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[12] **Utility Model Patent**
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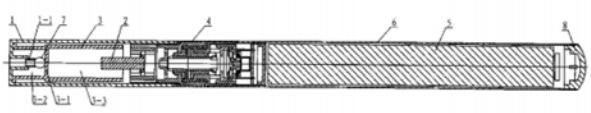
[54] **TITLE OF UTILITY MODEL**

ANION GENERATING E-CIGARETTE

[57] **ABSTRACT**

An anion generating e-cigarette relates to an e-cigarette. The utility model is intended to solve the problem that the existing e-cigarette can produce gases such as nitrogen oxides, ozone, and active oxygen, which cause different degrees of harm to human health. A left end of an inner cavity of an end nozzle of the utility model is provided with a cartridge box, a left end of a filter is arranged at a right end of a condensed cartridge box, a right end of the filter is connected to a left end of a heating vaporization generator, the left end of the heating vaporization generator is arranged at a right end of the inner cavity of the end nozzle, and a right end of the heating vaporization generator is arranged at a left end of an inner cavity of an e-cigarette tube. A lithium electronic charger is arranged in the inner cavity of the e-cigarette tube, a lamp cap is arranged at a right end of the e-cigarette tube, a mouthpiece is arranged in a center hole at



a left end of the end nozzle, and an anion generator is arranged in an inner cartridge cavity and sandwiched between the mouthpiece and a separator. In the utility model, the anion generator is arranged in the e-cigarette, so that the harm to human health caused by gases such as nitrogen oxides, ozone, and active oxygen generated by a smoker during smoking can be eliminated.

1. An anion generating e-cigarette, composed of an end nozzle (1), a filter (2), a cartridge box (3), a heating vaporization generator (4), a lithium electronic charger (5), an e-cigarette tube (6), an anion generator (7), and a lamp cap (8), wherein a left end of an inner cavity of the end nozzle (1) is provided with the cartridge box (3), a separator (3-1) is arranged in the cartridge box (3), the separator (3-1) partitions the cartridge box (3) into an inner cartridge cavity (3-2) and a mouthpiece cavity (3-3), a left end of the filter (2) is arranged at a right end of a condensed cartridge box (3), a right end of the filter (2) is connected to a left end of the heating vaporization generator (4), the left end of the heating vaporization generator (4) is arranged at a right end of the inner cavity of the end nozzle (1), a right end of the heating vaporization generator (4) is arranged at a left end of an inner cavity of the e-cigarette tube (6), the lithium electronic charger (5) is arranged in the inner cavity of the e-cigarette tube (6), a lamp cap (8) is arranged at a right end of the e-cigarette tube (6), a mouthpiece (1-1) is arranged in a center hole at a left end of the end nozzle (1), and the anion generator (7) is arranged in the inner cartridge cavity (3-2) and sandwiched between the mouthpiece (1-1) and the separator (3-1).

2. The anion generating e-cigarette according to claim 1, wherein the anion generator (7) is spherical.

ANION GENERATING E-CIGARETTE

TECHNICAL FIELD

The utility model relates to an e-cigarette.

BACKGROUND

The existing e-cigarette is composed of a mouthpiece, a filter, a condensed cartridge box, a heating vaporization generator, and a lithium electronic charger. The principle of the e-cigarette is to vaporize nicotine solution by heating. This structure is characterized by no burning process of tobacco, no harmful substances produced after burning tobacco, and no fire hazards, which also humanely simulates the whole process of smoking, swallowing, and puffing from a physiological perspective, so that people can unconsciously get rid of their dependence on cigarettes, thereby achieving the goal of completely quitting smoking. However, e-cigarettes can make smokers feel like smoking in the traditional way, and also produce gases such as nitrogen oxides, ozone, and active oxygen that are harmful to human body. These gases are harmful to human health in different degrees through breathing and skin absorption.

SUMMARY

The utility model provides an anion generating e-cigarette, so as to solve the problem that the existing e-cigarette can produce gases such as nitrogen oxides, ozone, and active oxygen, which cause different degrees of harm to human health.

