

Title (en)
SINTERED REFRACTORY HARD METALS.

Title (de)
GESINTERTE FEUERFESTE HARTE METALLE.

Title (fr)
METAUX REFRACTAIRES DURS FRITES.

Publication
EP 0085093 A4 19840427 (EN)

Application
EP 82902610 A 19820722

Priority
• US 28712581 A 19810727
• US 28712781 A 19810727

Abstract (en)
[origin: WO8300325A1] TiB₂-carbon composites are produced by mixing the raw materials comprised of carbon, TiB₂, pitch, and other reactants, forming a shaped article, processing in a nitrogen atmosphere up to 2100$\circ\text{C}$, and in a noble gas above 2100$\circ\text{C}$, by pressureless sintering of TiB₂ or other refractory hard metal powder, or by molding or extrusion of plastic mixes of binder and particulate carbon and refractory hard metal.

IPC 1-7
C04B 33/32; **C04B 35/64**

IPC 8 full level
C04B 33/32 (2006.01); **C04B 35/52** (2006.01); **C04B 35/58** (2006.01); **C04B 35/64** (2006.01); **C25C 3/08** (2006.01)

CPC (source: EP)
C04B 35/52 (2013.01); **C04B 35/532** (2013.01); **C04B 35/58071** (2013.01); **C04B 35/64** (2013.01); **C04B 35/645** (2013.01); **C25C 3/08** (2013.01)

Citation (search report)
• [X] GB 712585 A 19540728 - CARBORUNDUM CO
• [X] DE 1608187 A1 19701112 - KNAPSACK AG
• [Y] US 4111765 A 19780905 - DE NORA VITTORIO, et al
• [YD] US 3400061 A 19680903 - LEWIS ROBERT A, et al
• [YP] US 4308114 A 19811229 - DAS SUBODH K, et al
• [YP] WO 8201018 A1 19820401 - GREAT LAKES CARBON CORP [US]

Designated contracting state (EPC)
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WO 8300325 A1 19830203; BR 8207805 A 19830719; EP 0085093 A1 19830810; EP 0085093 A4 19840427; JP S58501172 A 19830721

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US 8201004 W 19820722; BR 8207805 A 19820722; EP 82902610 A 19820722; JP 50260582 A 19820722