method of the adhesive element of the present invention, the inductance distribution is averaged.

[0043] Please refer to FIG. 8A. FIG. 8A schematically illustrates a section view of the first magnetic portion and the second magnetic portion of the magnetic core and the first groove thereof of a choke according to an embodiment of the present invention. As shown in FIG. 8A, the first magnetic portion 201 of the magnetic core 20 of the choke 2 of the present invention includes a first groove 204a, and the first groove 204a is annularly formed on the two first angles $\theta 1$ for receiving at least one coil turn 210 of the plurality of the coil turns 210 of the insulated wire 21. Moreover, the second magnetic portion 202 may also include a first groove 204b, and the first groove 204b is annularly formed on the two second angles $\theta 2$ for receiving at least one coil turn 210 of the plurality of the coil turns 210 of the insulated wire 21. Therefore, the insulated wire 21 is located through the first grooves 204a, 204b to stably form the coil turns 210.

[0044] On the other hand, in the equivalent embodiments, please refer to FIG. 8B. FIG. 8B schematically illustrates a section view of the winding portion of the magnetic core and the first grooves thereof of a choke according to an embodiment of the present invention. The winding portion 200 of the magnetic core 20 of the choke 2 of the present invention includes two first grooves 204c, and the two first grooves 204c are respectively formed on the two first angles $\theta 1$ and the two second angles $\theta 2$ for receiving at least two coil turns 210 of the plurality of the coil turns 210 of the insulated wire 21. That is, at least two coil turns 210 are respectively accommodated in the two first grooves 204c located on the

two first angles $\theta 1$ and the two first grooves 204c located on the two second angles $\theta 2$, but not limited thereto.

[0045] Please refer to FIG. 9. FIG. 9 schematically illustrates a section view of the magnetic core and the first grooves and the second grooves thereof of a choke according to an embodiment of the present invention. As shown in FIG. 9, the first magnetic portion 201 and the second magnetic portion 202 further include at least one second groove 205. The second groove 205 is disposed adjacent to the first groove 204, and each second groove 205 is used for receiving a coil turn 210 of the plurality of the coil turns 210 of the insulated wire 21.

[0046] Certainly, the concept of the second groove 205 can be extended and utilized on the magnetic portion 200. Please refer to FIG. 10A and FIG. 10B. FIG. 10A schematically illustrates a section view of the magnetic core and the first grooves thereof of a choke according to another embodiment of the present invention. FIG. 10B schematically illustrates a section view of the magnetic core and first grooves and the second grooves thereof of a choke according to another embodiment of the present invention. As shown in FIG. 10A and FIG. 10B, the magnetic portion 200 of the magnetic core 20 of the choke 2 of the present invention further includes at least one second groove 205. The second groove 205 is disposed adjacent to the first groove 204, and each second groove 205 is used for receiving a coil turn 210 of the plurality of the coil turns 210 of the insulated wire 21. As a result, via the auxiliary locating first grooves 204 and second groove 205, the plurality of coil turns 210 are tightly and stably formed, such that the inductance distribution is averaged.

[0047] Please refer to FIG. 11 and FIG. 12. FIG. 11 schematically illustrates a section view of the choke and the electrodes thereof according

WHAT IS CLAIMED IS:

1. A choke, comprising:

a magnetic core comprising:

a winding portion having a first end and a second end;

a first magnetic portion connected with the first end of the winding portion for forming two first angles disposed opposite to each other with the winding portion, wherein the first magnetic portion includes a first side surface disposed opposite to the first end and a first trench and a second trench formed on the first side surface; and

a second magnetic portion connected with the second end of the winding portion for forming two second angles disposed opposite to each other with the winding portion, wherein a winding space is defined by the first magnetic portion, the winding portion and the second magnetic portion, and the two second angles are disposed opposite to the two first angles in the winding space, and wherein the second magnetic portion includes a second side surface disposed opposite to the second end and a third trench and a fourth trench formed on the second side surface; and

an insulated wire formed as a first electrode in the third trench, formed as a second electrode in the first trench, wound on the winding portion from the first angle in the winding space to form a plurality of coil turns, formed as a third electrode in the fourth trench, and formed as a fourth electrode in the second trench, wherein the coil turns contacted with the winding portion are disposed at a first degree to the coil turns contacted with the first magnetic portion, and the coil turns contacted with the winding portion are disposed at a second degree to the coil turns contacted with the second magnetic portion,

wherein the degree of the first angle is greater than 90 degrees, and the degree of the second angle is greater than 90 degrees.

