

Title (en)

MICROWAVE REFLECTOMETER AND METHOD, AND MICROWAVE OVEN EQUIPPED THEREWITH

Title (de)

MIKROWELLEN-REFLEKTOMETRIEGERÄT UND -VERFAHREN SOWIE DAMIT AUSGERÜSTETER MIKROWELLENHERD

Title (fr)

DISPOSITIF ET PROCEDE DE REFLECTOMETRIE HYPERFREQUENCES, ET FOUR A MICRO-ONDES AINSI EQUIPE

Publication

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Application

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Abstract (en)

[origin: FR2766272A1] The invention concerns a microwave reflectometer for monitoring the evolution of a microwave oven impedance, comprising a power directive feed (10) including two antennae penetrating into the waveguide (100) and mutually connected by a stripline (13), and a multi-port coupler comprising several coupling lines. The multi-port coupler co-operates with the power directive feed (10) to deliver an information concerning the reflected wave phase coming from the chamber with respect to the incident wave emitted by the magnetron. The selected distance between these two antennae is less by a quarter than the magnetron emitting wavelength. The invention is useful in microwaves for domestic and industrial purposes.

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