

Title (en)

Corrosion resistant polycrystalline abrasive compacts

Title (de)

Korrosionsbeständige polykristalline Schleifpresskörper

Title (fr)

Korrosionsbeständige polykristalline Schleifpresskörpern

Publication

**EP 1033414 A2 20000906 (EN)**

Application

**EP 00301474 A 20000224**

Priority

US 25895499 A 19990301

Abstract (en)

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**; **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)

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Cited by

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