

Title (en)  
IMPROVED MICROWAVE TREATMENT APPARATUS

Publication  
**EP 0364571 A4 19910821 (EN)**

Application  
**EP 89905041 A 19890419**

Priority  
AU PI788788 A 19880419

Abstract (en)  
[origin: WO8910678A1] A microwave heating system comprising a multi-sided support (1; 9 to 13) supporting a multiplicity of microwave applicators (2 to 4; 14 to 18), a tube (8; 24a; 40) defining a treatment zone (T) for confining the material to be treated, generally concave reflectors (5 to 7; 19 to 23) supported in each corner of said support (1; 9 to 13) for reflecting microwave energy passing through said zone (T). The tube (24a) is supported for rotation and includes vanes (24c) for agitating the material in the tube (24a). The tube is surrounded by an outer tube (24a) and the space between the tubes is filled with a material having dissimilar dielectric properties to cause matching of the microwave applicators with the material to be treated. In another aspect, means for heating a moving strip (S) comprising one or more microwave applicators (32) in an over or underlying relationship to said strip (S) such that the long axis of the microwave pattern (usually elliptical) produced by at least said one applicator is in a direction transverse to the direction of travel of said strip (S).

IPC 1-7  
**H05B 6/64; H05B 6/78; H05B 6/80**

IPC 8 full level  
**H05B 6/78** (2006.01)

CPC (source: EP)  
**H05B 6/78** (2013.01)

Citation (search report)

- [A] FR 1569046 A 19690530
- [A] EP 0229708 A2 19870722 - MICRO DENSHI CO LTD [JP]
- [A] WO 8707812 A1 19871217 - NEARCTIC RES CENTRE PTY [AU]
- See references of WO 8910678A1

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**WO 8910678 A1 19891102**; EP 0364571 A1 19900425; EP 0364571 A4 19910821

DOCDB simple family (application)  
**AU 8900171 W 19890419**; EP 89905041 A 19890419