Claims

1. A battery section of an electronic vaping device, the battery section comprising:

a housing extending in a longitudinal direction, the housing having a first end and a second end;

a power supply in the housing;

a control circuit in the housing; and

a conductive contact assembly at the second end of the housing, the contact assembly electrically connecting the power supply and the control circuit, the contact assembly configured to receive external power and to be used to input at least one touch command to control the e-vaping device, wherein the control circuit is configured to detect at least one of a change in resistance and a change in capacitance of the contact assembly so as to detect the at least one touch command.

2. The battery section of claim 1, wherein the contact assembly comprises:
a first contact, and
a second contact insulated from the first contact.

3. The battery section of claim 2, wherein the first contact comprises a charge anode and the second contact comprises a charge cathode, and

wherein the control circuit includes

a switch configured to electrically separate the charge cathode from a common ground plane.

4. The battery section of claim 2 or 3, wherein one of the first contact and the second contact is generally ring-shaped and one of the first contact and the second contact forms at least a portion of an end wall of the battery section, the end wall extending generally transverse to the longitudinal direction.

5. The battery section of claim 4, wherein the first contact is the end wall and the second contact is generally ring-shaped and extends about a perimeter of the end wall.

6. The battery section of claim 5, wherein the contact assembly further comprises:

an end cap housing configured to hold the first contact therein, the end cap housing including at least one slot.

7. The battery section of claim 6, wherein the second contact is integrally formed with at least one tab extending in the longitudinal direction, the at least one tab configured to be received in the at least one slot.

8. The battery section of claim 6 or 7, wherein the end cap housing includes a generally cylindrical sidewall, the sidewall defining an orifice extending through the end cap housing, a first portion of the generally cylindrical sidewall being received within the housing at the second end thereof and a second portion of the sidewall not within the housing, the second portion being substantially transparent.

9. The battery section of any of claims 4 to 8, wherein the end wall is substantially opaque.

10. The battery section of any of claims 4 to 9, wherein the end wall includes a printed circuit board.

11. The battery section of any of claims 2 to 10, wherein at least one of the first contact and the second contact is magnetic.

12. The battery section of any of claims 2 to 11, wherein at least one of the first contact and the second contact is formed of at least one of stainless steel, gold, or silver.

13. An electronic vaping device comprising:

a housing extending in a longitudinal direction, the housing having a first end and a second end;

a power supply in the housing;

a control circuit in the housing;

a conductive contact assembly at the second end of the housing, the contact assembly electrically connecting the power supply and the control circuit, the contact assembly configured to receive external power and to be used to input at least one touch command to control the e-vaping device;

a reservoir configured to contain a pre-vapor formulation; and

a heater configured to heat the pre-vapor formulation, the heater electrically connected to the power supply,

wherein the control circuit is configured to detect at least one of a change in resistance and a change in capacitance of the contact assembly so as to detect the at least one touch command.

14. The electronic vaping device of claim 13, wherein the contact assembly comprises:

a first contact, and

a second contact insulated from the first contact.

15. The electronic vaping device of claim 14, wherein the first contact comprises a charge anode and the second contact comprises a charge cathode, and

wherein the control circuit includes

a switch configured to electrically separate the charge cathode from a common ground plane.

16. The electronic vaping device of claim 14 or 15, wherein the second contact is generally ring-shaped and the first contact forms at least a portion of an end wall, the end wall of the battery section extending generally transverse to the longitudinal direction.

17. The electronic vaping device of claim 16, wherein the contact assembly further comprises:

an end cap housing configured to hold the first contact therein, the end cap housing including at least one slot, the second contact being integrally formed with at least one tab extending in the longitudinal direction, the at least one tab configured to be received in the at least one slot.

18. The electronic vaping device of any of claims 13 to 17, wherein the electronic vaping device includes a battery section and a first section, the battery section containing the power supply, the control circuit, and the conductive contact assembly, and the first section containing the reservoir and the heater.