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(54) **CIGARETTE STRUCTURE**

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(57) **ABSTRACT**

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A cigarette structure contains: a body, a filtration element, and a space. The body includes a rolling paper and multiple tobaccos, the rolling paper is rolled in a hollow cylinder shape so as to accommodate the multiple tobaccos, and the rolling paper has a first thickness. The filtration element includes a filter paper and filter cotton, wherein the filter paper is rolled in a cylinder shape and has a second thickness which is more than the first thickness of the rolling paper, the filter cotton is accommodated in a front end of the filter paper, and an end of the body is connected in a rear end of the filter paper away from the filter cotton. The space is defined between the filter paper of the filtration element and the body so that the body does not contact with the filter cotton.

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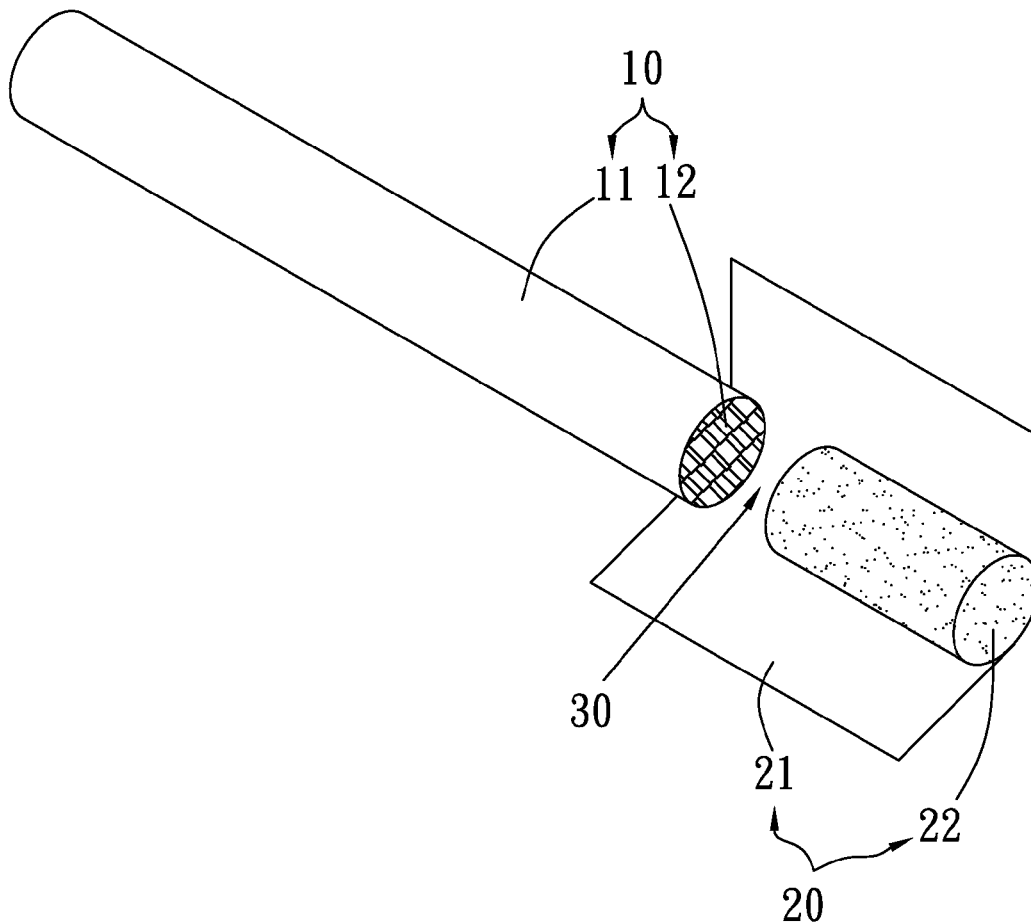
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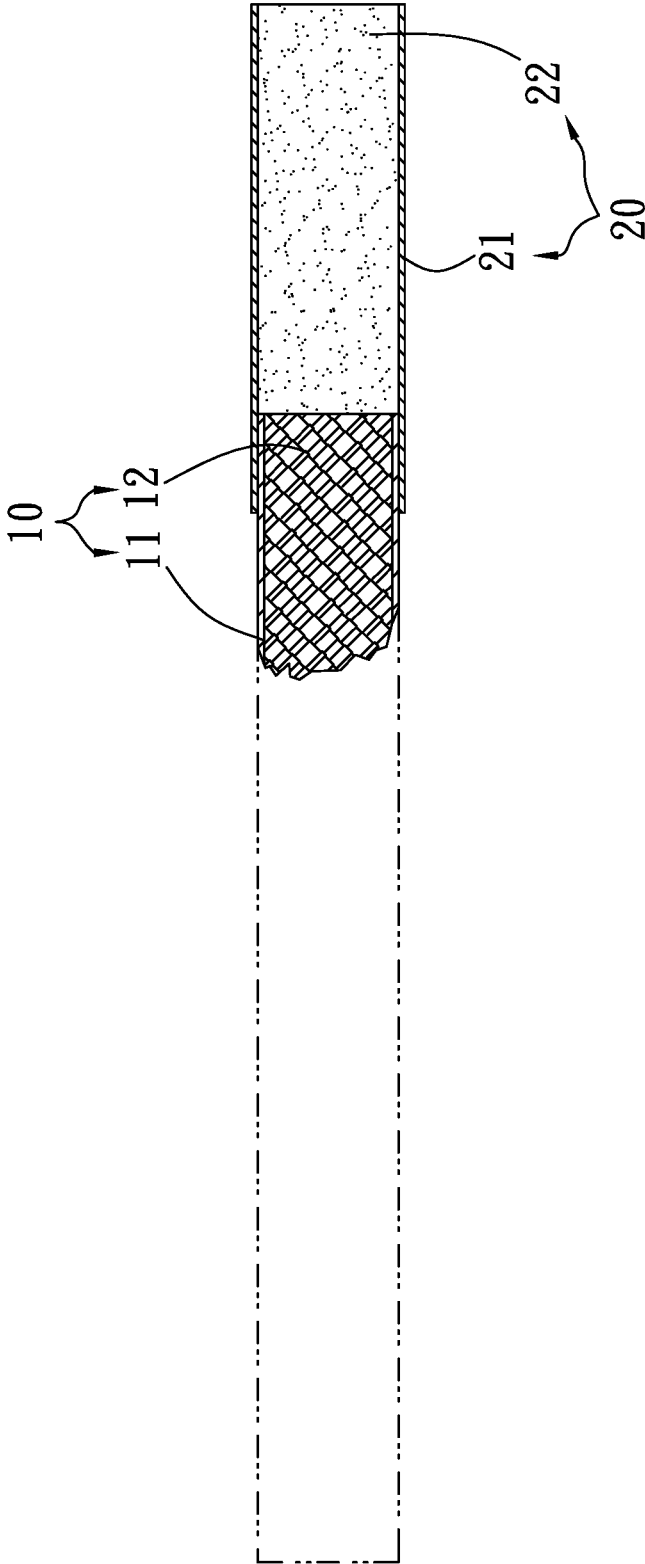


