

Title (en)

Composite structure having a non-planar interface and method of making same

Title (de)

Verbundstruktur mit unebener Grenzfläche, sowie Verfahren zur dessen Herstellung

Title (fr)

Structure composite avec surface de séparation non-planair, et procédé pour sa fabrication

Publication

EP 1716948 A3 20061220 (EN)

Application

EP 06251484 A 20060321

Priority

US 90804005 A 20050426

Abstract (en)

[origin: EP1716948A2] A composite structure includes a first portion comprising a first metallic material, a monolayer of particles extending into and bonded with the first portion, and a second portion comprising a second material, the second portion bonded with the monolayer of particles and extending into interstices between the particles. A method for fabricating a composite structure includes bonding a monolayer of particles to a first portion comprising a first metallic material, such that the monolayer of particles extends into the first portion and bonding a second portion comprising a second material to the monolayer of particles, such that the second portion extends into interstices between the particles.

IPC 8 full level

B22F 7/04 (2006.01); **B22F 7/08** (2006.01); **E21B 10/573** (2006.01)

CPC (source: EP US)

B22F 7/02 (2013.01 - EP US); **B22F 7/04** (2013.01 - EP US); **C22C 1/1036** (2013.01 - EP US); **E21B 10/5735** (2013.01 - EP US); **B22F 2998/10** (2013.01 - EP US)

Citation (search report)

- [X] US 5875862 A 19990302 - JUREWICZ STEPHEN R [US], et al
- [X] US 6029760 A 20000229 - HALL DAVID R [US]
- [X] EP 0601840 A1 19940615 - CAMCO DRILLING GROUP LTD [GB]
- [X] US 4154900 A 19790515 - HIRAOA Kiyotaka [JP], et al
- [A] US 5441817 A 19950815 - RAI GHANSHYAM [US]
- [A] US 4629373 A 19861216 - HALL DAVID R [US]
- [A] US 6361873 B1 20020326 - YONG ZHOU [US], et al
- [A] US 5988302 A 19991123 - SRESHTA HAROLD A [US], et al
- [A] US 4277106 A 19810707 - SAHLEY LLOYD W
- [A] US 2004245024 A1 20041209 - KEMBAIYAN KUMAR T [US]
- [A] US 5543235 A 19960806 - MIRCHANDANI PRAKASH K [US], et al
- [A] US 4780274 A 19881025 - BARR JOHN D [GB]

Cited by

WO2009120344A3

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1716948 A2 20061102; **EP 1716948 A3 20061220**; CA 2544654 A1 20061026; US 2006237236 A1 20061026

DOCDB simple family (application)

EP 06251484 A 20060321; CA 2544654 A 20060424; US 90804005 A 20050426