

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] TiB<sub>2</sub>-carbon composites are produced by mixing the raw materials comprised of carbon, TiB<sub>2</sub>, pitch, and other reactants, forming a shaped article, processing in a nitrogen atmosphere up to 2100<math>\circ\text{C}</math>, and in a noble gas above 2100<math>\circ\text{C}</math>, by pressureless sintering of TiB<sub>2</sub> 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)  
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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)  
AT BE CH DE FR GB LI SE

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DOCDB simple family (application)  
**US 8201004 W 19820722**; BR 8207805 A 19820722; EP 82902610 A 19820722; JP 50260582 A 19820722