

Title (en)  
SPINULOSE SURFACES

Title (de)  
SPINULOSE OBERFLÄCHEN

Title (fr)  
SURFACES DE SPINULOSE

Publication  
**EP 2257653 A4 20120404 (EN)**

Application  
**EP 08844879 A 20081031**

Priority  
• US 2008012348 W 20081031  
• US 93283107 A 20071031  
• US 15269808 A 20080516

Abstract (en)  
[origin: WO2009058351A2] Spinulose metal surfaces are produced by a modified nanoplasma cyclic deposition process. The unique spinulose surfaces are highly adherent toward polymer and bioactive molecules and cells, including osteoblast, fibroblast and endothelial cells. The nanostructured spinulose surfaces can be coated with a wide range of polymers to form polymer surface coatings that are particularly useful on implants, catheters, guidewires, stents and other medical devices intended for in vivo applications.

IPC 8 full level  
**C23C 14/14** (2006.01); **A61F 2/00** (2006.01); **A61L 27/30** (2006.01); **A61L 27/34** (2006.01); **A61L 27/50** (2006.01); **A61L 31/00** (2006.01); **B32B 15/04** (2006.01); **C08L 67/04** (2006.01); **C23C 14/22** (2006.01); **C23C 14/32** (2006.01); **C23C 14/54** (2006.01)

CPC (source: EP)  
**A61L 27/30** (2013.01); **A61L 27/34** (2013.01); **A61L 27/50** (2013.01); **C23C 14/14** (2013.01); **C23C 14/225** (2013.01); **C23C 14/325** (2013.01); **C23C 14/54** (2013.01); **A61L 2400/18** (2013.01)

Citation (search report)  
• [XA] WO 2007088792 A1 20070809 - TOKYO ELECTRON LTD [JP], et al & US 2009183984 A1 20090723 - SAKUMA TAKASHI [JP], et al  
• [A] YUKIMURA K ET AL: "Ar/O/sub 2/ gas pressure and arc current dependences of atomic components of zirconia prepared by intermittent zirconium arc PBII&D", THE 31ST IEEE INTERNATIONAL CONFERENCE ON PLASMA SCIENCE (ICOPS), 28 JUNE - 1 JULY 2004, BALTIMORE, MD [US] IEEE CONFERENCE RECORD, ABSTRACTS, 28 June 2004 (2004-06-28), IEEE [US], pages 236, XP055020119, ISSN: 0730-9244, ISBN: 0-7803-8334-6, DOI: 10.1109/PLASMA.2004.1339852  
• See references of WO 2009058351A2

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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**US 2008012348 W 20081031; EP 08844879 A 20081031**