This invention is a smart electronic cigarette being equipped with multifunctional control means. Accordingly, technological essentials of this invention is that, with regard to an electronic cigarette which provides satisfaction similar as if users smoke a genuine cigarette, in order to help them cease smoking, it enables to control their desire of smoking with multifunctional control means and to monitor the effect of control as well as to do systematic control of smoking, and it has multifunctional control means so that users feel various tastes of an electronic cigarette.
SMART ELECTRONIC CIGARETTE WITH MULTIFUNCTION CONTROL MEANS

CROSS-REFERENCE TO RELATED APPLICATION


BACKGROUND OF THE INVENTION

[0002] This invention is a smart electronic cigarette with multifunction control means, and to tell in more details, with regard to an electronic cigarette which provides satisfaction similar as if users smoke a genuine cigarette, in order to help them cease smoking, it enables to control their desire of smoking with multifunction control means and to monitor the effect of control as well as it enables to do a systematic control of smoking, and it has multifunction control means by which users may feel various tastes of an electronic cigarette.

FIELD OF THE INVENTION

[0003] In general, an electronic cigarette, as stated in the registered utility model number 0453400, is to give effects same as smoking a genuine cigarette with making nicotine liquecence or cigarette smoke scented liquecence as vapor, which consists of storage part, combustion part and power resource part.

[0004] When a user begins smoking, nicotine liquecence or cigarette smoke scented liquecence which is gathered in the storage part is sent to the combustion part, and the combustion part to which power is supplied generates heat so that liquecence turns to vapor and it enables to blow vaporized cigarette smoke.

[0005] Thus, differently from existing cigarette, as only pure nicotine which substances harmful to human body is eliminated is inhaled, this electronic cigarette is used mainly as an aid for refraining from smoking.

[0006] However, as electronic cigarette is not disposable products differently from ordinary cigarette, it is difficult for users to know how much he smoked and to control the quantities of smoking systematically and there has been problems that users’ desire of smoking is getting lower as the time lapses.

[0007] Also, notwithstanding each user’s satisfactory qualities of vaporization is different according to their taste, as other electronic cigarette is made unable to control battery’s voltage and it needs to purchase additional battery or remodel it for one’s own usage, it resulted in adding economical burdens to users.

BRIEF SUMMARY

[0008] This invention is to clear afore-mentioned problems, and its technological purport aims at providing smart electronic cigarette which, in the electronic cigarette providing satisfaction similar to smoking existing cigarette for the purpose of user’s refrain from smoking, multifunctional control means enables to control and monitor users’ desire of smoking, and to manage systematic refrain from smoking with connecting it to computer as well as to experience various preference of electronic cigarette according to user’s taste.

[0009] In order to attain such purpose, this invention of electronic cigarette is formed with a cartridge part (10) in which liquecence is stored, a combustion part (20) which makes evaporate the cigarette liquecence stored in above cartridge and a battery which supplies power source to above combustion part (20).

[0010] Above battery part is formed with a contact inlet (100) being equipped with a contact terminal on the upside in order to connect with a combustion part (20) electrically, and the bottom of above contact inlet is formed with a control means (200) which has the function of analyzing and outputting data according to the fixed function. The control means is made to be operated by the inlet of feeding power source (300) and it is equipped with a bottom cap (320) to which a graft spring (321) is formed on the bottom in order to accommodate battery (310).

[0011] At this time, above control means (200) is linked to bottom of a contact inlet (100) and formed with a cylinder shaped frame (210) made with transparent or semi-transparent materials, and inside above frame (210), a circuit board (220) is formed, and a display part (230) is formed in order to send signal of the board (220).

[0012] On the other hand, at a side of above frame’s circumference, a control button (240) is formed in order to control operation of above circuit board (220), and at the bottom of control button (240), control lever (250) is equipped to do round movement toward one-way or the other way.

[0013] At this time, when above control means (200) contacts with a combustion part (20), it is formed with a resistance output part (260) which indicates the resistance value of atomizer built in the combustion part (20).

[0014] At this time, above control means (200) is formed with a voltage control part (270) which enables to control voltage supplied from battery (320), in order to control the quantities of vaporization according to user’s taste.

[0015] At this time, above control means (200) is formed with a smoke check part (280) in order to indicate frequency of smoking subject to the number of user’s smoking and battery charges.

[0016] Also, above smoking check part (280) is formed with a setting part of restricting frequency of smoking (281) in order that power source is intercepted when the frequency of user’s smoking reaches at the set value.

