Claims

1. A ceramic heating element, comprising:

a heating body, wherein the heating body is cylindrical, and the heating body is internally provided with a porous channel; ~~and~~

a heating circuit, wherein the heating circuit is arranged on the heating body to heat air passing through the porous channel;~~.~~

~~2. The ceramic heating element according to claim 1,~~ wherein the heating body is a cylinder, and the porous channel is arranged in the heating body in the axial direction~~.~~; and

wherein the porous channel having through holes which are regularly distributed in the heating body.

~~3~~2. The ceramic heating element according to claim 1, wherein through holes of the porous channel are round holes or polygonal holes.

~~4. The ceramic heating element according to claim 1, wherein the through holes of the porous channel are regularly distributed in the heating body.~~

~~5~~3. The ceramic heating element according to claim ~~4~~1, wherein the hole diameter of the through holes is 0.1-2mm, and the distance between two adjacent through holes is 0.1-0.5mm.

~~6~~4. The ceramic heating element according to claim 1, wherein the heating body is made of aluminum oxide ceramics, aluminum nitride ceramics, silicon nitride ceramics, silicon carbide ceramics, beryllium oxide ceramics or zirconium oxide ceramics.

~~7~~5. The ceramic heating element according to claim ~~6~~4, wherein the aluminum oxide content in the aluminum oxide ceramics is greater than 99%, and the density of the aluminum oxide ceramics is not less than 3.86g/cm^3.

~~8~~6. The ceramic heating element according to any one of claims 1 to 5~~7~~, wherein the heating circuit is printed on the outer surface of the heating body in the thick film circuit mode.

~~9~~7. A non-contact heat not burn heating device, comprising:

the ceramic heating element according to any one of claims 1-~~8~~5;

a smoke product bearing assembly, wherein a cavity defined by the smoking product bearing assembly is suitable for placing a smoking product, and the smoking product bearing assembly separates the smoking product from the ceramic heating element; and

a sealing sleeve, wherein the sealing sleeve is arranged in the hollow mode to sleeve the ceramic heating element and the smoking product bearing assembly inside.

~~10~~8. The non-contact heat not burn heating device according to claim 9, wherein the smoking product bearing assembly comprises:

a ceramic tube, wherein a cavity defined by the ceramic tube is suitable for placing the smoking product; and

a blocking piece, wherein, the blocking piece is connected to the ceramic tube and adjacent to the ceramic heating element to separate the smoking product from the ceramic heating element.

~~11~~9. The non-contact heat not burn heating device according to claim ~~10~~8, wherein the ceramic tube is further used for preheating the smoking product.

10~~2~~. The non-contact heat not burn heating device according to claim ~~10~~8, wherein the blocking piece is a flow deflector located on an opening at one end of the ceramic tube and forming a cup body with the ceramic tube, and the flow deflector is provided with a plurality of deflector holes.

11~~3~~. The non-contact heat not burn heating device according to claim ~~10~~8, wherein the blocking piece forms a step surface extending along the wall of the ceramic tube to the center.

124. The non-contact heat not burn heating device according to claim ~~10~~8, wherein the wall of the ceramic tube extends out in the axial direction relative to the blocking piece to contain at least one part of the ceramic heating element.

135. The non-contact heat not burn heating device according to claim 10~~2~~, wherein the ceramic tube and the flow deflector are both made of the aluminum oxide ceramics, the aluminum nitride ceramics, the silicon nitride ceramics, the silicon carbide ceramics, the beryllium oxide ceramics or the zirconium oxide ceramics.