FIG. 1
PRIOR ART

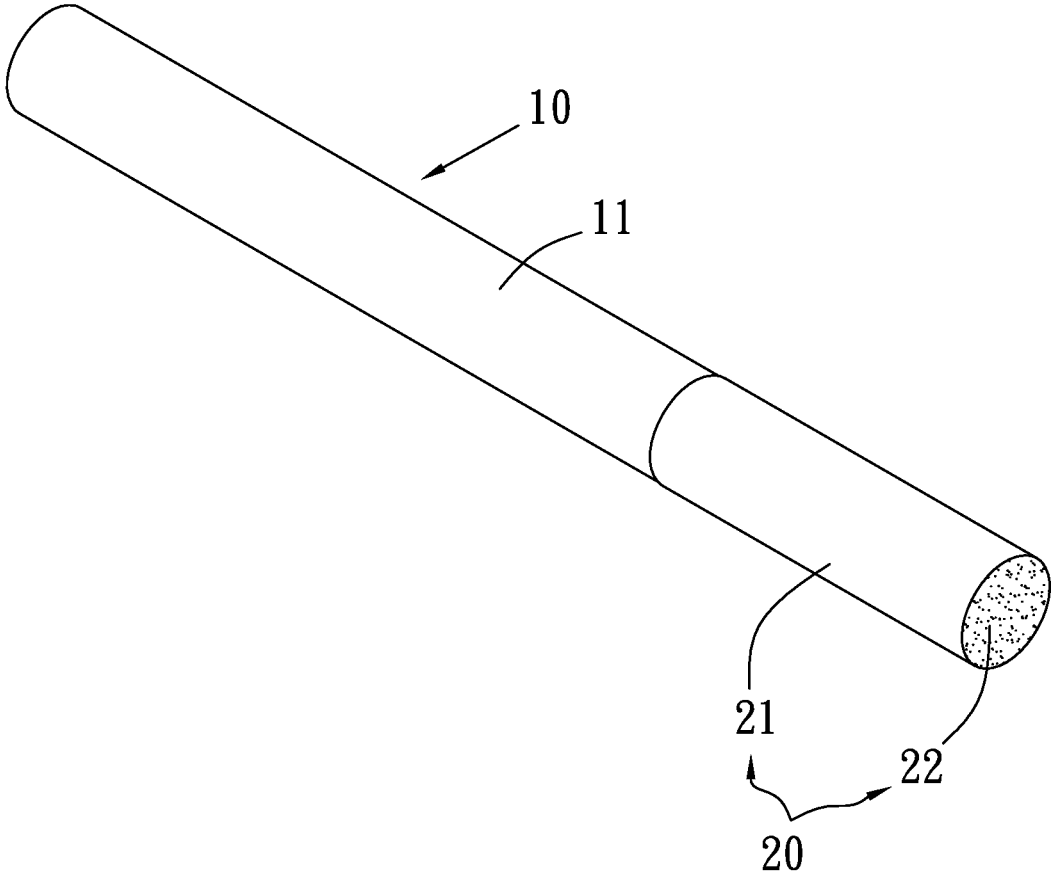


FIG. 2

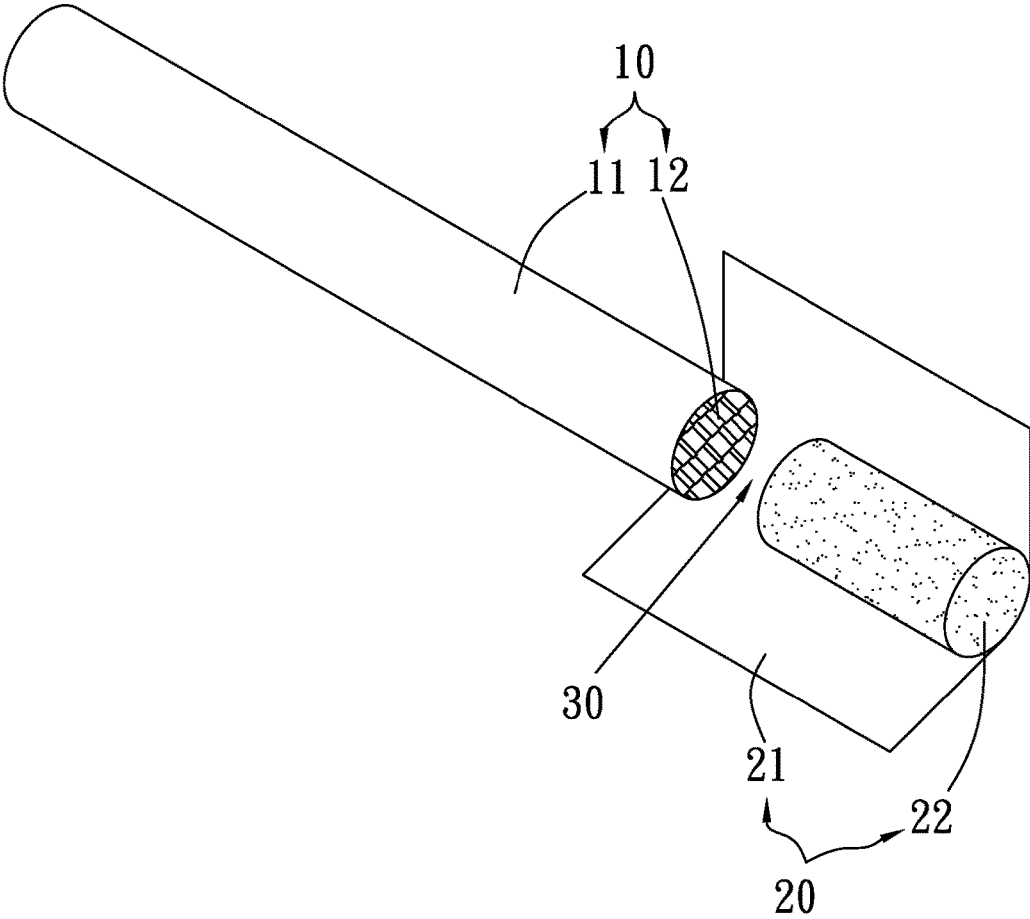


FIG. 3

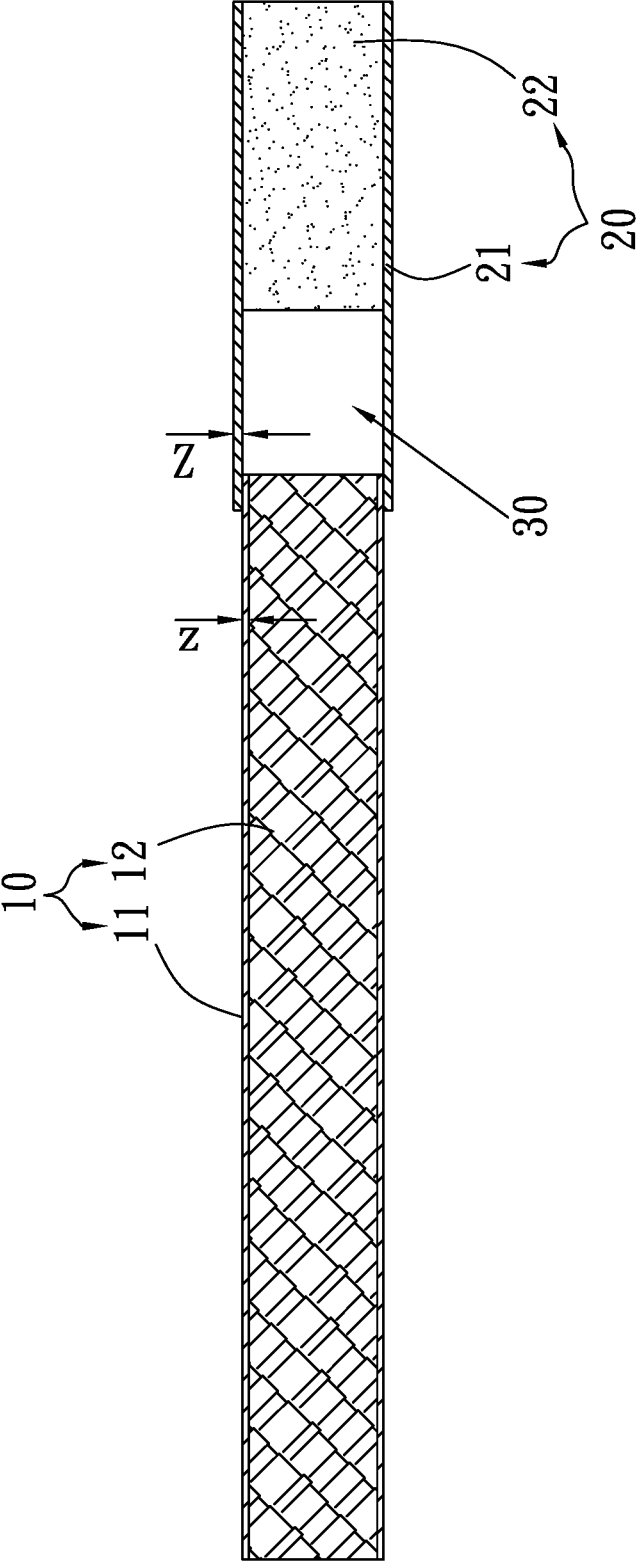


FIG. 4

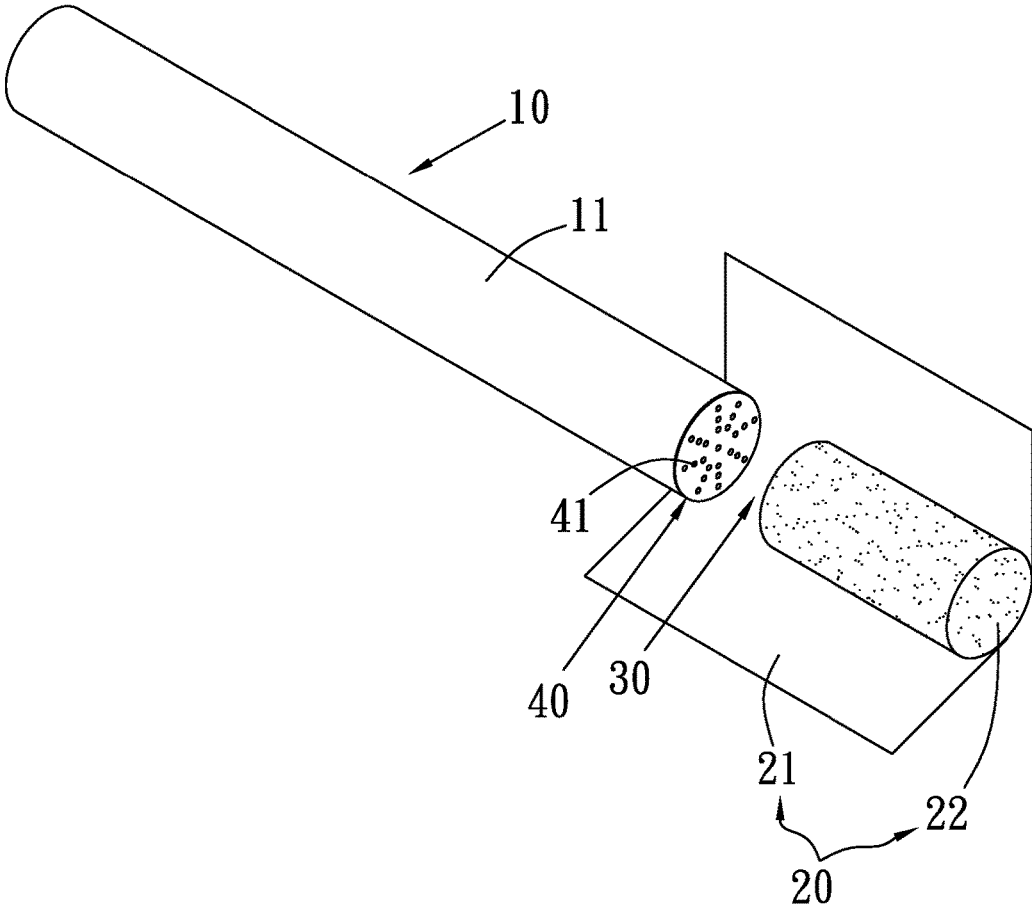


FIG. 5

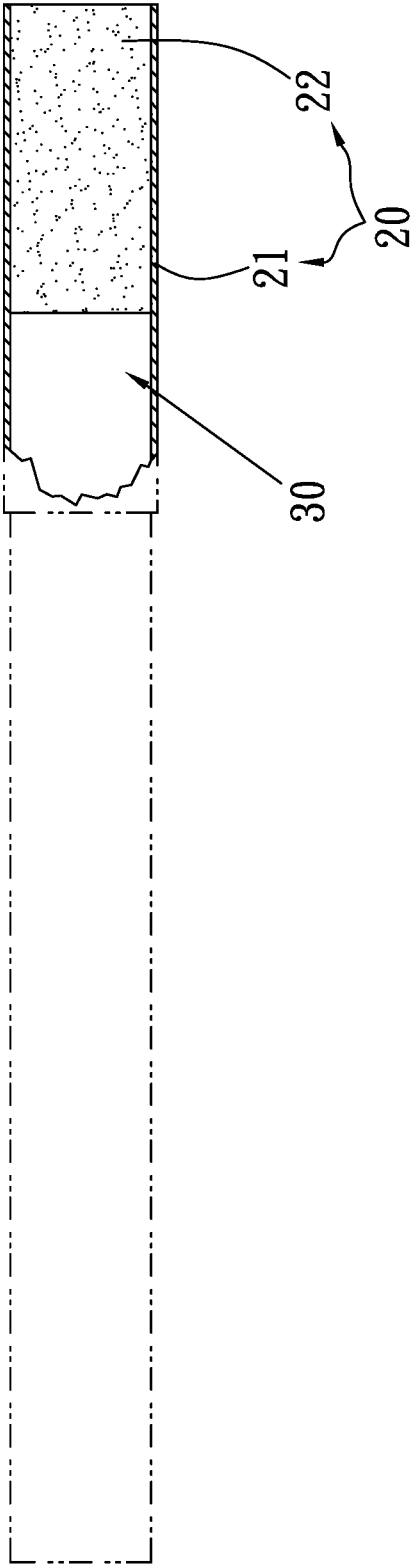


FIG. 6

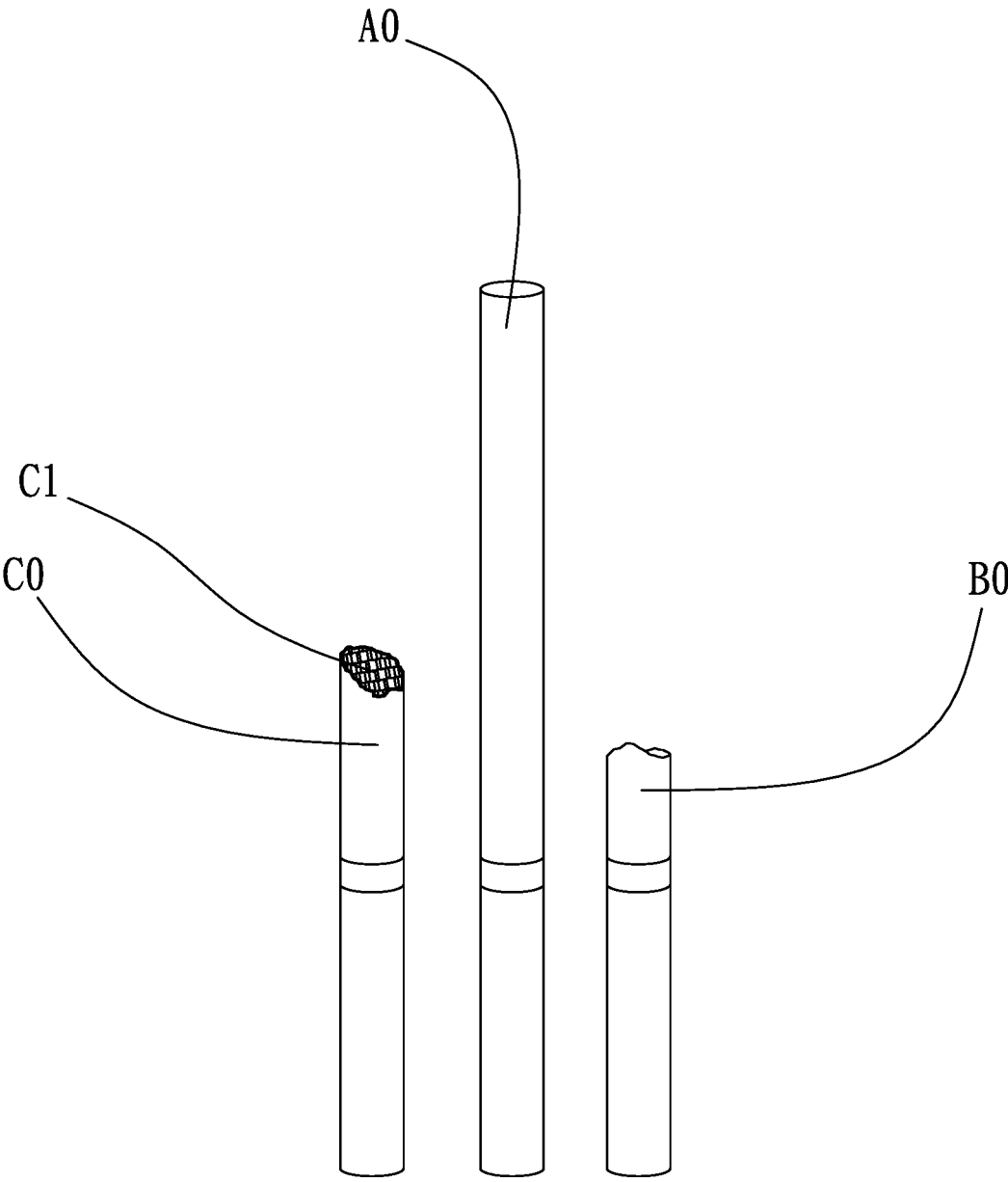


FIG. 7

CIGARETTE STRUCTURE

BACKGROUND OF THE INVENTION

Field of the Invention

[0001] The present invention relates to a cigarette structure which contains multiple tobaccos capable of burning out completely.

Description of the Prior Art

[0002] A conventional cigarette contains a rolling paper rolled in a hollow cylinder shape, a cigarette filter fixed on a rear end of the conventional cigarette, and filter cotton accommodated in the cigarette filter, such that gases after burning tobaccos is inhaled by a smoker.

[0003] With reference to FIG. 1, the smoker knows that fire will flame the filter cotton to produce harmful gases after burning the tobaccos, thus having damage to smoker's health. To avoid such a problem, the smoker will extinguish and discard a cigarette butt that burning the tobaccos to nearly reach away the cigarette butt of 1-2 cm, thus causing environmental pollution.

[0004] In addition, the cigarette butt may cause a fire after being discarded to flame objects.