[0017] At this time, above control means (200) is formed with a part of setting times (290) in order to indicate date and time.

[0018] Also, above control means (200) is formed with a USB connector (400) which makes enable to record and control the established function being connected with computer.

[0019] Accordingly, this invention provides satisfaction similar to smoking ordinary cigarette as well as it has a strong point to record and control user’s smoking more systematically by the control part which is equipped with multifunction in order to promote user’s refrain from smoking.

[0020] Also, with controlling the degree of cigarette vaporization depending on user’s hobby, it provides various cigarette taste and has an effect to satisfy various users as even beginner can use easily and conveniently.

BRIEF DESCRIPTION OF THE DRAWINGS

[0021] FIG. 1 is an askew view of smart electronic cigarette which has multifunctional control means.
[0022] FIG. 2 is a cross section which has multifunctional control means.

[0023] FIG. 3 indicates the state of display part (230).

[0024] FIG. 4 is a rough circuit figure which has multifunctional control means.

DETAILED DESCRIPTION

[0025] As seen in FIG. 1, in the electronic cigarette consisting of a cartridge part (10) in which liqueescence is stored, a combustion part (20) which makes evaporate the cigarette liqueescence stored in said cartridge part and a battery part which supplies power source to said combustion part (20), the battery part is formed with a contact inlet (100) being equipped with a contact terminal (110) on the top side in order to connect with a combustion part (20) electrically, and on the bottom of said contact part, a control means (200) which has the function of analyzing and outputting data according to the fixed function is formed.

[0026] The control means is made to be operated by the inlet of feeding power source (300) and it is equipped with a bottom cap (230) in which a gasket spring (321) is formed on the bottom in order to accommodate battery (310).

[0027] At this time, above control means (200) is linked to bottom of a contact inlet (100) and formed with a cylinder shaped frame (210) made with transparent or semi-transparent materials, and inside above frame (210), a circuit board (220) is formed, and display part (230) is formed in order to send signal of the board (220).

[0028] In addition, at a side of above frame’s circumference, control bottom (240) is formed in order to control operation of above circuit board (220), and at the bottom of control button (240), control lever (250) is equipped to do round movement toward one-way or the other way.

[0029] At this time, above circuit board (220) is recommended to use PCB circuit board and is formed in order to output the function set up with control button (240) and control lever (250) to the display part (230).

[0030] Also, it is desirable that above display part (230) is formed with a LED or LCD panel and it is made in order to indicate the function fixed by control means (200) as seen in the FIG. 3.

[0031] At this time, above control means (200) is formed so that the fixed function may be effeacted with being connected with a circuit board (220) and it is desirable to be formed that the function of ON/OFF and Enter can be operated.

[0032] At this time, above control lever (250) is formed as a Jog-shuttle shape and it recommends to be formed to play the function of ± and a direction key.

[0033] As seen in the FIG. 4, the fixed function of above control means (200) consists largely of resistance output part (260), voltage control part (270), smoking check part (280) and time setting part (290).

[0034] At this time, above resistance output part (260) is formed so that the resistance value of atomizer inserted inside combustion part (20) is indicated when above contact inlet (100) is connected with combustion part (20).

[0035] Namely, as above resistance output part (260) indicates the resistance value of atomizer, it makes enable to select an atomizer suitable for the user’s preference and to know a short skirt and the life of atomizer.

[0036] Also, above voltage control part (270) is formed to be able to control voltage supplied from battery (320) so that it controls the quantity of vaporization according to user’s taste.

[0037] At this time, above voltage control part (270) is used with a variable resistor (regulator) being employed at an ordinary direct current circuit and every maker is able to apply it easily.

[0038] This voltage control part (270) controls voltage for regulating the strength of power source supplied from battery, as the higher the voltage, the richer the quantities of smoke evaporated from combustion part (20) and it gives an effect to feel strong taste of cigarette.

[0039] On the other hand, above control means (200) is formed with a smoke check part (280) in order to output the number of user’s smoking and possible number of smoking basing on the battery charges.

[0040] That is, it makes user enable to confirm the frequency of his smoking and has the purpose of deciding proper time to charge the battery.

[0041] At this time, above smoke check part is equipped with a setting part of restricting the number of smoke in order that power source is intercepted when the value of setting the number of smoking reaches at the value restricted.

