

Title (en)

Economical abrading tool and method of manufacture

Title (de)

Preiswertes Schleifwerkzeug und Verfahren zur Herstellung

Title (fr)

Dispositif d'abrasion économique et procédé de fabrication

Publication

**EP 1262282 A1 20021204 (FR)**

Application

**EP 02291272 A 20020523**

Priority

FR 0107087 A 20010530

Abstract (en)

The abrasive material consists of a self-hardening backing layer (1) of variable viscosity, and abrasive grains. The abrasive material consists of a self-hardening backing layer (1) of variable viscosity, and abrasive grains. Each grain has an abrasive core (20) coated with a metal or metallic alloy (21) which has a strong susceptibility to magnetic attraction. The grains collect in zones (Z1) where relatively strong grains are concentrated, separated by zones (Z0) of concentration of relatively weak grains. The material is made in a mould with a sheet of rubber in its base, in which magnets or magnetic particles are embedded. The abrasive grains, e.g. of natural or synthetic diamond in a metal coating, are then scattered over the base and a self-setting material such as a polymerizable resin is poured over them, and can be covered by a weight to promote penetration of the grains.

IPC 1-7

**B24D 3/28**; **B24D 18/00**; **B24D 11/00**

IPC 8 full level

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CPC (source: EP)

**B24D 3/28** (2013.01); **B24D 11/001** (2013.01); **B24D 18/009** (2013.01)

Citation (search report)

- [Y] FR 2299122 A1 19760827 - EDENVALE ENG WORKS [ZA]
- [Y] US 5250084 A 19931005 - LANSELL PETER V [AU], et al
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