

Title (en)

Fabrication of aluminium foams by the impregnation of polyurethane foam with a slurry comprising aluminium and salt

Title (de)

Herstellung von Aluminiumschaum durch die Imprägnierung von Polyurethanschaum mit einem Aluminium und Salz enthaltenden Schlicker

Title (fr)

Production d'aluminium mousse par l'impregnation de mousse de polyurethane avec boue comprenant aluminium et sel

Publication

EP 2045029 A1 20090408 (EN)

Application

EP 08386018 A 20080731

Previously filed application

20070100504 20070802 GR

Priority

GR 20070100504 A 20070802

Abstract (en)

Fabrication of 3D open cell metal foams with the method of impregnation of polymeric foams with slurries containing metal powders and one or more salts. The process includes drying at ambient temperature of the template foam being impregnated with the slurry, heat treatment to produce evaporation of the template foam followed by final sintering at the appropriate temperature and in an inert atmosphere in order to produce structures with improved properties.

IPC 8 full level

B22F 3/11 (2006.01); **C22C 1/04** (2006.01)

CPC (source: EP GR)

B22F 3/11 (2013.01 - GR); **B22F 3/1137** (2013.01 - EP); **C22C 1/04** (2013.01 - GR)

Citation (applicant)

- US 3111396 A 19631119 - BALL BURTON B
- US 4973385 A 19901127 - JEAN MING-GWO [TW], et al
- WO 9731738 A1 19970904 - ASTRO MET INC [US]

Citation (search report)

- [AD] WO 9731738 A1 19970904 - ASTRO MET INC [US]
- [A] US 3322535 A 19670530 - RAO MLARUR L B
- [A] WO 02066693 A1 20020829 - ISOTIS NV [NL], et al
- [AD] US 4973385 A 19901127 - JEAN MING-GWO [TW], et al
- [AD] US 3111396 A 19631119 - BALL BURTON B

Cited by

CN106475557A; WO2017123251A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

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