

MICROWAVE HEATING APPARATUS

ABSTRACT

A microwave heating apparatus has a magnetron, a circulator, a heating assembly, and an end assembly. The heating assembly has a base waveguide tube and a guiding tube obliquely mounted through the base waveguide tube. An included angle between the guiding tube line and the base waveguide tube is smaller than 90 degrees. The end assembly includes a reflecting component having a reflecting surface facing toward the guiding tube, and an adjusting module for adjusting a distance between the reflecting component and the guiding tube. By adjusting the included angle between the guiding tube and the base waveguide tube, an inclined angle of the reflecting surface of the reflecting component and the distance defined between the reflecting component and the guiding tube, a best impedance matching of the microwave can be set according to impedance change of liquid to be heated and heating efficacy of the microwave heating apparatus can be increased.

Fig. 1