

Title (en)

Steel-hard carbide macrostructured tools, compositions and methods of forming.

Title (de)

Grobstrukturierte Werkzeuge, bzw. Werkstoffe, aus Stahl-Hartkarbiden und Herstellungsverfahren.

Title (fr)

Outils et compositions ayant une structure macroscopique acier-carbure dur et leur procédé de fabrication.

Publication

EP 0046209 A1 19820224 (EN)

Application

EP 81105783 A 19810722

Priority

- US 17880580 A 19800818
- US 25545381 A 19810420

Abstract (en)

Composition of matter composed of 33 to 80 weight per cent of a carbide material having a particle size greater than 400 mesh, and 23 to 70 weight per cent of a metallic matrix material, the carbide material which may be a cemented composite (30), being embedded in and bonded to said metallic matrix material (25) by powder metallurgical techniques of compaction and high temperature and high pressure diffusion bonding; and tools having a cemented carbide wear or cutting element (30), these tools also being formed by powder metallurgy techniques.

IPC 1-7

B22F 7/06; **C22C 1/05**; **C22C 29/00**; **B23B 27/14**

IPC 8 full level

C22C 29/10 (2006.01); **B22F 7/06** (2006.01); **C22C 1/05** (2006.01); **C22C 29/06** (2006.01)

CPC (source: EP KR US)

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Citation (search report)

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