

Title (en)

High temperature composite material, process for its manufacture and its use.

Title (de)

Hochtemperatur-Verbund-Werkstoff, Verfahren zu seiner Herstellung sowie dessen Verwendung.

Title (fr)

Matériau composite à haute température, son procédé de fabrication et son utilisation.

Publication

EP 0401611 A1 19901212 (DE)

Application

EP 90109913 A 19900524

Priority

DE 3918380 A 19890606

Abstract (en)

The present invention relates to a novel corrosion-resistant and wear-resistant high-temperature composite material based on an alloy of the type MCrAlY as a matrix metal with platinum and/or rhodium as alloy elements in amounts of 5 to 15 % by weight, a process for the production of this high-temperature composite material and its use.

Abstract (de)

Die vorliegende Erfindung betrifft einen neuen korrosions- und verschleißbeständigen Hochtemperatur-Verbund-Werkstoff auf Basis einer Legierung des Typs MCrAlY als Matrixmetall mit Platin und/oder Rhodium als Legierungselemente in Mengen von 5 bis 15 Gew.-%, ein Verfahren zur Herstellung dieses Hochtemperatur-Verbund-Werkstoffes sowie dessen Verwendung.

IPC 1-7

C22C 32/00; C23C 30/00

IPC 8 full level

B22F 1/00 (2006.01); **B22F 9/02** (2006.01); **C22C 1/10** (2006.01); **C22C 19/00** (2006.01); **C22C 29/06** (2006.01); **C22C 29/08** (2006.01); **C22C 29/10** (2006.01); **C22C 32/00** (2006.01); **C23C 4/06** (2016.01); **C23C 30/00** (2006.01)

CPC (source: EP KR US)

C22C 1/059 (2023.01 - US); **C22C 29/00** (2013.01 - KR); **C22C 29/067** (2013.01 - EP US); **C22C 32/0052** (2013.01 - EP US); **C23C 4/06** (2013.01 - EP US); **C23C 30/00** (2013.01 - EP US); **Y10T 428/12486** (2015.01 - EP US); **Y10T 428/12576** (2015.01 - EP US)

Citation (search report)

- [AD] GB 1500780 A 19780208 - UNITED TECHNOLOGIES CORP
- [A] GB 2006274 A 19790502 - UNITED TECHNOLOGIES CORP
- [AD] US 4275124 A 19810623 - MCCOMAS CHARLES C, et al
- [A] WO 8201897 A1 19820610 - CASTOLIN SA [CH], et al

Cited by

US5897947A; EP0652299A1; EP0961017A3; US6548161B1

Designated contracting state (EPC)

DE FR GB IT NL SE

DOCDB simple family (publication)

EP 0401611 A1 19901212; EP 0401611 B1 19931124; CA 2018254 A1 19901206; DE 3918380 A1 19901220; DE 59003581 D1 19940105; JP H0344456 A 19910226; KR 910001079 A 19910130; US 5141821 A 19920825

DOCDB simple family (application)

EP 90109913 A 19900524; CA 2018254 A 19900605; DE 3918380 A 19890606; DE 59003581 T 19900524; JP 14555890 A 19900605; KR 900008178 A 19900604; US 52958390 A 19900529