

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

EP 0995125 A1 20000426 (FR)

Application

EP 98939673 A 19980713

Priority

- FR 9801529 W 19980713
- FR 9708928 A 19970715

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.

IPC 1-7

G01R 27/32; **H05B 6/80**; **G01R 27/04**

IPC 8 full level

G01R 27/04 (2006.01); **G01R 27/32** (2006.01); **G01R 29/00** (2006.01); **H05B 6/68** (2006.01); **H05B 6/70** (2006.01); **H05B 6/74** (2006.01); **H05B 6/80** (2006.01)

CPC (source: EP)

G01R 27/04 (2013.01); **G01R 27/32** (2013.01); **H05B 6/6447** (2013.01); **H05B 6/705** (2013.01); **H05B 6/707** (2013.01); **Y02B 40/00** (2013.01)

Citation (search report)

See references of WO 9904275A1

Designated contracting state (EPC)

DE ES GB IT NL SE

DOCDB simple family (publication)

FR 2766272 A1 19990122; **FR 2766272 B1 19991015**; CN 1135394 C 20040121; CN 1271418 A 20001025; EP 0995125 A1 20000426; JP 2001510898 A 20010807; KR 20010021942 A 20010315; WO 9904275 A1 19990128

DOCDB simple family (application)

FR 9708928 A 19970715; CN 98809143 A 19980713; EP 98939673 A 19980713; FR 9801529 W 19980713; JP 2000503433 A 19980713; KR 20007000507 A 20000115