

Conditional Amendment 1

Paragraphs and claims not mentioned below will remain unchanged.

Description

[0009] The purpose of this invention is fulfilled with an aerosol electronic cigarette comprising a battery assembly, an atomizer assembly, a liquid storage component and a hollow shell having one or more through-air-inlets. The battery assembly connects electrically with the atomizer assembly, and both are located in the shell. The atomizer assembly includes a porous component and a heating body in the form of a heating wire. The atomizer assembly includes a support member having a run-through hole. The porous component is mounted on the support member and is wound with the heating wire in a part that is on the side in the axial direction of the run-through hole. The liquid storage component fits with the porous component of the atomizer assembly and is located in one end of the shell which is detachable, with the atomizer assembly not being a capillary impregnation atomizer in which the support member having a run-through hole and the porous component wound with heating wire are parts of a single integrated body made of micro-porous ceramics.

Claims

1. An aerosol electronic cigarette comprising a battery assembly, an atomizer assembly, a liquid storage component (9) and a hollow shell (a, b) having one or more through-air-inlets (a1); wherein the battery assembly connects electrically with the atomizer assembly, and both are located in the shell (a, b);
the atomizer assembly includes a porous component (81) and a heating body in the form of a heating wire (83);
characterised in that
the atomizer assembly includes a support member (82) having a run-through hole (821);
the porous component (81) is mounted on the support member (82) and is wound with the heating wire (83) in a part that is on the side in the axial direction of the run-through hole (821);
and
the liquid storage component fits with the porous component of the atomizer assembly and is located in one end of the shell (b) which is detachable, the atomizer assembly not being a capillary impregnation atomizer in which the support member (82) having a run-through hole (821) and the porous component (81) wound with heating wire (83) are parts of a single integrated body made of micro-porous ceramics.

Conditional Amendment 2

Paragraphs and claims not mentioned below will remain unchanged.

Description

[0009] The purpose of this invention is fulfilled with an aerosol electronic cigarette comprising a battery assembly, an atomizer assembly, a liquid storage component and a hollow shell having one or more through-air-inlets. The battery assembly connects electrically with the atomizer assembly, and both are located in the shell. The atomizer assembly includes a porous component and a heating body in the form of a heating wire. The atomizer assembly includes a support member having a run-through hole, with the atomizer assembly not comprising a porous component made of micro-porous ceramics and a support member made of foamed ceramics, micro-porous ceramics, micro-porous glass, foamed metal, stainless steel fiber felt, terylene fiber, nylon fiber, nitrile fiber, aramid fiber, hard porous plastics or chemical fiber molding. The porous component is mounted on the support member and is wound with the heating wire in a part that is on the side in the axial direction of the run-through hole. The liquid storage component fits with the porous component of the atomizer assembly and is located in one end of the shell which is detachable.

Claims

1. An aerosol electronic cigarette comprising a battery assembly, an atomizer assembly, a liquid storage component (9) and a hollow shell (a, b) having one or more through-air-inlets (a1); wherein the battery assembly connects electrically with the atomizer assembly, and both are located in the shell (a, b);
the atomizer assembly includes a porous component (81) and a heating body in the form of a heating wire (83);
characterised in that
the atomizer assembly includes a support member (82) having a run-through hole (821);
the porous component (81) is mounted on the support member (82) and is wound with the heating wire (83) in a part that is on the side in the axial direction of the run-through hole (821);
and
the liquid storage component fits with the porous component of the atomizer assembly and is located in one end of the shell (b) which is detachable, the atomizer assembly not comprising a porous component (81) made of micro-porous ceramics and a support member (82) made of foamed ceramics, micro-porous ceramics, micro-porous glass, foamed metal, stainless steel fiber felt, terylene fiber, nylon fiber, nitrile fiber, aramid fiber, hard porous plastics or chemical fiber molding.

Conditional Amendment 3

Paragraphs and claims not mentioned below will remain unchanged.

Description

[0009] The purpose of this invention is fulfilled with an aerosol electronic cigarette comprising a battery assembly, an atomizer assembly, a liquid storage component and a hollow shell having one or more through-air-inlets. The battery assembly connects electrically with the atomizer assembly, and both are located in the shell. The atomizer assembly includes a porous component and a heating body in the form of a heating wire. The atomizer assembly includes a support member having a run-through hole. The porous component is mounted on the support member and is wound with the heating wire in a part that is on the side in the axial direction of the run-through hole. The liquid storage component fits with the porous component of the atomizer assembly and is located in one end of the shell wherein the end of the shell containing the liquid storage component forms a cigarette bottle assembly which is detachable.

