

Title (en)

Portable microwave drying apparatus

Title (de)

Tragbares Gerät zur Tröcknung mittels Mikrowellen

Title (fr)

Dispositif portable de séchage utilisant des micro-ondes

Publication

EP 0967841 A3 20000503 (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 1-7

H05B 6/78; **H05B 6/72**

IPC 8 full level

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 6/78** (2006.01); **H05B 6/80** (2006.01)

CPC (source: EP)

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Citation (search report)

- [A] WO 8907694 A1 19890824 - WINTERTHUR BORGEN A S [DK]
- [A] CA 1082801 A 19800729 - CANADA MAJESTY IN RIGHT OF

Cited by

EP1196010A1; FR2832022A1; FR2812166A1; US6583395B2; WO2005079116A3; WO0209477A1

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DOCDB simple family (publication)

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