CLAIMS:

1. A nicotine powder delivery system, comprising:

an inhaler article comprising;

an inhaler body extending between a mouthpiece portion and a distal end portion;

a nicotine powder receptacle disposed within the inhaler body and between the mouthpiece portion and the distal end portion;

an air inlet port extending through the inhaler body and into the nicotine powder receptacle;

a mouthpiece air channel fluidly connecting the nicotine powder receptacle with a proximal end of the mouthpiece;

an end cap element disposed in the distal end portion, the end cap element formed of a piercable material that substantially closes a hole formed by a piercing element once a piercing element is removed;

a nicotine powder capsule containing nicotine powder is disposed within the nicotine powder receptacle, wherein the nicotine powder capsule rotates about a longitudinal axis when air flows from the air inlet port to the mouthpiece air channel,

wherein a piercing element may pass through the end cap element and form a single aperture through the wall of the nicotine powder capsule.

2. The nicotine powder delivery system of claim 1, wherein the air inlet port is off-set from the longitudinal axis of the nicotine powder capsule.

3. The nicotine powder delivery system according to claim 1 or 2, wherein the nicotine powder receptacle has a circular cross-sectional shape and the air inlet port is tangential to the nicotine powder receptacle.

4. The nicotine powder delivery system according to any one of the preceding claims, wherein the air inlet port comprises a first air inlet port and a second air inlet port.

5. The nicotine powder delivery system of claim 4, wherein the nicotine powder receptacle has a circular cross-sectional shape and the first air inlet port is tangential to the nicotine powder receptacle and the second air inlet port is tangential to the nicotine powder receptacle.

6. The nicotine powder delivery system of claim 5, the first air inlet port opposes the second air inlet port.

7. The nicotine powder delivery system according to any one of the preceding claims, wherein the nicotine powder receptacle has a circular cross-sectional shape and a first diameter and the nicotine powder capsule has a second diameter that is less than the first diameter, and the second diameter is in a range from about 80% to about 99% of the first diameter or the second diameter is in a range from about 90% to about 98% of the first diameter.

8. The nicotine powder delivery system according to any one of the preceding claims, wherein the end-cap element that has a resistance to draw (RTD) greater than about 120 mm WG and the nicotine powder delivery system has a resistance to draw (RTD) in a range from about 50 mm WG to about 100 mm WG.

9. The nicotine powder delivery system according to any one of the preceding claims, wherein the nicotine powder comprises particles comprising nicotine and having a mass median aerodynamic diameter of about 10 micrometres or less, or about 5 micrometres or less, or in a range from about 1 micrometres to about 3 micrometres.

10. The nicotine powder delivery system according to claim 9, wherein the particles comprising nicotine comprises nicotine salt or nicotine salt hydrate.

11. The nicotine powder delivery system according to claim 9 or 10, wherein the particles comprising nicotine comprise an amino acid coating, such as a leucine coating or L-leucine coating.

12. The nicotine powder delivery system according to claim 9 or 10, wherein the nicotine powder capsule contains particles comprising flavour and having a mass median aerodynamic diameter of about 20 micrometres or greater, or in a range from about 50 micrometres to about 150 micrometres.

13. The nicotine powder delivery system according to any one of the preceding claims, further comprising a piercing element that passes through the end-cap element and pierces a single aperture into the nicotine powder capsule.

14. An article containing a plurality of the nicotine powder delivery systems according to any one of the preceding claims, wherein a piercing element is fixed to the article and the piercing element passes through the end-cap element and pierces a single hole into the nicotine powder capsule and the nicotine powder delivery system is removed from the piercing element and article for consumption.

15. An article containing a plurality of the nicotine powder delivery systems according to any one of claims 1 to 13, wherein a plurality of piercing elements are fixed to the article, wherein the number of piercing elements is equal to the number of nicotine powder delivery systems.

16. The article according to claim 15, wherein each of the plurality of piercing elements is registered and inserted into a corresponding nicotine powder capsule and forming a single aperture in the nicotine powder capsule.

17. The nicotine powder delivery system according to one of claims 1 to 13, wherein the end cap element comprises cellulose acetate.