What is claimed is:

1. A heating atomization core, comprising an atomization core housing (30), wherein a cylindrical liquid transfer unit (33) is arranged in the atomization core housing (30), and a heating element (31) is attached to an inner wall of the liquid transfer unit (33) and is connected to an electrode (32);

a liquid transfer hole (301) for transferring liquid into the liquid transfer unit (33) is formed in a side wall of the atomization core housing (30);

the liquid transfer unit (33) is a cylindrical structure formed by rolling multiple layers of liquid transfer cloth in a stacked manner, the multiple layers of liquid transfer cloth comprise:

2-6 layers of vertical-grain liquid transfer cloth (332), wherein at least part of the grains on each of the layers of vertical-grain liquid transfer cloth (332) correspond to each other in a radial direction, such that a heating circuit of the heating element (31) is at least partially inlaid in the micro-grooves or between the adjacent micro-ridges formed by the grains,

or

2-6 layers of horizontal-grain liquid transfer cloth (331), wherein at least part of the grains on each of the layers of horizontal-grain liquid transfer cloth (331) correspond to each other in a radial direction; or, at least part of the grains on the adjacent layers of horizontal-grain liquid transfer cloth (331) are staggered in the radial direction

or

at least one layer of vertical-grain liquid transfer cloth (332) and at least one layer of horizontal-grain liquid transfer cloth (331),

wherein when comprising the vertical-grain liquid transfer cloth (332), the vertical-grain liquid transfer cloth (332) has micro-grooves or/and micro-ridges formed by grains which are arranged vertically on the whole, and when comprising the horizontal-grain liquid transfer cloth (331), the horizontal-grain liquid transfer cloth (331) has micro-grooves or/and micro-ridges formed by grains which are arranged horizontally on the whole; and

a fixing member (34) for fixing the electrode (32) is arranged in the atomization core housing (30) below the liquid transfer unit (33), and an air inlet (341) is formed in the fixing member (34).

2. The heating atomization core according to Claim 1, wherein when comprising the vertical-grain liquid transfer cloth (332), the grains on the vertical-grain liquid transfer cloth (332) are straight grains, curved grains, or grains formed by at least one of the straight grains and the curved grains, at least part of the grains on the vertical-grain liquid transfer cloth (332) extends from top to bottom, and when comprising the horizontal-grain liquid transfer cloth (331), the grains on the horizontal-grain liquid transfer cloth (331) are straight grains, curved grains, or

grains formed by at least one of the straight grains and the curved grains, at least part of the grains on the horizontal-grain liquid transfer cloth (331) extend from one end to the other end.

3. The heating atomization core according to Claim 1, wherein the grains on the vertical-grain liquid transfer cloth (332) are matched in shape with at least part of the heating element (31).

4. The heating atomization core according to Claim 1, wherein the grains on the horizontal grain liquid transfer cloth (331) are radial from a centre as the liquid transfer hole (301) to two sides; or,

a density of the grains on the horizontal-grain liquid transfer cloth (331) in the vicinity of the liquid transfer hole (301) is greater than that of the grains in other positions; or,

the grains on the horizontal-grain liquid transfer cloth (331) are arranged horizontally and uniformly.

5. The heating atomization core according to Claim 1, wherein a vertical slot (302) is formed in a side wall of the atomization core housing (30), and two horizontal ends of the multiple layers of liquid transfer cloth are clamped in the vertical slot (302) to be fixed.

6. The heating atomization core according to Claim 1, wherein at least two vertical slots (302) are formed in a side wall of the atomization core housing (30), wherein at least one of two horizontal ends of the multiple layers of liquid transfer cloth is clamped in one said vertical slot (302); or,

the multiple layers of liquid transfer cloth have multiple segments, and ends of every two adjacent said segments are clamped in one said vertical slot (302) to be fixed.

7. The heating atomization core according to Claim 1, wherein the atomization core housing (30) is a cylindrical structure, and

two horizontal ends of each of the multiple layers of liquid transfer cloth are connected, such that multiple stacked cylindrical structures are formed; or, two horizontal ends of the multiple layers of liquid transfer cloth are connected to form an integrated cylindrical structure.

8. The heating atomization core according to Claim 1, wherein the vertical-grain liquid transfer cloth (332) is woven from linen-cotton fibres, and the horizontal-grain liquid transfer cloth (331) is woven from spunlace non-woven fibres.

9. The heating atomization core according to Claim 1, wherein a lower portion of the electrode (32) is bent to be attached to an inner wall of the atomization core housing (30), the fixing member (34) matches the atomization core housing (30) in shape, and the electrode (32) is pressed and fixed by the fixing member (34); or, the fixing member (34) is an elastic element, and the electrode (32) is pressed and fixed in the atomization core housing (30) by the fixing member (34).

10. The heating atomization core according to Claim 1, wherein a groove is formed in an outer wall of the fixing member (34), and the electrode (32) is clamped in the groove and is fixed in the atomization core housing (30) by the fixing member (34); or,

a fixing hole is formed in the fixing member (34), and the electrode (32) penetrates through the fixing hole to be fixed.

11. A heating atomization mechanism, comprising an atomizer housing (20), wherein the heating atomization core according to any one of Claims 1-10 is arranged in the atomizer housing (20), top and bottom of the atomizer housing (20) are sealed by a top sealing element (21) and a bottom sealing element (23) respectively, a liquid chamber is formed between the heating atomization core and the atomizer housing (20), and liquid storage cotton (22) for storing electronic cigarette liquid is arranged in the liquid chamber.

12. A heating atomizer, comprising the heating atomization mechanism according to Claim 11, wherein a guide tube (11) is arranged at a centre of the heating atomization mechanism, the guide tube (11) has an end connected to the heating element (31) of the heating atomization core and another end connected to a mouthpiece (10) such that mist atomized by the heating element (31) is guided into the mouthpiece (10) from the guide tube (11).

13. An electronic atomization device, comprising the heating atomizer according to Claim 12 arranged at a top, a power supply device (4) arranged in a middle, and a control device (5) arranged at a bottom, wherein the power supply device (4) is electrically connected to the heating atomizer and the control device (5).