What is claimed is:

1. A grilling oven, characterized in that the grilling oven comprises an oven body and a grilling chamber encircled by the oven body;

an electrical heating device, a grilling grid and a fat catching plate are provided in the grilling chamber**;**

the electrical heating device is located at the top of the grilling chamber**;**

the fat catching plate is located at the bottom of the grilling chamber**;**

the grilling grid is located between the electrical heating device and the fat catching plate;

the grilling grid and the fat catching plate both are horizontally placed;

a fume exhauster;

the fume exhauster is placed on the oven body;

at least one gas passage is arranged inside the heat insulation layer;

one end of the gas passage is communicated with the grilling chamber, the other end of the gas passage is communicated with the fume exhauster;

the fat catching plate comprises a base plate and a filter board covering the base plate;

the filter board has a plurality of filtration holes.

2. The grilling oven according to claim 1, characterized in that a heat insulation layer is provided inside the oven body.

3. The grilling oven according to claim 1, characterized in that the grilling chamber has a plurality of grooves at different heights, the grilling grid is fitted into the grooves.

4. The grilling oven according to claim 1, characterized in that a raising and lowering device is provided inside the oven body; the raising and lowering device is

fixedly connected with the grilling grid.

5. The grilling oven according to claim 4, characterized in that the raising and lowering device comprises a first motor, a screw rod and a screw nut**;**

the screw rod is perpendicular to the grilling grid**;**

the screw nut embraces the screw rod and is connected with the screw rod via a thread;

the screw nut is fixedly connected with the grilling grid;

a motor shaft of the first motor is placed in parallel with the screw rod and is fixedly connected with the screw rod**.**

6. The grilling oven according to claim 4, characterized in that the grilling grid comprises a two-layer structure consisting of an upper grilling grid and a lower grilling grid;

the raising and lowering device comprises a first motor, a second motor, a screw rod and a screw nut;

the screw rod is perpendicular to the grilling grid;

the screw nut embraces the screw rod and is connected with the screw rod via a thread;

a motor shaft of the first motor is placed in parallel with the screw rod and is fixedly connected with the screw rod**;**

the second motor is fixed to the screw nut**;**

a motor shaft of the second motor is placed in parallel with the grilling grid, and the motor shaft of the second motor is fixedly connected with the upper grilling grid and the lower grilling grid via a connector.

7. The grilling oven according to claim 6, characterized in that the grilling oven further comprises a control unit, the control unit is electrically connected with the first motor, the second motor and the electrical heating device.

8. The grilling oven according to claim 1, characterized in that the filtration hole is funnel-shaped.