

Title (en)
RESISTANT CERAMIC MATERIAL AND METHOD FOR MAKING SAME

Title (de)
WIDERSTANDSFÄHIGES KERAMIKMATERIAL UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
CERAMIQUE RESISTANTE ET PROCEDE DE FABRICATION

Publication
EP 1922354 A2 20080521 (EN)

Application
EP 06780403 A 20060815

Priority
• IL 2006000943 W 20060815
• US 70794705 P 20050815

Abstract (en)
[origin: WO2007020634A2] The present invention relates to a method of preparing a resistant ceramic material by consolidation of SiC-AIN solution powder including synthesis of a SiC-AIN solid solution, followed by processing steps including crushing (if necessary), milling, sinter-aid addition, binder addition, granulation (if cold-pressed), cold forming and consolidation. This invention also provides a novel resistant ceramic material comprising primarily a homogeneous SiC-AIN solid solution or a homogeneous SiC-AIN solid solution that underwent phase separation, used for military and civil armor, and products that can withstand dynamic loading and are also wear resistant.

IPC 8 full level
C08G 79/00 (2006.01)

CPC (source: EP)
C04B 35/591 (2013.01); **C04B 35/593** (2013.01); **C04B 35/5935** (2013.01); **C04B 35/62615** (2013.01); **C04B 35/6262** (2013.01); **C04B 35/62695** (2013.01); **C04B 35/63416** (2013.01); **C04B 35/638** (2013.01); **F41H 5/0414** (2013.01); **F41H 5/0428** (2013.01); **C04B 2235/3217** (2013.01); **C04B 2235/3224** (2013.01); **C04B 2235/3225** (2013.01); **C04B 2235/3418** (2013.01); **C04B 2235/3826** (2013.01); **C04B 2235/3839** (2013.01); **C04B 2235/3843** (2013.01); **C04B 2235/3852** (2013.01); **C04B 2235/3856** (2013.01); **C04B 2235/3865** (2013.01); **C04B 2235/3873** (2013.01); **C04B 2235/3886** (2013.01); **C04B 2235/3895** (2013.01); **C04B 2235/402** (2013.01); **C04B 2235/404** (2013.01); **C04B 2235/422** (2013.01); **C04B 2235/428** (2013.01); **C04B 2235/5436** (2013.01); **C04B 2235/5445** (2013.01); **C04B 2235/604** (2013.01); **C04B 2235/6562** (2013.01); **C04B 2235/6565** (2013.01); **C04B 2235/6567** (2013.01); **C04B 2235/6587** (2013.01); **C04B 2235/661** (2013.01); **C04B 2235/77** (2013.01); **C04B 2235/80** (2013.01); **C04B 2235/94** (2013.01); **C04B 2235/95** (2013.01); **C04B 2235/96** (2013.01)

Citation (search report)
See references of WO 2007020634A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2007020634 A2 20070222; **WO 2007020634 A3 20070531**; AU 2006281014 A1 20070222; EP 1922354 A2 20080521

DOCDB simple family (application)
IL 2006000943 W 20060815; AU 2006281014 A 20060815; EP 06780403 A 20060815