

Title (en)

Application of a porous copper-based material as a preform for a machining process.

Title (de)

Verwendung eines Poren enthaltenden Kupferwerkstoffes als Halbzeug, das einer Zerspanungsbehandlung unterworfen wird.

Title (fr)

Application de pièces poreuses à base de cuivre comme un produit semi-fini pour un traitement d'usinage.

Publication

EP 0545145 A1 19930609 (DE)

Application

EP 92119677 A 19921119

Priority

DE 4139063 A 19911128

Abstract (en)

Application of a porous copper-based material as a preform in the form of rods, tubes, sections, wires, sheets or strips, which is subjected to a machining process. In this process, the voids act as chip breakers. <IMAGE>

Abstract (de)

Verwendung eines Poren enthaltenden Kupferwerkstoffes als Halbzeug in Form von Stangen, Rohren, Profilen, Drähten, Blechen oder Bändern, das einer Zerspanungsbehandlung unterworfen wird. Die Poren wirken dabei als Spanbrecher. <IMAGE>

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B22F 3/00; **C22C 1/04**; **C22C 9/06**; **C23C 4/18**

IPC 8 full level

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Citation (search report)

- [Y] US 2881511 A 19590414 - BOEGEHOLD ALFRED L
- [A] EP 0457478 A1 19911121 - AMERICAN TELEPHONE & TELEGRAPH [US]
- [X] US 4604259 A 19860805 - WHITMAN CHARLES I [US]
- [YD] US 3826301 A 19740730 - BROOKS R
- [Y] EP 0454229 A1 19911030 - SHELL INT RESEARCH [NL]
- [A] EP 0456591 A1 19911113 - TREFIMETAUX [FR]
- [X] Derwent Publications Ltd., London, GB; AN 77-39283Y & SU-A-511 362 (PERM POLY) 3. September 1976
- [Y] 'METALS HANDBOOK' 1984 , AMERICAN SOCIETY FOR METALS , OHIO 9th Edition, Band 7; "Powder Metallurgy"
- [Y] 'METALS HANDBOOK' 1984 , AMERICAN SOCIETY FOR METALS , OHIO 9th Edition, Band 7 "Powder Metallurgy"
- [X] PATENT ABSTRACTS OF JAPAN vol. 016, no. 077 (M-1214)25. Februar 1992 & JP-A-32 64 187 (TAKARASAWAA KATSUYUKI) 25. November 1991

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