

Title (en)

PRODUCTION OF POROUS COATING ON A PROSTHESIS.

Title (de)

HERSTELLUNG PORÖSER BESCHICHTUNGEN AUF EINE PROTHESE.

Title (fr)

PRODUCTION D'UN REVETEMENT POREUX SUR UNE PROTHESE.

Publication

EP 0083655 A4 19850228 (EN)

Application

EP 82902620 A 19820723

Priority

US 28716681 A 19810727

Abstract (en)

[origin: WO8300282A1] A method of producing a porous coating (26) on preselected areas of a prosthesis (25) and the resulting implant (10) having a unique porous coating (26). Preselected surface areas are covered by a blend of matching primary metallic particles and expendable particles. The particles are compressed (20) and heated (21) to assure that deformation and metallurgical bonding occurs both between them and at the surface boundaries of the implant element (10). Porosity is achieved by removal of the expandable material (24). The result is a coating (26) including discrete bonded particles separated by a network of interconnected voids presenting a homogeneous porous coating (26) about the substrate (10).

IPC 1-7

A61F 1/03

IPC 8 full level

A61F 2/28 (2006.01); **A61F 2/30** (2006.01); **A61L 26/00** (2006.01); **A61L 27/00** (2006.01); **A61L 27/04** (2006.01); **A61L 27/30** (2006.01); **A61L 27/56** (2006.01); **B22F 7/00** (2006.01); **A61F 2/00** (2006.01); **A61F 2/36** (2006.01)

CPC (source: EP)

A61F 2/30767 (2013.01); **A61L 27/04** (2013.01); **A61L 27/30** (2013.01); **A61L 27/56** (2013.01); **B22F 7/004** (2013.01); **A61F 2/3094** (2013.01); **A61F 2002/30242** (2013.01); **A61F 2002/3631** (2013.01); **A61F 2230/0071** (2013.01); **A61F 2310/00407** (2013.01)

Citation (search report)

[A] US 2688139 A 19540907 - JARDON FRITZ W

Designated contracting state (EPC)

AT CH DE FR GB LI

DOCDB simple family (publication)

WO 8300282 A1 19830203; CA 1199535 A 19860121; EP 0083655 A1 19830720; EP 0083655 A4 19850228; JP H0344776 B2 19910709; JP S58501160 A 19830721; ZA 825398 B 19830629

DOCDB simple family (application)

US 8201016 W 19820723; CA 408023 A 19820726; EP 82902620 A 19820723; JP 50258982 A 19820723; ZA 825398 A 19820727