

Title (en)

Portable microwave drying apparatus

Title (de)

Tragbares Gerät zur Trocknung mittels Mikrowellen

Title (fr)

Dispositif portable de séchage utilisant des micro-ondes

Publication

EP 0967841 B1 20060913 (EN)

Application

EP 99660105 A 19990608

Priority

FI 981463 A 19980625

Abstract (en)

[origin: EP0967841A2] The invention relates to a portable drying apparatus for drying structures by means of microwaves. The apparatus includes a housing (1) which is divided by a partition (13) into two compartments, one being provided with a magnetron (4) and the other functioning as an application chamber (2) for radiation. The magnetron (4), along with its drive circuit, operating switch (5) and wave tube (7), is picked up from a home microwave oven for exploiting the economics of scale. In order to homogenize radiation and to block back reflection, the application chamber (2) is provided with a metal reflector cone (9), supported by a dielectric plate (10) and having its apex pointing towards a transmission aperture (8) of the wave tube (7). <IMAGE>

IPC 8 full level

H05B 6/78 (2006.01); **E04B 1/70** (2006.01); **F26B 3/347** (2006.01); **F26B 9/00** (2006.01); **H05B 6/70** (2006.01); **H05B 6/72** (2006.01); **H05B 6/80** (2006.01)

CPC (source: EP)

E04B 1/7007 (2013.01); **F26B 3/347** (2013.01); **F26B 9/003** (2013.01); **H05B 6/6402** (2013.01); **H05B 6/76** (2013.01); **H05B 6/80** (2013.01); **H05B 2206/046** (2013.01)

Cited by

EP1196010A1; FR2812166A1; FR2832022A1; US6583395B2; WO0209477A1; WO2005079116A3

Designated contracting state (EPC)

AT CH DE GB LI SE

DOCDB simple family (publication)

EP 0967841 A2 19991229; **EP 0967841 A3 20000503**; **EP 0967841 B1 20060913**; AT E339870 T1 20061015; DE 69933170 D1 20061026; DE 69933170 T2 20070906; FI 103917 B1 19991015; FI 103917 B 19991015; FI 981463 A0 19980625; FI 981463 A 19991015

DOCDB simple family (application)

EP 99660105 A 19990608; AT 99660105 T 19990608; DE 69933170 T 19990608; FI 981463 A 19980625