

Title (en)

HARD METAL OR CERMET CUTTING MATERIAL AND THE USE THEREOF

Title (de)

HARTMETALL- ODER CERMET-SCHNEIDWERKSTOFF SOWIE DESSEN VERWENDUNG

Title (fr)

MATERIAU TRANCHANT A BASE DE METAUX DURS OU DE CERMETS ET UTILISATION DUDIT MATERIAU

Publication

**EP 1488020 A1 20041222 (DE)**

Application

**EP 03722231 A 20030321**

Priority

- DE 0300946 W 20030321
- DE 10213963 A 20020328

Abstract (en)

[origin: US2005115742A1] The invention relates to a hard metal or cermet cutting material for cutting chromium-alloy steel parts. Said cutting material comprises a hard phase containing carbides, nitrides and/or carbonitrides and a binder phase based on iron, cobalt and nickel. The aim of the invention is to prevent an agglomeration of the cutting material during cutting operations. For this purpose, the binder phase contains 10% by weight to 75% by weight of Co, 10% by weight to 75% by weight of Ni, 5% by weight to 30% by weight of Cr, >=20% by weight to 60% by weight of Fe, the total of Co, Ni, Cr and Fe not exceeding 100% by weight.

IPC 1-7

**C22C 29/00**

IPC 8 full level

**B23B 27/14** (2006.01); **C22C 29/00** (2006.01); **C22C 29/02** (2006.01)

CPC (source: EP US)

**C22C 29/005** (2013.01 - EP US); **B22F 2005/001** (2013.01 - EP US)

Cited by

DE102007047312A1; EP2527480A1; WO2012163804A1; US9821372B2; US11207730B2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**WO 03083149 A1 20031009**; AT E335093 T1 20060815; DE 10213963 A1 20031009; DE 50304470 D1 20060914; EP 1488020 A1 20041222; EP 1488020 B1 20060802; ES 2270016 T3 20070401; JP 2005521790 A 20050721; US 2005115742 A1 20050602

DOCDB simple family (application)

**DE 0300946 W 20030321**; AT 03722231 T 20030321; DE 10213963 A 20020328; DE 50304470 T 20030321; EP 03722231 A 20030321; ES 03722231 T 20030321; JP 2003580582 A 20030321; US 50930404 A 20040924