

Proposed amendments to the claims of European Patent (UK) No. 2 022 349 B8 for the purposes of litigation in the UK only

Paragraphs and claims not mentioned below will remain unchanged, i.e. as published in EP 2 022 349 B8.

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.
2. An aerosol electronic cigarette as claimed in Claim 1, wherein the battery assembly includes a battery, an operating indicator (1), an electronic circuit board (4), and an airflow sensor (5), which are connected with the battery; and the signal output of the airflow sensor (5) is connected with the electronic circuit board (4).
3. An aerosol electronic cigarette as claimed in Claim 2, wherein the airflow sensor (5) is either a semiconductor force-sensitive chip, capacitance sensor or an inductance sensor.
4. An aerosol electronic cigarette as claimed in Claim 2, wherein the airflow sensor (5) has a silica gel corrugated membrane (53), which connects with magnetic steel (54) with a reed relay (52) on one of its ends, both ends of the reed relay (52) correspond to the relay electrodes (51) respectively.
5. An aerosol electronic cigarette as claimed in Claim 2, wherein the airflow sensor (5) has a silica gel corrugated membrane (53), which connects with magnetic steel (54) with a Hall element (52) or a magneto-diode or a magneto-triode on one of its ends.
6. An aerosol electronic cigarette as claimed in any preceding claim, wherein the porous component (81) is made of foamed nickel, stainless steel fiber felt, macromolecular polymer foam or foamed ceramics.
7. An aerosol electronic cigarette as claimed in any preceding claim, wherein the heating wire is made of platinum wire, nickel-chromium alloy wire or iron-chromium alloy wire containing rare earth elements, or is flaked.
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.
9. An aerosol electronic cigarette as claimed in Claim 8, 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.
10. An aerosol electronic cigarette as claimed in Claim 9, wherein the air channel (b1) is located in the center of one end surface of the cigarette holder shell (b).

11. 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).

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

13. An aerosol electronic cigarette as claimed in Claim 12, wherein the fibre liquid storage component is made of PLA fiber, terylene fiber or nylon fiber.

~~14. A cigarette bottle assembly comprising a liquid storage component inside a hollow cigarette holder shell, the cigarette bottle assembly configured to replace the detachable cigarette bottle assembly of the aerosol electronic cigarette of any preceding claim dependent on claim 8.~~