

Title (en)
HARDMETAL MATERIALS FOR HIGH-TEMPERATURE APPLICATIONS

Title (de)
HARTMETALLMATERIALIEN FÜR HOCHTEMPERATURANWENDUNGEN

Title (fr)
MATERIAUX A BASE DE METAUX DURS POUR APPLICATIONS A HAUTE TEMPERATURE

Publication
EP 1922427 A4 20090318 (EN)

Application
EP 06813610 A 20060821

Priority
• US 2006032654 W 20060821
• US 71001605 P 20050819

Abstract (en)
[origin: WO2007022514A2] Hardmetal compositions each including hard particles having a first material and a binder matrix having a second, different material comprising rhenium or a Ni-based superalloy. Tungsten may also be used a binder matrix material. A two-step sintering process may be used to fabricate such hardmetals at relatively low sintering temperatures in the solid-state phase to produce substantially fully-densified hardmetals. A hardmetal coating or structure may be formed on a surface by using a thermal spray method.

IPC 8 full level
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CPC (source: EP KR)
C22C 29/005 (2013.01 - EP); **C22C 29/04** (2013.01 - KR); **C22C 29/14** (2013.01 - KR); **C22C 29/16** (2013.01 - KR); **B22F 2998/00** (2013.01 - EP); **B22F 2998/10** (2013.01 - EP)

Citation (search report)

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Designated contracting state (EPC)
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