

Title (en)
METHOD FOR PRODUCING METALLIC RETICULAR STRUCTURES

Title (de)
VERFAHREN ZUR HERSTELLUNG METALLISCHER GITTERNETZSTRUKTUREN

Title (fr)
PROCEDE POUR PRODUIRE DES STRUCTURES METALLIQUES QUADRILLEES

Publication
EP 1227908 B1 20031029 (DE)

Application
EP 00958218 A 20000804

Priority

- DE 0002597 W 20000804
- DE 19939155 A 19990820

Abstract (en)
[origin: US2002088598A1] A method of producing reticular structures, particularly metallic reticular structures, as well as a device suitable for the production thereof. The method and device enable continuous and/or automated production of such structures, and particularly, large-scale automated production of large-dimensioned reticular structures. A reticulated foam pre-structure is placed into a first container and infiltrated with a refractory material. After solidification, the mold formed by the refractory material is removed from the first container and the foam pre-structure stripped from the mold. The mold is then pre-heated and placed into a second container and infiltrated with a molten substance that forms the reticular structure when solidified. The filled mold may be covered with a solid jacket as a means of controlling the rate and progression of solidification of the molten substance to form a fine-grained, bubble-free structure.

IPC 1-7
B22D 19/00; **B22C 9/04**

IPC 8 full level
B01D 39/00 (2006.01); **B01D 39/20** (2006.01); **B22C 9/04** (2006.01); **B22D 19/00** (2006.01); **B22D 19/14** (2006.01); **B22D 25/02** (2006.01); **B22D 25/04** (2006.01); **H01M 4/80** (2006.01)

CPC (source: EP US)
B22D 19/14 (2013.01 - EP US); **B22D 25/02** (2013.01 - EP US)

Cited by
DE102014118177A1; DE102014118178A1; WO2010112393A1; WO2010112392A1; WO2011051106A1; WO2011144417A1; US8875395B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
US 2002088598 A1 20020711; **US 6857461 B2 20050222**; AT E252956 T1 20031115; AU 6982700 A 20010319; CA 2381843 A1 20010301; CA 2381843 C 20090127; DE 19939155 A1 20010222; DE 50004277 D1 20031204; EP 1227908 A1 20020807; EP 1227908 B1 20031029; ES 2209965 T3 20040701; JP 2003507192 A 20030225; WO 0114086 A1 20010301

DOCDB simple family (application)
US 7933102 A 20020220; AT 00958218 T 20000804; AU 6982700 A 20000804; CA 2381843 A 20000804; DE 0002597 W 20000804; DE 19939155 A 19990820; DE 50004277 T 20000804; EP 00958218 A 20000804; ES 00958218 T 20000804; JP 2001518212 A 20000804