Claims

1. An aerosol electronic cigarette comprising a battery assembly, an atomizer assembly, a liquid storage component (9) and a hollow shell (a, b) having one or more through-air-inlets (a1); wherein the battery assembly connects electrically with the atomizer assembly, and both are located in the shell (a, b);
the atomizer assembly includes a porous component (81) and a heating body in the form of a heating wire (83);
characterised in that
the atomizer assembly includes a support member (82) having a run-through hole (821);
the porous component (81) is mounted on the support member (82) and is wound with the heating wire (83) in a part that is on the side in the axial direction of the run-through hole (821);
and
the liquid storage component fits with the porous component of the atomizer assembly and is located in one end of the shell (b) wherein the end of the shell (b) containing the liquid storage component forms a cigarette bottle assembly which is detachable.
- ~~8. An aerosol electronic cigarette as claimed in any preceding claim, wherein the end of the shell containing the liquid storage component forms a cigarette bottle assembly comprising the liquid storage component inside a hollow cigarette holder shell.~~
- ~~89. An aerosol electronic cigarette as claimed in Claim 8 any preceding Claim, wherein the outer peripheral surface of the cigarette holder shell (b) has an inward ventilating groove (b2); and on one end surface of the cigarette holder shell (b), there is an air channel (b1) extending inward.~~

940. An aerosol electronic cigarette as claimed in Claim 89, wherein the air channel (b1) is located in the center of one end surface of the cigarette holder shell (b).

1044. An aerosol electronic cigarette as claimed in any preceding Claim, wherein one end of the porous component (81) lies against one end surface of the liquid storage component (9), and contacts the liquid storage component (9).

1142. An aerosol electronic cigarette as claimed in any preceding Claim, wherein the liquid storage component is a fibre liquid storage component (9).

1243. An aerosol electronic cigarette as claimed in Claim 1142, wherein the fibre liquid storage component is made of PLA fiber, terylene fiber or nylon fiber.

Conditional Amendment 4

Paragraphs and claims not mentioned below will remain unchanged.

Description

[0009] The purpose of this invention is fulfilled with an aerosol electronic cigarette comprising a battery assembly, an atomizer assembly, a liquid storage component and a hollow shell having one or more through-air-inlets. The battery assembly connects electrically with the atomizer assembly, and both are located in the shell. The atomizer assembly includes a porous component and a heating body in the form of a heating wire. The atomizer assembly includes a support member having a run-through hole. The porous component is mounted on the support member and is wound with the heating wire in a part that is on the side in the axial direction of the run-through hole. The liquid storage component fits with the porous component of the atomizer assembly and is located in one end of the shell wherein the end of the shell containing the liquid storage component forms a cigarette bottle assembly which is detachable, with the atomizer assembly not being a capillary impregnation atomizer in which the support member having a run-through hole and the porous component wound with heating wire are parts of a single integrated body made of micro-porous ceramics.

Claims

1. An aerosol electronic cigarette comprising a battery assembly, an atomizer assembly, a liquid storage component (9) and a hollow shell (a, b) having one or more through-air-inlets (a1); wherein the battery assembly connects electrically with the atomizer assembly, and both are located in the shell (a, b); the atomizer assembly includes a porous component (81) and a heating body in the form of a heating wire (83);
characterised in that
the atomizer assembly includes a support member (82) having a run-through hole (821);
the porous component (81) is mounted on the support member (82) and is wound with the heating wire (83) in a part that is on the side in the axial direction of the run-through hole (821);
and
the liquid storage component fits with the porous component of the atomizer assembly and is located in one end of the shell (b) wherein the end of the shell (b) containing the liquid storage component forms a cigarette bottle assembly which is detachable, the atomizer assembly not being a capillary impregnation atomizer in which the support member (82) having a run-through hole (821) and the porous component (81) wound with heating wire (83) are parts of a single integrated body made of micro-porous ceramics.

~~8. An aerosol electronic cigarette as claimed in any preceding claim, wherein the end of the shell containing the liquid storage component forms a cigarette bottle assembly comprising the liquid storage component inside a hollow cigarette holder shell.~~

89. An aerosol electronic cigarette as claimed in ~~Claim 8~~ any preceding Claim, wherein the outer peripheral surface of the cigarette holder shell (b) has an inward ventilating groove (b2); and on one end surface of the cigarette holder shell (b), there is an air channel (b1) extending inward.

