CLAIMS

What is claimed is:

1. A device for generating aerosol, comprising:

a) a consumable-containing unit;

b) a susceptor embedded within the consumable-containing unit;

c) an encasement encasing the consumable-containing unit and the susceptor, wherein the encasement has a first end and a second end opposite the first end, wherein the encasement comprises an opening;

d) a coating to plug the opening; and

e) a filter configured to surround the encasement in a manner that eliminates a gap between the filter and the encasement.

2. The device of claim 1, wherein the filter covers the plugged opening.

3. A device for generating aerosol, comprising:

a) a consumable-containing unit;

b) a susceptor embedded within the consumable-containing unit;

c) an encasement encasing the consumable-containing unit and the susceptor, wherein the encasement has a first end and a second end opposite the first end, wherein the encasement comprises an opening; and

d) a coating to plug the opening, wherein the consumable-containing unit comprises two pellets of a powdered consumable, wherein the susceptor is sandwiched in between the two pellets.

4. A device for generating aerosol, comprising:

a) a consumable-containing unit;

b) a susceptor embedded within the consumable-containing unit;

c) an encasement encasing the consumable-containing unit and the susceptor, wherein the encasement has a first end and a second end opposite the first end, wherein the encasement comprises an opening;

d) a coating to plug the opening, wherein the susceptor is a metal plate, wherein the metal plate comprises a plurality of openings.

5. A method of manufacturing a device for generating aerosol, comprising

a. embedding a susceptor into a consumable-containing unit;

b. placing the consumable-containing unit and the susceptor into an encasement, wherein the encasement has a first end and a second end opposite the first end, wherein the encasement comprises an opening;

c. applying a coating onto the opening;

d. placing the encasement into a filter; and

e. placing the filter containing the encasement into a housing.

6. The method of claim 5, wherein the consumable-containing unit is pressed into a pellet to minimize oxygen within the pellet.

7. The method of claim 6, wherein the consumable-containing unit is mixed with an additive to minimize oxygen within the pellet.

8. The method of claim 7, further comprising placing a plurality of encasements stacked

inside the filter.

9. The method of claim 8, wherein the encasements are separated from each other by a fold created in one or more ends of the encasement.

10. A device for generating aerosol, comprising:

a) a consumable-containing unit;

b) a susceptor embedded within the consumable-containing unit;

c) a heating element configured to at least partially surround the consumable-containing unit;

d) a controller to control the inductive heating element; and

e) a case to contain the consumable-containing unit, the susceptor, the inductive heating element, and the controller; and

f) a self-resonant oscillator for controlling the heating element, wherein the self-resonant oscillator comprises a capacitor operatively connected to the heating element, wherein the heating element comprises a plurality of coiled wires each coiled wire operatively connected to the controller for activation independent of the other coiled wires.

11. A device for generating aerosol, comprising:

a) a consumable-containing unit;

b) a susceptor embedded within the consumable-containing unit;

c) a heating element configured to at least partially surround the consumable-containing unit;

d) a controller to control the inductive heating element; and

e) a case to contain the consumable-containing unit, the susceptor, the inductive heating element, and the controller, wherein the heating element is moveable, wherein the consumable-containing unit is an elongated member defining a first longitudinal axis, and wherein the inductive heating element is configured to move axially along the first longitudinal axis.

12. The device of claim 11, wherein the consumable-containing unit comprises a cylindrical magnet at one end of the consumable-containing unit, the cylindrical magnet defining a second longitudinal axis, wherein the heating element is a cylindrical coil wrapped around the consumable-containing unit, the cylindrical coil defining a third longitudinal axis, wherein the cylindrical magnet and the heating element are configured to maintain collinear alignment of the second longitudinal axis with the third longitudinal axis.

13. A device for generating aerosol, comprising:

a) a consumable-containing unit;

b) a susceptor embedded within the consumable-containing unit;

c) a heating element configured to at least partially surround the consumable-containing unit;

d) a controller to control the inductive heating element; and

e) a case to contain the consumable-containing unit, the susceptor, the inductive heating element, and the controller, wherein the heating element is moveable, wherein the susceptor is a multi-pronged susceptor.

14. The device of claim 13, wherein the heating element is configured to rotate about the consumable-containing unit.

15. The device of claim 14, wherein the multi-pronged susceptor comprises a plurality of prongs parallel to each other and embedded within the consumable-containing unit.

16. The device of claim 15, wherein the consumable-containing unit is an elongated member defining a first longitudinal axis, wherein the heating element is a coil wrapped around the consumable-containing unit to form a cylinder defining a second longitudinal axis, and wherein the heating element is configured to rotate about the consumable-containing unit in an eccentric path such that the second longitudinal axis aligns collinearly with each of the prongs of the multi-pronged susceptor at some point during the rotational movement of the heating element about the consumable-containing unit.

17. The device of claim 13, wherein the consumable-containing unit is an elongated member defining a longitudinal axis, and wherein the inductive heating element is configured to move radially relative to the longitudinal axis.

18. A device for generating aerosol, comprising:

a) a consumable-containing unit;

b) a susceptor embedded within the consumable-containing unit;

c) a heating element configured to at least partially surround the consumable-containing unit;

d) a controller to control the inductive heating element; and

e) a case to contain the consumable-containing unit, the susceptor, the inductive heating element, and the controller, wherein the susceptor is a multi-pronged susceptor.

19. The device of claim 18, wherein the multi-pronged susceptor comprises a plurality of prongs parallel to each other and embedded within the consumable-containing unit.

20. The device of claim 19, wherein the consumable-containing unit is an elongated member defining a first longitudinal axis, wherein the heating element is a coil wrapped around the consumable-containing unit to form a cylinder defining a second longitudinal axis, and wherein the consumable-containing unit is configured to rotate within the heating element in an eccentric path such that the second longitudinal axis aligns collinearly with each of the prongs of the multi-pronged susceptor at some point during the rotation of the consumable-containing unit within the heating element.

21. The device of claim 18, wherein the consumable-containing unit is an elongated member defining a first longitudinal axis, wherein the heating element is a coil wrapped around the consumable-containing unit to form a cylinder defining a second longitudinal axis, and wherein the consumable-containing unit is configured to move radially within the heating element such that the second longitudinal axis aligns collinearly with each of the prongs of the multi-pronged susceptor at some point during the movement of the consumable-containing unit within the heating element.

22. A device for generating aerosol, comprising:

a) a consumable-containing unit;

b) a susceptor embedded within the consumable-containing unit;

c) a heating element configured to at least partially surround the consumable-containing unit;

d) a controller to control the inductive heating element; and

e) a case to contain the consumable-containing unit, the susceptor, the inductive heating element, and the controller; and

f) a use sensor to detect whether a portion of the consumable-containing package being sensed had been heated beyond a predetermined temperature.

23. The device of claim 22, wherein the use sensor is a photoreflective sensor.

24. The device of claim 23, wherein the consumable-containing unit is contained in a consumable-containing package, and the consumable-containing package comprises a thermal sensitive dye that changes colors when heated to a predetermined temperature, wherein the change in color is detectable by the photoreflective sensor.