

Title (en)
ABRASIVE PRODUCT AND METHOD FOR THE PRODUCTION THEREOF

Title (de)
SCHLEIFMITTEL UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)
PRODUIT ABRASIF ET SON PROCEDE DE PRODUCTION

Publication
EP 1827762 B1 20130911 (DE)

Application
EP 05809970 A 20051125

Priority
• EP 2005012637 W 20051125
• DE 102004058710 A 20041206

Abstract (en)
[origin: WO2006061112A1] The invention relates to an abrasive product wherein abrasive grains are embedded in a matrix which comprises a cell-free, duroplastic binding agent for the abrasive grains, and wherein a contact surface which is provided with abrasive grains and which is used to abrade a workpiece is embodied. According to the invention, the matrix is elastically flexible such that the abrasive grains which cover the contact surfaces are pressed into the matrix during the abrasive step. The abrasive grains are distributed in the matrix in such a manner that an additional contact surface covering the abrasive grains is released when the matrix is used in the diagonal direction for the original contact surface provided with abrasive grains. The abrasive grains are distributed in the matrix in such a manner that they are diagonal and also parallel on the respective contact surface of the abrasive counter to the reverse force of the matrix. Said matrix is joined in a flexible manner to the base, and is bound directly via the binding agent contained in the matrix.

IPC 8 full level
B24D 11/00 (2006.01); **B24D 3/00** (2006.01)

CPC (source: EP KR US)
B24D 3/00 (2013.01 - KR); **B24D 3/001** (2013.01 - EP US); **B24D 11/00** (2013.01 - KR); **B24D 11/001** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2006061112 A1 20060615; BR PI0518815 A2 20081209; CN 101048259 A 20071003; CN 101048259 B 20130313;
EP 1827762 A1 20070905; EP 1827762 B1 20130911; JP 2008522837 A 20080703; JP 4996475 B2 20120808; KR 101287501 B1 20130719;
KR 20070085816 A 20070827; US 2009277098 A1 20091112

DOCDB simple family (application)
EP 2005012637 W 20051125; BR PI0518815 A 20051125; CN 200580036608 A 20051125; EP 05809970 A 20051125;
JP 2007543749 A 20051125; KR 20077012751 A 20051125; US 72064205 A 20051125