940. An aerosol electronic cigarette as claimed in Claim 89, wherein the air channel (b1) is located in the center of one end surface of the cigarette holder shell (b).

1044. An aerosol electronic cigarette as claimed in any preceding Claim, wherein one end of the porous component (81) lies against one end surface of the liquid storage component (9), and contacts the liquid storage component (9).

1142. An aerosol electronic cigarette as claimed in any preceding Claim, wherein the liquid storage component is a fibre liquid storage component (9).

1243. An aerosol electronic cigarette as claimed in Claim 1142, wherein the fibre liquid storage component is made of PLA fiber, terylene fiber or nylon fiber.

Conditional Amendment 5

Paragraphs and claims not mentioned below will remain unchanged.

Description

[0009] The purpose of this invention is fulfilled with an aerosol electronic cigarette comprising a battery assembly, an atomizer assembly, a liquid storage component and a hollow shell having one or more through-air-inlets. The battery assembly connects electrically with the atomizer assembly, and both are located in the shell. The atomizer assembly includes a porous component and a heating body in the form of a heating wire. The atomizer assembly includes a support member having a run-through hole, with the atomizer assembly not comprising a porous component made of micro-porous ceramics and a support member made of foamed ceramics, micro-porous ceramics, micro-porous glass, foamed metal, stainless steel fiber felt, terylene fiber, nylon fiber, nitrile fiber, aramid fiber, hard porous plastics or chemical fiber molding. The porous component is mounted on the support member and is wound with the heating wire in a part that is on the side in the axial direction of the run-through hole. The liquid storage component fits with the porous component of the atomizer assembly and is located in one end of the shell wherein the end of the shell containing the liquid storage component forms a cigarette bottle assembly which is detachable.

Claims

1. An aerosol electronic cigarette comprising a battery assembly, an atomizer assembly, a liquid storage component (9) and a hollow shell (a, b) having one or more through-air-inlets (a1); wherein the battery assembly connects electrically with the atomizer assembly, and both are located in the shell (a, b);
the atomizer assembly includes a porous component (81) and a heating body in the form of a heating wire (83);
characterised in that
the atomizer assembly includes a support member (82) having a run-through hole (821);
the porous component (81) is mounted on the support member (82) and is wound with the heating wire (83) in a part that is on the side in the axial direction of the run-through hole (821);
and
the liquid storage component fits with the porous component of the atomizer assembly and is located in one end of the shell (b) wherein the end of the shell (b) containing the liquid storage component forms a cigarette bottle assembly which is detachable, the atomizer assembly not comprising a porous component (81) made of micro-porous ceramics and a support member (82) made of foamed ceramics, micro-porous ceramics, micro-porous glass, foamed metal, stainless steel fiber felt, terylene fiber, nylon fiber, nitrile fiber, aramid fiber, hard porous plastics or chemical fiber molding.

~~8. An aerosol electronic cigarette as claimed in any preceding claim, wherein the end of the shell containing the liquid storage component forms a cigarette bottle assembly comprising the liquid storage component inside a hollow cigarette holder shell.~~

89. An aerosol electronic cigarette as claimed in ~~Claim 8~~ any preceding Claim, wherein the outer peripheral surface of the cigarette holder shell (b) has an inward ventilating groove (b2); and on one end surface of the cigarette holder shell (b), there is an air channel (b1) extending inward.

910. An aerosol electronic cigarette as claimed in Claim 89, wherein the air channel (b1) is located in the center of one end surface of the cigarette holder shell (b).

1011. An aerosol electronic cigarette as claimed in any preceding Claim, wherein one end of the porous component (81) lies against one end surface of the liquid storage component (9), and contacts the liquid storage component (9).

1112. An aerosol electronic cigarette as claimed in any preceding Claim, wherein the liquid storage component is a fibre liquid storage component (9).

1213. An aerosol electronic cigarette as claimed in Claim 1112, wherein the fibre liquid storage component is made of PLA fiber, terylene fiber or nylon fiber.

Amendment to the description to acknowledge EP2022350 as prior art under 54(3) EPC

[0007] EP0893071 discloses a flavour generating device and CN2719043Y discloses an atomized electronic cigarette. Figures 8 and 9 of European Patent Application EP 2 022 350 A, which is prior art under Article 54(3) EPC, form the basis for the disclaimer in claim 1.