[0005] A waste prevention cigarette is disclosed in CN 201520125782 and contains a rolling cylinder, cut tobaccos accommodated in the rolling cylinder, a holder connected with the rolling cylinder, and a space defined between the cut tobaccos and the holder and having a filler housed in the space, wherein the filler is a circular ceramics sheet or a circular glass sheet, such that the cut tobaccos do not contact the holder and the waste prevention cigarette is not broken. However, the cigarette is manufactured difficult at high production cost and has heavy weight to increase delivery cost.

[0006] After smoking the circular ceramics sheet or the circular glass sheet is discarded to have environmental pollution and consumption waste. Furthermore, the burning tobaccos to heat the circular ceramics sheet or the circular glass sheet at a high temperature cause is broken and the smoker is injured by the circular ceramics sheet or the circular glass sheet consequently.

[0007] Another cigarette is disclosed in U.S. Pat. No. 1,555,320 and is provided with means located intermediate the ends thereof, which operates to extinguish the burning of the cigarette, both the wrapper and the contents, provided the smoking thereof is discontinued. However, after smoking non-flammable substances of the cigarette proximate to a filtration element, harmful gases produce due to the cut tobaccos flames the non-flammable substances at a high temperature, thus causing environment pollution and toxic gases or substance for human body. The cigarette contains the cut tobaccos, the filtration element, and non-flammable substances, so production cost inclusive of the non-flammable substances will increase, and the smoker does not accept such a production cost. Likewise, the non-flammable substances results in consumption waste and environmental pollution, after discarding the cigarettes.

[0008] The cigarettes of CN 201520125782 and U.S. Pat. No. 1,555,320 have following defects:

[0009] 1. Having resulted in another problem after solving an original problem.

[0010] 2. It is impossible to overcome production cost and to have competitive price in the market.

[0011] The present invention has arisen to mitigate and/or obviate the afore-described disadvantages.

SUMMARY OF THE INVENTION

[0012] The primary objective of the present invention is to provide a cigarette structure which contains a space defined between a body and filter cotton so that multiple tobaccos burn out totally so as to avoid environmental pollution and waste.

[0013] Further objective of the present invention is to provide a cigarette structure which contains the space defined between the body and the filter cotton so that the multiple tobaccos do not burn the filter cotton so as to prevent harmful gases being inhaled by a smoker.

[0014] Another objective of the present invention is to provide a cigarette structure which contains the space defined between the body and the filter cotton so that the multiple tobaccos do not flame the filter cotton and extinguish after burning out in the space, thus avoiding fire disaster after discarding cigarette butt.

[0015] To obtain above-mentioned objects, a cigarette structure provided by the present invention contains: a body, a filtration element, and a space. The body includes a rolling paper and multiple tobaccos, the rolling paper is rolled in a hollow cylinder shape so as to accommodate the multiple tobaccos, and the rolling paper has a first thickness. The filtration element includes a filter paper and filter cotton, wherein the filter paper is rolled in a cylinder shape and has a second thickness which is more than the first thickness of the rolling paper, the filter cotton is accommodated in a front end of the filter paper, and an end of the body is connected in a rear end of the filter paper away from the filter cotton. The space is defined between the filter paper of the filtration element and the body so that the body does not contact with the filter cotton.

[0016] Thereby, the cigarette structure of the present invention has lowest consumption cost of main material (i.e., the tobaccos), and the fabrication cost of the cigarette structure does not increase.

BRIEF DESCRIPTION OF THE DRAWINGS

[0017] FIG. 1 is a cross sectional view showing a conventional cigarette not burning out completely and extinguishing.

[0018] FIG. 2 is a perspective view showing the assembly of a cigarette structure according to a first embodiment of the present invention.

[0019] FIG. 3 is a perspective view showing the exploded components of the cigarette structure according to the first embodiment of the present invention.

[0020] FIG. 4 is a cross sectional view showing the assembly of the cigarette structure according to the first embodiment of the present invention.

[0021] FIG. 5 is a perspective view showing the exploded components of a cigarette structure according to a second embodiment of the present invention.

[0022] FIG. 6 is a cross sectional view showing multiple tobaccos of a cigarette structure burning out completely according to the second embodiment of the present invention.

[0023] FIG. 7 is a perspective view comparing the cigarette structure of the present invention with the conventional cigarette.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

[0024] The present invention will be clearer from the following description when viewed together with the accompanying drawings, which show, for purpose of illustrations only, a preferred embodiment in accordance with the present invention.

[0025] With reference to FIGS. 2-4, a cigarette structure according to a first embodiment of the present invention comprises: a body 10, a filtration element 20, and a space 30.

