CLAIMS

1. A heat-not-burn cigarette, comprising a tobacco section (1), a cavity container section (6) and a mouthpiece (4) connected sequentially and co-axially, and an outer wrapping material (5) that limits the tobacco section (1), the cavity container section (6) and the mouthpiece (4); the tobacco section (1) contains smoke generation materials;

the cavity container section (6) has ~~a single cavity or~~ multiple cavities removably connected to one another; each cavity has one end along an axial direction thereof being an opening, and another end along the axial direction thereof being a bottom wall or end surface, ~~the opening of the cavity is provided with a cap (9),~~ the multiple cavities are connected one another by inserting and fixing the bottom wall of one cavity into the opening of the other cavity, and the opening at the end of multiple connected cavities is also provided with a cap (9), the cavity container section (6) has air holes to allow air to flow through the cavity container section (6) along a direction upstream and downstream of the heat-not-burn cigarette, ~~in case of a single cavity container section, the air holes are provided at two side surfaces of the single cavity container section, in case of multiple-cavity container section,~~ the air holes are provided at two side surfaces of the multiple-cavity container section and at each wall separating two adjacent cavities.

2. The heat-not-burn cigarette of claim 1, wherein the multiple cavities of the cavity container section (6) are filled with one or combinations of water, flavored liquids, aroma beads and cooling materials.

3. The heat-not-burn cigarette of claim 2, wherein a cavity of the cavity container section (12) filled with water or flavored liquids is provided with films (12a) which are air-permeable but liquid-impermeable at two sides thereof respectively along an axial direction of the heat-not-burn cigarette.

4. The heat-not-burn cigarette of claim 1, wherein the cavity container section (6) is made of food-grade plastics, biodegradable plastics or whole plant extract materials.

5. The heat-not-burn cigarette of claim 1, wherein the tobacco section (1) has a core and compound aluminum foil shaping paper (2) or grease proof shaping paper wrapping around the core.

6. The heat-not-burn cigarette of claim 5, wherein the compound aluminum foil shaping paper (2) has a compound layer structure, having an inner layer being aluminum foil, and an outer layer being a shaping paper; the inner layer and the outer layer are adhered together to form the compound layer structure.

7. The heat-not-burn cigarette of claim 1, wherein a core of the tobacco section (1) is produced from recycled tobacco leaves, native tobacco or coated paper material.

8. The heat-not-burn cigarette of claim 7, wherein the core of the tobacco section (1) is added with one or combinations of tobacco extract, granular or powder form of tobacco, and aroma essence.

9. The heat-not-burn cigarette of claim 7, wherein the core of the tobacco section (1) produced from recycled tobacco leaves, native tobacco or coated paper material is chopped into thin and elongated strips (8) gathered as a bundle orienting along the axial direction of the heat-not-burn cigarette.

10. The heat-not-burn cigarette of claim 1, wherein the smoke generation materials comprise polyols and a mixture thereof; the polyols comprise propylene glycol, triethylene glycol, butylene glycol, and glycerol.

11. The heat-not-burn cigarette of claim 1, wherein a core of the mouthpiece (4) is made of acetate fiber material.

12. The heat-not-burn cigarette of claim 1, wherein the mouthpiece (4) is also provided with aroma enhancement element.

13. The heat-not-burn cigarette of claim 12, wherein the aroma enhancement element is liquid filled balls, or particles or powder materials that contain the aroma of tobacco itself or other kinds of aroma.

14. The heat-not-burn cigarette of claim 1, wherein the mouthpiece (4) is solid, or a tubular element having a through hole along an axial direction thereof.

15. The heat-not-burn cigarette of claim 14, wherein the through hole of the mouthpiece (4) has a cross section of a circular shape, a toothed gear shape or other shapes.

16. The heat-not-burn cigarette of claim 1, wherein additional supporting sections or functional sections are provided between the tobacco section (1) and the cavity container section (6) and/or between the cavity container section (6) and the mouthpiece (4); the tobacco section (1), the cavity container section

(6), the mouthpiece (4), and all the inserted additional supporting sections or functional sections are connected end to end co-axially.