

Title (en)

Device for drying and/or sintering pressed articles made of composite materials

Title (de)

Vorrichtung zum Trocknen und/oder Sintern von Presskörpern aus Verbundwerkstoffen

Title (fr)

Dispositif pour le séchage et/ou le frittage d'un article compacté fabriqué avec une matière composite

Publication

**EP 1205724 A3 20030102 (DE)**

Application

**EP 01126388 A 20011107**

Priority

DE 20018925 U 20001107

Abstract (en)

[origin: EP1205724A2] The device for drying press bodies of compound materials containing hard materials and/or metal powder comprises a vacuum chamber with at least one microwave oven containing a hollow chamber resonator and a device for coupling a microwave field to it. A microwave source is provided for connection to the coupling device. The microwave oven (10,12) is arranged in the vacuum chamber (2) and contains a conveyor device (20) for moving the press pieces into the hollow chamber resonator (10). The conveyor device contains an endless belt (22), which with its upper section feeds through the face surface (11) of the hollow chamber resonator, running round deflector rollers (24), which are outside the resonator but inside the vacuum chamber.

IPC 1-7

**F27B 21/06**; F27B 9/04

IPC 8 full level

**F27B 9/04** (2006.01); **F27B 9/24** (2006.01); **F27B 9/36** (2006.01); **F27B 21/06** (2006.01); **F27D 7/06** (2006.01); **F27D 99/00** (2010.01)

CPC (source: EP)

**F27B 9/243** (2013.01); **F27B 9/36** (2013.01); **F27D 2007/066** (2013.01); **F27D 2099/0028** (2013.01)

Citation (search report)

- [A] DE 19640898 A1 19980423 - PUESCHNER GMBH & CO KG [DE]
- [A] WO 9209351 A1 19920611 - MLS GMBH [DE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 14 22 December 1999 (1999-12-22)

Cited by

DE102019106261A1; CN113196874A; DE102019106261B4; IT201900003603A1; WO2020125871A1

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DOCDB simple family (publication)

**EP 1205724 A2 20020515**; **EP 1205724 A3 20030102**; **EP 1205724 B1 20050727**; AT E300718 T1 20050815; DE 20018925 U1 20020314; DE 50106871 D1 20050901

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