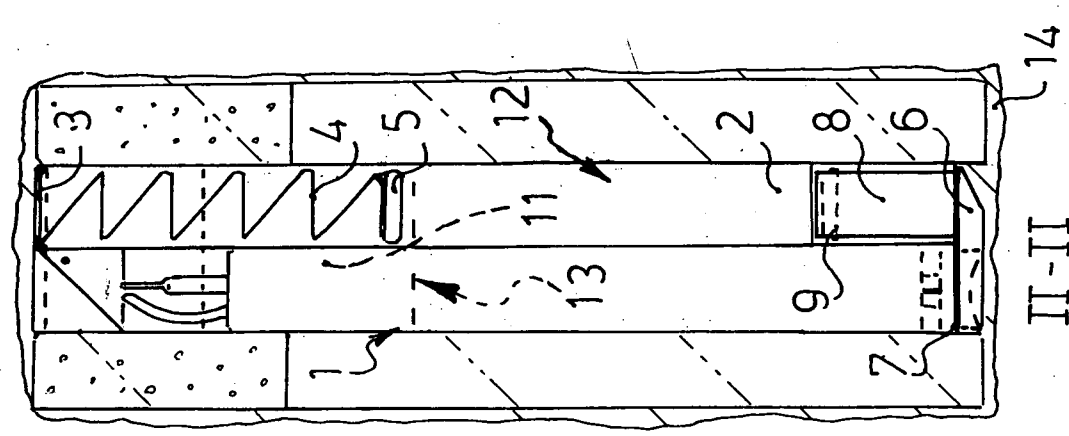


FIG. 4

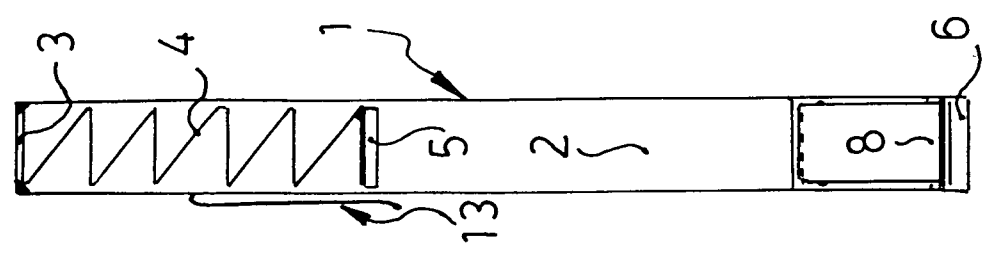


FIG. 3