

Title (en)

SINTERED WEAR-RESISTANT BORIDE MATERIAL, SINTERABLE POWDER MIXTURE FOR PRODUCING SAID MATERIAL, METHOD FOR PRODUCING THE MATERIAL AND USE THEREOF

Title (de)

GESINTERTER VERSCHLEISSBESTÄNDIGER BORIDWERKSTOFF, SINTERFÄHIGE PULVERMISCHUNG ZUR HERSTELLUNG DES WERKSTOFFS, VERFAHREN ZUR HERSTELLUNG DES WERKSTOFFS UND DESSEN VERWENDUNG

Title (fr)

MATÉRIAU À BASE DE BORURE FRITTÉ RÉSISTANT A L'USURE, MÉLANGE POUDREUX FRITTABLE DESTINÉ À LA FABRICATION DE CE MATÉRIAU, PROCÉDÉ DE FABRICATION DU MATERIAU ET SON UTILISATION

Publication

**EP 1999087 A1 20081210 (DE)**

Application

**EP 07723199 A 20070312**

Priority

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- DE 102006013746 A 20060324

Abstract (en)

[origin: DE102006013746A1] Sintered wear-resistant material comprises 80-98.8 wt.% finely ground IVb-VIb transition metal diboride or mixed crystal as the main phase, 0.2-5 wt.% oxygen-containing grain boundary phase as second phase and 1-15 wt.% particulate boron carbide and/or silicon carbide as third phase. An independent claim is also included for a method for the production of a sintered material.

IPC 8 full level

**C04B 35/58** (2006.01)

CPC (source: EP US)

**C04B 35/58064** (2013.01 - EP US); **C04B 35/58071** (2013.01 - EP US); **C04B 35/58078** (2013.01 - EP US); **C04B 35/62655** (2013.01 - EP US); **C04B 35/645** (2013.01 - EP US); **C04B 35/6455** (2013.01 - EP US); **C04B 2235/3218** (2013.01 - EP US); **C04B 2235/3813** (2013.01 - EP US); **C04B 2235/3821** (2013.01 - EP US); **C04B 2235/3826** (2013.01 - EP US); **C04B 2235/3847** (2013.01 - EP US); **C04B 2235/3895** (2013.01 - EP US); **C04B 2235/402** (2013.01 - EP US); **C04B 2235/421** (2013.01 - EP US); **C04B 2235/428** (2013.01 - EP US); **C04B 2235/5436** (2013.01 - EP US); **C04B 2235/5445** (2013.01 - EP US); **C04B 2235/604** (2013.01 - EP US); **C04B 2235/6562** (2013.01 - EP US); **C04B 2235/6567** (2013.01 - EP US); **C04B 2235/6581** (2013.01 - EP US); **C04B 2235/661** (2013.01 - EP US); **C04B 2235/666** (2013.01 - EP US); **C04B 2235/77** (2013.01 - EP US); **C04B 2235/786** (2013.01 - EP US); **C04B 2235/80** (2013.01 - EP US); **C04B 2235/85** (2013.01 - EP US); **C04B 2235/96** (2013.01 - EP US); **C04B 2235/9692** (2013.01 - EP US)

Citation (search report)

See references of WO 2007110149A1

Designated contracting state (EPC)

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**DE 102006013746 A 20060324**; CN 200780010604 A 20070312; EP 07723199 A 20070312; EP 2007002160 W 20070312; US 22547307 A 20070312