

Title (en)

METHOD FOR PRODUCING PREFORMS FOR METAL-MATRIX COMPOSITES

Title (de)

VERFAHREN ZUR HERSTELLUNG VON PREFORMS FÜR METAL-MATRIX-COMPOSITES

Title (fr)

PROCÉDÉ DE FABRICATION DE PRÉFORMES POUR COMPOSITES MÉTAL-MATRICE

Publication

**EP 2225060 A2 20100908 (DE)**

Application

**EP 08863784 A 20081212**

Priority

- EP 2008067410 W 20081212
- DE 102007055908 A 20071221

Abstract (en)

[origin: WO2009080560A2] The preform technology is preferred for the production of composite materials. The preform must have a high strength and the necessary porosity for the infiltration with the liquid metal. The invention comprises the properties of the preform being improved by an appropriate selection of the size and type of the fibers and/or the particles of the secondary phase and/or the implementation of a special pore structure. In particular, the strength of the preform is increased and/or the temperature for solidifying the preform can be reduced by the use of an additional secondary phase in the nanoscale range.

IPC 8 full level

**B22F 1/052** (2022.01); **B22F 3/11** (2006.01); **C04B 41/51** (2006.01)

CPC (source: EP US)

**B22F 1/052** (2022.01 - EP US); **B22F 3/1121** (2013.01 - EP US); **B82Y 30/00** (2013.01 - EP); **C04B 35/111** (2013.01 - EP); **C04B 35/46** (2013.01 - EP); **C04B 35/6263** (2013.01 - EP); **C04B 35/6316** (2013.01 - EP); **C04B 38/0064** (2013.01 - EP); **C22C 1/1015** (2013.01 - EP); **C22C 47/06** (2013.01 - EP); **B22F 2998/00** (2013.01 - EP); **B22F 2998/10** (2013.01 - EP); **B22F 2999/00** (2013.01 - EP); **C04B 2235/3217** (2013.01 - EP); **C04B 2235/3232** (2013.01 - EP); **C04B 2235/3418** (2013.01 - EP); **C04B 2235/5436** (2013.01 - EP); **C04B 2235/5454** (2013.01 - EP); **C04B 2235/5472** (2013.01 - EP); **C04B 2235/604** (2013.01 - EP); **C04B 2235/608** (2013.01 - EP); **C04B 2235/77** (2013.01 - EP); **C04B 2235/786** (2013.01 - EP); **C04B 2235/96** (2013.01 - EP); **C04B 2235/9607** (2013.01 - EP)

Citation (search report)

See references of WO 2009080560A2

Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

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