

Title (en)

PROCESS FOR PRODUCING METAL FOAMS HAVING UNIFORM CELL STRUCTURE

Title (de)

VERFAHREN ZUR HERSTELLUNG VON METALLSCHÄUMEN MIT EINHEITLICHER ZELLSTRUKTUR

Title (fr)

PROCEDE DE FABRICATION DE MOUSSES METALLIQUES PRESENTANT UNE STRUCTURE CELLULAIRE UNIFORME

Publication

EP 1929068 A4 20121003 (EN)

Application

EP 06790575 A 20060825

Priority

- CA 2006001394 W 20060825
- US 71494305 P 20050907

Abstract (en)

[origin: US2007051636A1] A method for producing porous metal plated polymeric foam having uniform pore properties. Polymeric foam buns are horizontally cut along a longitudinal surface thereby lifting off a foam sheet. The sheet is spooled and then reticulated to remove any remaining cell walls and to round off the internal pore struts to enlarge the openings between the adjacent cells. The reticulated foam sheet is unwound and then plated. Slabs may be attached end to end and loop slitted and then reticulated. The resulting plated uniform foam provides a superior substrate for battery plaques and other applications.

IPC 8 full level

B29C 44/56 (2006.01); **B22F 3/11** (2006.01); **C22C 1/08** (2006.01); **C23C 14/04** (2006.01); **C23C 14/20** (2006.01); **C23C 16/04** (2006.01); **C23C 16/44** (2006.01); **C23C 18/16** (2006.01); **C23C 18/20** (2006.01); **C23C 18/31** (2006.01); **C25D 1/08** (2006.01); **C25D 5/56** (2006.01); **H01M 4/66** (2006.01); **H01M 4/80** (2006.01)

CPC (source: EP KR US)

B22F 3/1137 (2013.01 - EP US); **B29C 44/5654** (2013.01 - EP US); **C22C 1/08** (2013.01 - EP US); **C23C 14/046** (2013.01 - EP US); **C23C 14/205** (2013.01 - EP US); **C23C 16/045** (2013.01 - EP US); **C23C 16/4418** (2013.01 - EP US); **C23C 18/1644** (2013.01 - EP US); **C23C 18/31** (2013.01 - EP US); **C23C 28/00** (2013.01 - KR); **C25D 1/08** (2013.01 - EP US); **C25D 5/56** (2013.01 - EP US); **H01M 4/667** (2013.01 - EP US); **H01M 4/808** (2013.01 - EP US); **B22F 2998/00** (2013.01 - EP US); **Y02E 60/10** (2013.01 - EP)

Citation (search report)

- [XY] US 5738907 A 19980414 - VACCARO ANTHONY J [US], et al
- [XY] JP H09153365 A 19970610 - SUMITOMO ELECTRIC INDUSTRIES, et al
- [X] JP S62243245 A 19871023 - SHIN KOBE ELECTRIC MACHINERY
- [I] US 6309742 B1 20011030 - CLUPPER THOMAS [US], et al
- [Y] GB 979261 A 19650101 - HEBERLEIN & CO AG
- [Y] US 4246057 A 19810120 - JANOWSKI KENNETH R, et al
- [Y] JP S6319235 A 19880127 - SANPUKU KOGYO KK
- [A] US 4957543 A 19900918 - BABJAK JURAJ [CA], et al
- See references of WO 2007028234A1

Designated contracting state (EPC)

DE GB PL RO SK

DOCDB simple family (publication)

US 2007051636 A1 20070308; CA 2619013 A1 20070315; CN 101287859 A 20081015; EP 1929068 A1 20080611; EP 1929068 A4 20121003; JP 2009509033 A 20090305; KR 20080030095 A 20080403; RU 2008113164 A 20091020; TW 200714446 A 20070416; WO 2007028234 A1 20070315

DOCDB simple family (application)

US 50629406 A 20060818; CA 2006001394 W 20060825; CA 2619013 A 20060825; CN 200680032576 A 20060825; EP 06790575 A 20060825; JP 2008529428 A 20060825; KR 20087003534 A 20080214; RU 2008113164 A 20060825; TW 95131852 A 20060829