

Title (en)  
CARRIER APPLIED COATING LAYERS

Title (de)  
TRÄGERAPPLIZIERTE ÜBERZUGSSCHICHTEN

Title (fr)  
COUCHES DE REVETEMENT APPLIQUEES PAR SUPPORT

Publication  
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Application  
**EP 04756014 A 20040623**

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Abstract (en)  
[origin: WO2005000575A1] The present invention provides a process for providing on the surface of a substrate an adherent phosphorous acid-based coating layer, the method comprising contacting said surface with a carrier conveying a coating composition comprising an acid selected from the group consisting of phosphoric acids, organo-phosphoric acids, phosphonic acids, and mixtures thereof, at a sufficient temperature and for a sufficient time to bond at least a portion of the acid in the composition to the oxide surface.

IPC 8 full level  
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Citation (search report)  
• [X] GAWALT E S ET AL: "Bonding organics to Ti alloys: Facilitating human osteoblast attachment and spreading on surgical implant materials", LANGMUIR, vol. 19, no. 1, 7 January 2003 (2003-01-07), AMERICAN CHEMICAL SOCIETY US, pages 200 - 204, XP002558865, Retrieved from the Internet <URL:http://pubs.acs.org/doi/pdf/10.1021/la0203436> [retrieved on 20091203]  
• [X] GAWALT E S ET AL: "Self-assembly and bonding of alkanephosphonic acids on the native oxide surface of titanium", LANGMUIR, vol. 17, no. 19, 18 September 2001 (2001-09-18), AMERICAN CHEMICAL SOCIETY US, pages 5736 - 5738, XP002558866, Retrieved from the Internet <URL:http://pubs.acs.org/doi/pdf/10.1021/la010649x> [retrieved on 20091203]  
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• [X] GAWALT E S ET AL: "Enhanced bonding of organometallics to titanium via a titanium(III) phosphate interface", LANGMUIR, vol. 17, no. 21, 16 October 2001 (2001-10-16), AMERICAN CHEMICAL SOCIETY, US, pages 6743 - 6745, XP002558868, Retrieved from the Internet <URL:http://pubs.acs.org/doi/pdf/10.1021/la010595r> [retrieved on 20091203] & DATABASE COMPENDEX [online] ENGINEERING INFORMATION, INC., NEW YORK, NY, US; GAWALT E S ET AL: "Bonding organics to Ti alloys: Facilitating human osteoblast attachment and spreading on surgical implant materials", Database accession no. E2003057347652 & DATABASE COMPENDEX [online] ENGINEERING INFORMATION, INC., NEW YORK, NY, US; GAWALT E S ET AL: "Self-assembly and bonding of alkanephosphonic acids on the native oxide surface of titanium", Database accession no. E2002487242125 & DATABASE COMPENDEX [online] ENGINEERING INFORMATION, INC., NEW YORK, NY, US; SCHWARTZ J ET AL: "Cell attachment and spreading on metal implant materials", Database accession no. E2003097376630 & DATABASE COMPENDEX [online] ENGINEERING INFORMATION, INC., NEW YORK, NY, US; GAWALT E S ET AL: "Enhanced bonding of organometallics to titanium via a titanium(III) phosphate interface", Database accession no. E2002487242060  
• See references of WO 2005000575A1

Citation (examination)  
WO 2004072120 A2 20040826 - UNIV PRINCETON [US], et al

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