- US 22512284 B2

1. An atomizer of electronic cigarette, comprising:

an atomizing assembly,

a smoke duct, and

a cigarette holder,

wherein the smoke duct comprises a liquid storing cavity for storing tobacco liquid and a smoke flue, the smoke duct is in a fitted mounting respectively with the atomizing assembly and the cigarette holder,

wherein the atomizing assembly comprises:

a heating module, comprising a ceramic base and a heating wire winding around the ceramic base, the ceramic base being of a hollow micropore structure and communicated with the liquid storing cavity; and

a cartridge, comprising an upper cartridge and a lower cartridge, the heating module being longitudinally disposed between the upper cartridge and the lower cartridge, the upper cartridge comprising a first air channel communicated with the smoke flue and a liquid channel communicated with the liquid storing cavity, and the lower cartridge comprising a second air channel communicated with the first air channel, and

wherein the heating wire is electrically connected with the upper cartridge and the lower cartridge respectively, and the hollow micropore structure of the ceramic base is communicated with the liquid storing cavity through the liquid channel;

wherein the atomizing assembly further comprises an atomizing core casing in a fitted mounting with the upper and lower cartridges respectively, the atomizing core casing comprising an air cavity which is communicated with the first air channel and the second air channel respectively;

wherein the upper cartridge is disposed at a top of the atomizing core casing and further comprises a first accommodating groove for accommodating the heating module; the first accommodating groove is used for fixing the ceramic base, and a sealant is disposed between the first accommodating groove and the ceramic base;

wherein the first accommodating groove is provided with a channel port at an end of the liquid channel at a groove bottom; and the hollow micropore structure of the ceramic base is communicated with the liquid channel through the channel port at the end of the liquid channel; a channel port at an other end of the liquid channel is disposed on a side face of the upper cartridge, and is communicated with the liquid storing cavity;

wherein a vent port at one end of the first air channel is disposed at a bottom face of the upper cartridge and communicated with the air cavity; a vent port at an other end of the first air channel is disposed in a center of a top of the upper cartridge and is communicated with the smoke flue.