

Title (en)
THERMO-MECHANICAL FATIGUE RESISTANT ALUMINUM ABRADABLE COATING

Title (de)
THERMOMECHANISCHE, ERMÜDUNGSBESTÄNDIGE UND ABREIBBARE ALUMINIUMBESCHICHTUNG

Title (fr)
REVÊTEMENT ABRADABLE EN ALUMINIUM RÉSISTANT À LA FATIGUE THERMOMÉCANIQUE

Publication
EP 2964808 A4 20161026 (EN)

Application
EP 13877283 A 20131230

Priority
• US 201361773344 P 20130306
• US 2013078183 W 20131230

Abstract (en)
[origin: WO2014137464A1] An aluminum coating to be deposited on a substrate having a first coefficient of thermal expansion has an aluminum matrix, and particles of a material having a low coefficient of thermal expansion incorporated into the matrix. The particles bond sufficiently well to the aluminum matrix to carry a portion of the mechanical load.

IPC 8 full level
C23C 4/06 (2006.01); **B22F 9/08** (2006.01); **C23C 4/18** (2006.01)

CPC (source: EP US)
B22F 9/082 (2013.01 - EP US); **C22C 1/0416** (2013.01 - EP US); **C22C 1/1042** (2013.01 - EP US); **C22C 21/00** (2013.01 - EP US); **C22C 32/0047** (2013.01 - US); **C22C 32/0073** (2013.01 - US); **C23C 4/06** (2013.01 - EP US); **C23C 4/18** (2013.01 - EP US)

Citation (search report)
• [X] WO 2007117279 A2 20071018 - UNIV CALIFORNIA [US], et al
• [XY] EP 0258510 A1 19880309 - MARTIN MARIETTA CORP [US]
• [XYI] EP 1801248 A2 20070627 - MOMENTIVE PERFORMANCE MAT INC [US]
• See references of WO 2014137464A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2014137464 A1 20140912; EP 2964808 A1 20160113; EP 2964808 A4 20161026; EP 2964808 B1 20190501; US 2016017474 A1 20160121

DOCDB simple family (application)
US 2013078183 W 20131230; EP 13877283 A 20131230; US 201314772105 A 20131230