The utility model is composed of an end nozzle, a filter, a cartridge box, a heating vaporization generator, a lithium electronic charger, an e-cigarette tube, an anion generator, and a lamp cap. A left end of an inner cavity of the end nozzle is provided with the cartridge box, and a separator is arranged in the cartridge box. The separator partitions the cartridge box into an inner cartridge cavity and a mouthpiece cavity. A left end of the filter is arranged at a right end of a condensed cartridge box, and a right end of the filter is connected to a left end of the heating vaporization generator. The left end of the heating vaporization generator is arranged at a right end of the inner cavity of the end nozzle, and a right end of the heating vaporization generator is arranged at a left end of an inner cavity of the e-cigarette tube. The lithium electronic charger is arranged in the inner cavity of the e-cigarette tube, a lamp cap is arranged at a right end of the e-cigarette tube, a mouthpiece is arranged in a center hole at a left end of the end nozzle, and the anion generator is arranged in the inner cartridge cavity and sandwiched between the mouthpiece and the separator.

The utility model has the advantages that anions have the functions of clearing foreign matters in the respiratory tract, activating cells, lifting spirits, and enhancing physical fitness. Therefore, in the utility model, the anion generator 7 is arranged in the e-cigarette, so that the

harm to human health caused by gases such as nitrogen oxides, ozone, and active oxygen generated by a smoker during smoking can be eliminated.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a schematic diagram of an overall structure of an e-cigarette according to the utility model.

DETAILED DESCRIPTION

Specific implementation I: This implementation is described with reference to FIG. 1. This implementation is composed of an end nozzle 1, a filter 2, a cartridge box 3, a heating vaporization generator 4, a lithium electronic charger 5, an e-cigarette tube 6, an anion generator 7, and a lamp cap 8. A left end of an inner cavity of the end nozzle 1 is provided with the cartridge box 3, and a separator 3-1 is arranged in the cartridge box 3. The separator 3-1 partitions the cartridge box 3 into an inner cartridge cavity 3-2 and a mouthpiece cavity 3-3. A left end of the filter 2 is arranged at a right end of a condensed cartridge box 3, and a right end of the filter 2 is connected to a left end of the heating vaporization generator 4. The left end of the heating vaporization generator 4 is arranged at a right end of the inner cavity of the end nozzle 1, and a right end of the heating vaporization generator 4 is arranged at a left end of an inner cavity of the e-cigarette tube 6. The lithium electronic charger 5 is arranged in the inner cavity of the e-cigarette tube 6, a lamp cap 8 is arranged at a right end of the e-cigarette tube 6, a mouthpiece 1-1 is arranged in a center hole at a left end of the end nozzle 1, and the anion generator 7 is arranged in the inner cartridge cavity 3-2 and sandwiched between the mouthpiece 1-1 and the separator 3-1. The anion generator 7 can generate anions, which directly enter the human body through smoking, and play a role in cleaning the respiratory tract and improving the respiratory function.

Specific implementation II: This implementation is described with reference to FIG. 1. The anion generator 7 of this implementation is spherical. The anion generator 7 is formed by mixing an anion source, medical silicone rubber, and a dispersant in a ratio of 1:7:2 to obtain a mixture, placing the mixture in a spherical mold, heating the mixture at a temperature of 120-180°C, and cooling the mixture. This design enables the anion generator 7 to automatically release anions, and a number of anions is controlled at 500-800 per cm^3.

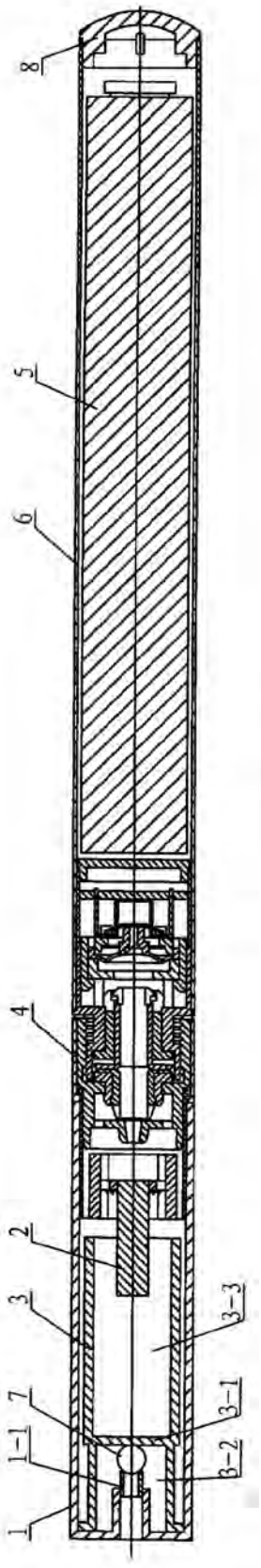


FIG. 1