Claims

1. An apparatus comprising a film heater configured to heat smokeable material to volatilize at least one component of the smokeable material for inhalation

wherein the apparatus comprises thermal insulation, and

wherein the thermal insulation comprises a core region which is evacuated to a lower pressure than an exterior of the insulation.

2. An apparatus according to claim 1, wherein the film heater is a polyimide film heater.

3. An apparatus according to claim 1 or 2, wherein the heater has a thickness of less than 1 mm.

4. An apparatus according to any preceding claim, wherein the heater has a thickness of less than 0.5 mm.

5. An apparatus according to any preceding claim, wherein the heater has a thickness of between approximately 0.2 mm and 0.0002 mm.

6. An apparatus according to any preceding claim, wherein the thermal insulation is integrated with the heater.

7. An apparatus according to any of claims 1 to 5, wherein the thermal insulation is lined with the heater.

8. An apparatus according to any of claims 1 to 5, wherein the thermal insulation is separated from the heater by a barrier.

9. An apparatus according to claim 8, wherein the barrier comprises a layer of stainless steel.

10. An apparatus according to any preceding claim, wherein wall sections of the insulation either side of the core region converge to a sealed gas outlet.

11. An apparatus according to any preceding claim, wherein a thickness of the insulation is less than approximately 1 mm.

12. An apparatus according to any preceding claim, wherein a thickness of the insulation is less than approximately 0.1mm.

13. An apparatus according to any preceding claim, wherein the apparatus comprises a mouthpiece for inhaling volatized components of the smokeable material.

14. An apparatus according to any preceding claim, wherein the apparatus is configured to heat the smokeable material without combusting the smokeable material.

15. A method of manufacturing an apparatus according to any preceding claim.

16. A method of heating smokeable material using an apparatus according to any of claims 1 to 14.

Claims

1. An apparatus comprising a film heater configured to heat smokeable material to volatilize at least one component of the smokeable material for inhalation,

wherein the apparatus comprises thermal insulation, and

wherein the thermal insulation comprises a core region which is evacuated to a lower pressure than an exterior of the insulation.

2. An apparatus according to claim 1, wherein the film heater is a polyimide film heater.

3. An apparatus according to claim 1 or 2, wherein the heater has a thickness of less than 1mm.

4. An apparatus according to any preceding claim, wherein the heater has a thickness of less than 0.5mm.

5. An apparatus according to any preceding claim, wherein the heater has a thickness of between approximately 0.2mm and 0.0002mm.

6. An apparatus according to any preceding claim, wherein the thermal insulation integrated with the heater.

7. An apparatus according to any one of claims 1 to 5, wherein the thermal insulation lined with the heater.

8. An apparatus according to any one of claims 1 to 5, wherein the thermal insulation separated from the heater by a barrier.

9. An apparatus according to claim 8, wherein the barrier comprises a layer of stainless steel.

10. An apparatus according to claim 9, wherein wall sections of the insulation either side of the core region converge to a sealed gas outlet.

11. An apparatus according to claim 9 or 10, wherein a thickness of the insulation is less than approximately 1mm.

12. An apparatus according claim 9 or 10, wherein a thickness of the insulation is less than approximately 0.1mm.

13. An apparatus according to any preceding claim, wherein the apparatus comprises a mouthpiece for inhaling volatized components of the smokeable material.

14. An apparatus according to any preceding claim, wherein the apparatus is configured to heat the smokeable material without combusting the smokeable material.

15. A method of manufacturing an apparatus according to any preceding claim.

16. A method of heating smokeable material using an apparatus according to any one of claims 1 to 14.