

Title (en)
Corrosion resistant polycrystalline abrasive compacts

Title (de)
Korrosionsbeständige polykristalline Schleifpresskörper

Title (fr)
Korrosionsbeständige polykristalline Schleifpresskörpern

Publication
EP 1033414 A3 20020918 (EN)

Application
EP 00301474 A 20000224

Priority
US 25895499 A 19990301

Abstract (en)
[origin: EP1033414A2] A supported abrasive particle compact is composed of a cobalt-cemented carbide support integrally bonded to an abrasive particle layer of self-bonded diamond particles or CBN particles. The cobalt content in said supported compact is provided in form of a nickel-cobalt alloy wherein the amount of nickel is such that the cobalt is present in the face center cubic (FCC) or e phase. The inventive cutters can be made by infiltration of Ni metal into cemented WC substrate and/or the polycrystalline layer bonded thereto. Bonding includes high pressure/high temperature (HP/HT) formation of the supported polycrystalline compact and the brazing of the polycrystalline compact to the support. <IMAGE>

IPC 1-7
C22C 29/06; **C22C 29/08**; **C22C 29/10**; **B22F 7/06**

IPC 8 full level
B22F 7/06 (2006.01); **B24D 3/00** (2006.01); **B24D 3/34** (2006.01)

CPC (source: EP KR)
B22F 7/06 (2013.01 - EP KR); **B24D 3/34** (2013.01 - EP KR); **B24D 3/342** (2013.01 - EP KR); **B22F 2005/001** (2013.01 - EP KR)

Citation (search report)

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Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 1033414 A2 20000906; **EP 1033414 A3 20020918**; JP 2000246645 A 20000912; KR 20000062660 A 20001025; ZA 200000781 B 20000913

DOCDB simple family (application)
EP 00301474 A 20000224; JP 2000050774 A 20000228; KR 20000009771 A 20000228; ZA 200000781 A 20000217