

Title (en)

METHOD OF MAKING AND USING A TITANIUM DIBORIDE COMPRISING BODY

Publication

EP 0148821 B1 19880713 (EN)

Application

EP 83902467 A 19830527

Priority

US 8300843 W 19830527

Abstract (en)

[origin: WO8404713A1] Methods of making and of using a high density high strength titanium diboride comprising material. The method of making comprises (a) compacting a mixture of titanium diboride, 5-20% by weight of a metal group binder, and up to 1% oxygen and up to 2% graphite, the mixture having a maximum particle size of 5 microns, and (b) sintering the compact to substantially full density. The TiB₂ may be replaced by up to 10% TiC. The method of use is as a cutting tool at relatively high speeds against aluminum based materials.

IPC 1-7

B22F 3/00; C22C 29/00

IPC 8 full level

C22C 29/14 (2006.01)

CPC (source: EP)

C22C 29/14 (2013.01)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 8404713 A1 19841206; DE 3377337 D1 19880818; EP 0148821 A1 19850724; EP 0148821 A4 19851001; EP 0148821 B1 19880713

DOCDB simple family (application)

US 8300843 W 19830527; DE 3377337 T 19830527; EP 83902467 A 19830527