

Title (en)

PARTICULATE ALUMINIUM MATRIX NANO-COMPOSITES AND A PROCESS FOR PRODUCING THE SAME

Title (de)

PARTIKELFÖRMIGE ALUMINIUMMATRIXNANOVERBUNDSTOFFE UND VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)

NANOCOMPOSITES À MATRICE EN ALUMINIUM PARTICULAIRE ET PROCÉDÉ DE PRODUCTION CORRESPONDANT

Publication

EP 2526214 A2 20121128 (EN)

Application

EP 11734461 A 20110120

Priority

- IN 168MU2010 A 20100121
- IN 2011000043 W 20110120

Abstract (en)

[origin: WO2011089626A2] The present invention provides a process for reinforced aluminum matrix composite. The aluminum matrix composite is reinforced with compound selected from the group consisting of Titanium carbide, Titanium boride, Vanadium and Zirconium compounds. The process is carried out pneumatically using pressurized carrier gas. The pressurized carrier gas also provides efficient stirring during the process which leads to uniform dispersion of the particulate in the aluminum matrix.

IPC 8 full level

C22C 1/10 (2006.01); **C22C 32/00** (2006.01)

CPC (source: EP KR US)

B22D 25/00 (2013.01 - US); **C22C 1/10** (2013.01 - KR); **C22C 1/1036** (2013.01 - EP US); **C22C 1/1068** (2013.01 - EP US); **C22C 21/00** (2013.01 - US); **C22C 21/08** (2013.01 - US); **C22C 32/00** (2013.01 - KR); **C22C 32/0036** (2013.01 - EP US); **C22C 32/0052** (2013.01 - EP US); **C22C 32/0073** (2013.01 - EP US)

Citation (search report)

See references of WO 2011089626A2

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 2011089626 A2 20110728; **WO 2011089626 A3 20111006**; CN 102791893 A 20121121; CN 102791893 B 20150520; EP 2526214 A2 20121128; JP 2013518178 A 20130520; KR 20120123685 A 20121109; US 2013189151 A1 20130725

DOCDB simple family (application)

IN 2011000043 W 20110120; CN 201180006700 A 20110120; EP 11734461 A 20110120; JP 2012549471 A 20110120; KR 20127021849 A 20110120; US 201213554896 A 20120720