

Title (en)
EROSION-RESISTANT COATINGS FOR ORGANIC MATRIX COMPOSITES

Title (de)
EROSIONSBESTÄNDIGE BESCHICHTUNGEN FÜR ORGANISCHE MATRIXKOMPOSITE

Title (fr)
REJETEMENTS RESISTANT A L'EROSION POUR COMPOSITES A MATRICE ORGANIQUE

Publication
EP 1244544 A4 20030129 (EN)

Application
EP 00992985 A 20001024

Priority
• US 0041502 W 20001024
• US 42627999 A 19991025

Abstract (en)
[origin: WO0146324A2] This invention is directed to a coated article having an erosion-resistant coating and a method of providing the erosion-resistant coating to the article. The coated article has an increased useful lifespan and will resist erosion even in high-temperature environments. The coated article includes an organic resin substrate, a high-temperature erosion-resistant coating, and a bonding layer to secure the coating to the substrate. The bond coating can comprise a material selected from zinc, aluminum, aluminum-silicon alloy, chromium, titanium, nickel, silicon, tin, antimony, copper, iron, stainless steel, silver, and mixtures thereof. The erosion-resistant coating can be provided as a substantially non-porous layer comprising a material selected from the group of carbides, fluorides, nitrides, oxides and mixtures thereof of materials such as nickel, cobalt, iron, chromium, tungsten, and molybdenum. The organic resin substrate is prepared to receive the erosion-resistant coating by grip-blasting the resin surface. The metallic bond coat is then applied to the resin surface, and an erosion-resistant coating is deposited on the metallic bond coating.

IPC 1-7
C23C 28/00; **C23C 4/04**; **C23C 4/10**; **B32B 15/08**; **B05D 3/12**

IPC 8 full level
C08J 7/043 (2020.01); **C08J 7/046** (2020.01); **C23C 4/02** (2006.01); **C23C 28/00** (2006.01)

CPC (source: EP US)
C08J 7/0423 (2020.01 - EP); **C08J 7/043** (2020.01 - EP US); **C08J 7/046** (2020.01 - EP US); **C23C 4/02** (2013.01 - EP US); **C23C 28/00** (2013.01 - EP)

Citation (search report)
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• See references of WO 0146324A2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 0146324 A2 20010628; **WO 0146324 A3 20011115**; **WO 0146324 B1 20020103**; AU 4901201 A 20010703; EP 1244544 A2 20021002; EP 1244544 A4 20030129

DOCDB simple family (application)
US 0041502 W 20001024; AU 4901201 A 20001024; EP 00992985 A 20001024