

Title (en)
ANODIZED METAL MATRIX COMPOSITE

Title (de)
ANODISIERTER METALLMATRIX-VERBUNDWERKSTOFF

Title (fr)
COMPOSITE DE MATRICE MÉTALLIQUE ANODISÉ

Publication
EP 3283673 A1 20180221 (EN)

Application
EP 16718151 A 20160413

Priority
• US 201562146581 P 20150413
• US 2016027306 W 20160413

Abstract (en)
[origin: US2016298254A1] Metal matrix composite articles are made with a substrate and an anodized layer. The anodized layer includes matrix phase and a dispersed phase of reinforcement particles in the matrix, the matrix being an oxide of aluminum or an aluminum alloy. The ratio of the thickness of the anodized layer to the average particle size (D50) of the reinforcement particles is at least 1.3.

IPC 8 full level
C25D 11/04 (2006.01)

CPC (source: EP US)
C25D 11/04 (2013.01 - EP US); **C25D 11/08** (2013.01 - EP); **C25D 11/10** (2013.01 - EP)

Citation (search report)
See references of WO 2016168311A1

Cited by
WO2022046643A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
US 2016298254 A1 20161013; EP 3283673 A1 20180221; EP 3283673 B1 20191002; WO 2016168311 A1 20161020

DOCDB simple family (application)
US 201615097921 A 20160413; EP 16718151 A 20160413; US 2016027306 W 20160413