**WHAT IS CLAIMED IS:**

1. An under-induction system having a function of regenerating air, comprising:

a table to which a top plate for transmitting a magnetic field is coupled;

an induction unit fixedly installed at a lower side of the top plate and heating a designated container positioned at an upper side of the top plate;

a hood portion drawing in a gas generated when food is heated in the designated container, the hood portion being installed in the table;

a connection portion having a first end communicating with the hood portion and providing a moving path for the gas drawn in; and

an air regeneration unit communicating with a second end of the connection portion, wherein, after separating and removing foreign matter contained in the gas introduced from a first side of the air regeneration unit, the air regeneration unit discharges regenerated air to a second side of the air regeneration unit,

wherein the air regeneration unit includes:

a chamber portion;

a motor portion moving the gas within the chamber portion; and

a cell portion for electrical separation, disposed within the chamber portion and collecting oil particles and dust contained in the gas by an electrostatic action, and

wherein the cell portion includes:

a grid filter portion disposed on a face of the cell portion and made of a mesh net formed of a metal material, the grid filter portion filtering the oil particles and the dust having a viscosity;

an ionization portion configured such that the oil particles and the dust contained in the gas introduced through the grid filter portion have a first polarity; and

an adsorption filter portion, wherein a plurality of spacer plates having a second polarity is disposed in the adsorption filter portion to adsorb the oil particles and the dust having the first polarity.

2. The under-induction system of claim 1, wherein the air regeneration unit further includes a multi-filter portion disposed at a side of the chamber portion and including a plurality of different filter layers.