[0026] The body 10 includes a rolling paper 11 and multiple tobaccos 12, wherein the rolling paper 11 is rolled in a hollow cylinder shape so as to accommodate the multiple tobaccos 12, thus producing the body 10. The rolling paper 11 has a first thickness z0.

[0027] The filtration element 20 includes a filter paper 21 and filter cotton 22, wherein the filter paper 21 is rolled in a cylinder shape and has a second thickness Z0, and the second thickness Z0 of the filter paper 21 is more than the first thickness z0 of the rolling paper 11. The filter cotton 22 is accommodated in a front end of the filter paper 21, and an end of the body 10 is connected in a rear end of the filter paper 21 away from the filter cotton 22, wherein the filter cotton 22 is configured to filter a part of tar when smoking a cigarette so as to avoid the tar being inhaled by a smoker.

[0028] The space 30 is defined between the filter paper 21 of the filtration element 20 and the body 10 so that the body 10 does not contact with the filter cotton 22, wherein the filter cotton 22 of the filtration element 20 is not burned by way of the space 30 after the rolling paper 11 and the multiple tobaccos 12 of the body 10 burn out.

[0029] With reference to FIG. 5, a cigarette structure of a second embodiment from that of the first embodiment comprises: an isolation mesh 40 made of paper and accommodated in a rear end of the body 10 facing the filtration element 20, wherein the isolation mesh 40 is configured to avoid the multiple tobaccos 12 dropping into the space 30, and the isolation mesh 40 includes multiple through orifices 41 formed thereon so that tar, nicotine and gases is inhaled by the smoker from the isolation mesh 40 via the space 30 and the filter cotton 22, after the multiple tobaccos 12 burn.

[0030] In use, the smoker bites a front end of the filtration element 20 and ignites the body 10 by using a cigarette lighter so as to produce the tar, the nicotine and the gases after the multiple tobaccos 12 burn, and a mouth of the smoker inhales so that the tar, the nicotine and the gases are inhaled into the filter cotton 22 of the filtration element 20 from the space 30, a part of the tar, the nicotine and the gases are filtered by the filter cotton 22, and the other of the tar, the nicotine and the gases are inhaled by the smoker, as shown

in FIG. 6. Referring further to FIG. 7, the multiple tobaccos 12 are inhaled by the smoker and burn completely, so the filter cotton 22 of the filtration element 20 is not burned to result in harmful gases, and the multiple tobaccos 12 burns out totally to avoid environmental pollution and fire disaster. As shown in FIG. 7, a first cigarette A0 of the present invention is not ignited, a second cigarette B0 of the present invention burns out completely, and a conventional cigarette C0 does not burn out and has remains C1 left.

[0031] Accordingly, the cigarette structure of the present invention has advantages as follows:

[0032] 1. The space 30 is defined between the body 10 and the filter cotton 22 so that the multiple tobaccos 12 burn out totally so as to avoid environmental pollution and waste.

[0033] 2. The multiple tobaccos 12 do not burn the filter cotton 22 so as to prevent the toxic gases being inhaled by the smoker.

[0034] 3. The space 30 is defined between the body 10 and the filter cotton 22 so that the multiple tobaccos 12 do not flame the filter cotton 22 and extinguish after burning out in the space 30, thus avoiding the fire disaster after discarding cigarette butt.

[0035] Thereby, the cigarette structure of the present invention has lowest consumption cost of main material (i.e., the tobaccos), and the fabrication cost of the cigarette structure does not increase.

[0036] While various embodiments in accordance with the present invention have been shown and described, it is clear to those skilled in the art that further embodiments may be made without departing from the scope of the present invention.

What is claimed is:

1. A cigarette structure comprising:

- a body including a rolling paper and multiple tobaccos, the rolling paper being rolled in a hollow cylinder shape so as to accommodate the multiple tobaccos, and the rolling paper having a first thickness;
- a filtration element including a filter paper and filter cotton, the filter paper being rolled in a cylinder shape and having a second thickness which is more than the first thickness of the rolling paper, the filter cotton being accommodated in a front end of the filter paper, and an end of the body being connected in a rear end of the filter paper away from the filter cotton; and
- a space defined between the filter paper of the filtration element and the body so that the body does not contact with the filter cotton.

2. The cigarette structure as claimed in claim 1, wherein the body includes an isolation mesh accommodated in a rear end thereof facing the filtration element.

3. The cigarette structure as claimed in claim 2, wherein the isolation mesh is made of paper and includes multiple through orifices formed on the isolation mesh.

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