

Title (en)
NOVEL COMPOSITE CERAMICS WITH IMPROVED TOUGHNESS.

Title (de)
KOMPOSITKERAMIK MIT VERBESSERTER HÄRTE.

Title (fr)
CERAMIQUE COMPOSITE NOUVELLE AVEC DURETE ACCRUE.

Publication
EP 0190346 A4 19870122 (EN)

Application
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Priority
US 63881384 A 19840808

Abstract (en)
[origin: WO8601196A1] A high density refractory body composite ceramic comprising a densified refractory body, possessing about 10 percent greater toughness than exhibited by other composite ceramics of similar composition and geometry, of a refractory material selected from the group consisting of oxides, carbides, nitrides, silicides, borides, sulfides and mixtures thereof, and a binder material capable of plastic deformation in a sufficient amount to at least partially fill the interstices between the particles of the refractory material and a method for producing said high density refractory body composite ceramics.

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C04B 35/56; **C04B 35/58**

IPC 8 full level
C04B 35/00 (2006.01); **C22C 1/05** (2006.01); **C22C 29/00** (2006.01); **C22C 29/02** (2006.01); **C22C 29/06** (2006.01); **C22C 29/08** (2006.01); **C22C 29/12** (2006.01); **C22C 29/14** (2006.01); **C22C 29/16** (2006.01); **C22C 29/18** (2006.01)

CPC (source: EP)
C22C 1/051 (2013.01); **C22C 29/00** (2013.01)

Citation (search report)
• [X] E. KLAR: "Metals Handbook", 9th edition, vol. 7, Powder Metallurgy, June 1984, pages 441,387-389, American Society for Metals, Ohio, US;
• See references of WO 8601196A1

Designated contracting state (EPC)
BE DE FR GB IT NL

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