CLAIMS:

1. A reaction chamber, comprising a chamber body, a dielectric window and a power supply unit, the dielectric window being provided above and hermetically connected with the chamber body, characterized in that, an outer side of the dielectric window is provided with a plurality of sets of coils arranged at an interval in a vertical direction and wound around the dielectric window, and the power supply unit supplies power to the plurality of sets of coils; wherein, current is fed by a lowest turn in an uppermost set of coil, and current is fed by an uppermost turn in a lowest set of coil.

2. The reaction chamber according to claim 1, characterized in that, the power supply unit comprises a power supply and a matcher, and the plurality of sets of coils are connected to the power supply via the matcher.

3. The reaction chamber according to claim 2, characterized in that, the number of the power supply is one; the plurality of sets of coils are connected in parallel and electrically connected to the power supply; and winding directions of two adjacent sets of coils are the same from a current feed point of view, so that a current in each set of coil has a same direction when the power supply supplies power to the plurality of sets of coils.

4. The reaction chamber according to claim 2, characterized in that, the number of the power supplies is plural, the number of the matchers corresponds to the number of the power supplies, and each power supply is electrically connected to one set of coil via one matcher; currents in the plurality of sets of coils have a same direction when the power supplies supply power to the coils.

5. The reaction chamber according to claim 2, characterized in that, the number of the power supplies is plural, the number of the matchers corresponds to the number of the power supplies, and each power supply is electrically connected to more than one set of coil via one matcher; and

for each power supply, a winding direction of the more than one set of coil