2. The choke according to claim 1, wherein the first magnetic portion further

comprises two first guiding angles, and wherein the two first guiding angles are formed on two sides of the first magnetic portion, disposed adjacent to the winding space and opposite to each other.

3. The choke according to claim 1, wherein the second magnetic portion further comprises two second guiding angles, and wherein the two second guiding angles are formed on two sides of the second magnetic portion, disposed adjacent to the winding space and opposite to each other.
4. The choke according to claim 1, wherein the degree of each of the first angle is equal to the first degree, and the degree of each of the second angle is equal to the second degree.
5. The choke according to claim 1, wherein the degree of the first angle is equal to the degree of the second angle.
6. The choke according to claim 1, wherein the winding portion includes two first grooves, and wherein the two first grooves are respectively formed on the two first angles and the two second angles for receiving at least two coil turns of the plurality of the coil turns of the insulated wire.
7. The choke according to claim 6, wherein the winding portion further includes at least one second groove, and wherein the second groove is disposed adjacent to the first groove, and each second groove is used for receiving a coil turn of the plurality of the coil turns of the insulated wire.
8. The choke according to claim 1, wherein the first magnetic portion includes a first groove, and wherein the first groove is annularly formed on the two first angles for receiving at least one coil turn of the plurality of the coil turns of the insulated wire.
9. The choke according to claim 8, wherein the first magnetic portion further includes at least one second groove, and wherein the second groove is disposed adjacent to the first groove, and each second groove is used for receiving a coil turn of the plurality of the coil turns of the insulated wire.
10. The choke according to claim 1, wherein the second magnetic portion

includes a first groove, and wherein the first groove is annularly formed on the two second angles for receiving at least one coil turn of the plurality of the coil turns of the insulated wire.

11. The choke according to claim 10, wherein the second magnetic portion further includes at least one second groove, and wherein the second groove is disposed adjacent to the first groove, and each second groove is used for receiving a coil turn of the plurality of the coil turns of the insulated wire.
12. The choke according to claim 1 further comprising a magnetic glue, wherein the magnetic glue is filled with the winding space for covering the insulated wire to form an adhesive element.
13. The choke according to claim 1, wherein the first electrode and the second electrode have the same electric potential, and the third electrode and the fourth electrode have the same electric potential.
14. The choke according to claim 1, wherein the first trench is disposed opposite to the third trench, and the second trench is disposed opposite to the fourth trench.
15. A choke, comprising:

a magnetic core comprising:

a winding portion having a first end and a second end;

a first magnetic portion connected with the first end of the winding portion for forming two first angles disposed opposite to each other with the winding portion, wherein the first magnetic portion includes a first side surface disposed opposite to the first end and a first trench and a second trench formed on the first side surface; and

a second magnetic portion connected with the second end of the winding portion for forming two second angles disposed opposite to each other with the winding portion, wherein a winding space is defined by the first magnetic portion, the winding portion and the second magnetic portion, and the two second angles are disposed opposite to the two first angles in

the winding space, and wherein the second magnetic portion includes a second side surface disposed opposite to the second end and a third trench and a fourth trench formed on the second side surface; and

an insulated wire formed as a first electrode in the first trench, wound on the winding portion from the first angle in the winding space to form a plurality of coil turns, formed as a second electrode in the fourth trench, and formed as a third electrode in the second trench, wherein the first electrode is connected with a fourth electrode formed in the third trench by the insulated wire or another wire.