

Title (en)

GRINDING TOOL WITH A METAL-SYNTHETIC RESIN BINDER AND METHOD OF PRODUCING THE SAME

Title (de)

SCHLEIFWERKZEUG MIT EINEM METALL-KUNSTHARZ-BINDEMittel UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

OUTIL DE RECTIFICATION COMPORTANT UN LIANT METAL-RESINE SYNTHETIQUE ET SON PROCEDE DE PRODUCTION

Publication

EP 0820364 B1 20021218 (DE)

Application

EP 97901222 A 19970207

Priority

- AT 25396 A 19960214
- IB 9700099 W 19970207

Abstract (en)

[origin: WO9729886A1] The invention concerns a grinding tool for machining in particular brittle-hard materials. The bond in the grinder members of the tool is brought about by two components, one component consisting of synthetic resin, such as for example high-temperature thermoplastics or pressure sintered polymer, and a second component consisting of sintered metal with a low melting point. The processing temperature of the two components when they are jointly pressure sintered is the same. The essence of the invention lies in designing the two different binders such that they each have their own cohesive network and their mutual spatial interlacement in the grinding member forms an interpenetrating network. The invention further concerns a method of producing grinding members for grinder tools. The invention combines the advantage of greater binding forces of the metal bond with the advantage of higher elasticity of the synthetic resin bond in a grinding tool.

IPC 1-7

B24D 3/06; **B24D 3/28**

IPC 8 full level

B24D 3/06 (2006.01); **B24D 3/28** (2006.01)

CPC (source: EP US)

B24D 3/06 (2013.01 - EP US); **B24D 3/28** (2013.01 - EP US)

Cited by

DE102010020601A1; DE102010020601B4; US8715381B2

Designated contracting state (EPC)

BE CH DE DK ES FR GB IT LI NL SE

DOCDB simple family (publication)

WO 9729886 A1 19970821; AT 403671 B 19980427; AT A25396 A 19970915; BR 9702077 A 19980526; DE 59708987 D1 20030130; EP 0820364 A1 19980128; EP 0820364 B1 20021218; US 6063148 A 20000516

DOCDB simple family (application)

IB 9700099 W 19970207; AT 25396 A 19960214; BR 9702077 A 19970207; DE 59708987 T 19970207; EP 97901222 A 19970207; US 97308597 A 19971006