

- US11166340 B2

1. A composite ceramic atomizer, comprising:

a first main body and a second main body formed integrally with the first main body via a glazing and sealing process, with the first main body and the second main body being jointed via a glazed surface formed by glazing, and the glazed surface completely or partially covering the joint between the first main body and the second main body,

wherein the first main body includes a heating carrier and a conductive path for heating, the conductive path is formed on a surface of or inside the heating carrier and includes a first contact part and a second contact part both configured for connecting to a power supply, and the second main body is used for liquid transmission,

wherein the conductive path completely or partially forms a resistance heating layer,

wherein a distance between the resistance heating layer and the second main body is less than or equal to a thickness of the first main body,

wherein the glazed surface uses a transparent glaze comprising the following components by mass percent: transparent frit 80%-94%, kaolin 5%-19% and carboxymethyl cellulose (CMC) 0.2%-1%, and

wherein chemical compositions of the transparent frit comprise, by mass percent,  $\text{SiO}_2$  40%-60%,  $\text{Al}_2\text{O}_3$  2%-15%,  $\text{Na}_2\text{O}$  0-8%,  $\text{K}_2\text{O}$  0-5%,  $\text{ZnO}$  3%-15%,  $\text{BaO}$  2%-10%,  $\text{CaO}$  5%-15% and  $\text{MgO}$  0%-10%.