[0042] This smoke check part (280) aims at making user stop smoking easily, when he wants smoking no more, it lets user refrain from smoking coercively according to limitation of the number of smoking.

[0043] Also, above time setting part (290) is formed so that it may indicate date and time.

[0044] That is, when user does not use electronic cigarette, it has not only the purpose of seeking user’s convenience with the function as an electronic cigarette and with adding the function as a clock with making fixed date and time output through display part (230).

[0045] Also, above control means (200) is formed with a USB connector which makes enable to record and control a fixed function being connected with computer.

[0046] Namely, with above control means connecting to computer and through a separate program, it aims at promoting user’s refrain from smoking with recording and controlling the quantities and frequency of user’s daily smoking systematically.

[0047] The advantage of this invention is not limited to the above, and from the technology contained in this invention without getting out of the essentials of this application, whoever having common knowledge about the technology of this invention is able to operate various modification which would be within the scope of this application.

100 contact inlet
200 control means
220 circuit panel
240 control button
260 resistance output part
280 smoke check part
310 part of setting time
311 gasket spring
330 power source supplying inlet
110 connection terminal
210 frame
230 display part
250 control lever
270 voltage control part
281 part of setting limitation of smoking
What is claimed is:

1. In the electronic cigarette consisting of a cartridge part (10) in which liquefication is stored,
a combustion part (20) which evaporates the cigarette liquefication stored in above cartridge and battery which supplies power source to above combustion part (20),

Smart electronic cigarette with multifunctional control means that above battery part is formed with a contact inlet (100) being equipped with a contact terminal on the upside in order to connect with combustion part (20) electrically, and on the bottom of above contact part,
control means (200) having the function of analyzing and outputting data according to the fixed function is formed.

The control means is made to be operated by the inlet of feeding power source (300) and it is equipped with a bottom cap (320) which a gait spring (321) is formed on the bottom in order to accommodate battery (310).

2. A smart electronic cigarette with multifunctional control means according to claim 1, wherein the control means (200) is linked to bottom of a contact inlet (100) and formed with a cylinder shaped frame (210) made with transparent or semi-transparent materials, and inside above frame (210), circuit board (220) is formed, and display part (230) is formed in order to send signal of the board (220), and on the other hand, at a side of above frame’s circumference, control bottom (240) is formed in order to control operation of above circuit board (220), and at the bottom of control button (240), control lever (250) is equipped to do round movement toward one-way or the other way.

3. A smart electronic cigarette with multifunctional control means according to claim 2, wherein when above control means (200) contacts with combustion part (20), it is formed with a resistance output part (260) which indicates the resistance value of atomizer built in combustion part (20).

4. A smart electronic cigarette with multifunctional control means according to claim 2, wherein above control means (200) is formed with a voltage control part (270) which enables to control voltage supplied from battery (320), in order to control the quantities of vaporization according to user’s taste.

5. A smart electronic cigarette with multifunctional control means according to claim 2, wherein above control means (200) is formed with a smoke check part (280) in order to send frequency of smoking subject to the number of user’s smoking and battery changes.

6. A smart electronic cigarette with multifunctional control means according to claim 5, wherein above smoke check part (280) is formed with a part of setting restriction of smoking (281) in order that supplying power source is intercepted when the frequency of user’s smoking reaches the set value.

7. A smart electronic cigarette with multifunctional control means according to claim 2, wherein above control means (200) is formed with a part of setting time (290) in order to indicate date and time.

8. A smart electronic cigarette with multifunctional control means according to claim 2, wherein above control means (200) is formed with a USB connector (400) which makes enable to record and control fixed functions being connected with computer.

9. A smart electronic cigarette with multifunctional control means according to claim 3, wherein above control means (200) is formed with a USB connector (400) which makes enable to record and control fixed functions being connected with computer.

10. A smart electronic cigarette with multifunctional control means according to claim 4, wherein above control means (200) is formed with a USB connector (400) which makes enable to record and control fixed functions being connected with computer.

11. A smart electronic cigarette with multifunctional control means according to claim 5 wherein above control means (200) is formed with a USB connector (400) which makes enable to record and control fixed functions being connected with computer.

12. A smart electronic cigarette with multifunctional control means according to claim 6 wherein above control means (200) is formed with a USB connector (400) which makes enable to record and control fixed functions being connected with computer.

13. A smart electronic cigarette with multifunctional control means according to claim 7 wherein above control means (200) is formed with a USB connector (400) which makes enable to record and control fixed functions being connected with computer.

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