

Title (en)  
ROTARY ABRASIVE MATERIAL

Title (de)  
ROTIERENDES SCHLEIFMATERIAL

Title (fr)  
MATERIAU ABRASIF ROTATIF

Publication  
**EP 1586418 A4 20070117 (EN)**

Application  
**EP 03769931 A 20031029**

Priority  
• JP 0313815 W 20031029  
• JP 2002336605 A 20021120

Abstract (en)  
[origin: US2005085174A1] A first member has a base plate 11 and an abrasive sheet installation portion 12 where an abrasive sheet is fixed. The base plate or the abrasive sheet installation portion is provided with an air-introducing portion 15 as a space penetrating from the back face side to the front face side of the base plate or the abrasive sheet installation portion, and an airflow passes from the back face side to the front face side as a rotary abrasive material rotates. When the first member is used as a single unit, overheating is prevented and swarf can be removed when the rotation of a projection portion as the abrasive sheet installation portion 12 generates an airflow flowing through the air-introducing portion 15. Further, when a second member is provided such that its axial position is adjustable relative to the first member, an abrasive sheet of the second member can project and retract against the first member, so that, depending on processing required, grinding work can be performed by easily switching abrasive sheets to be used.

IPC 8 full level  
**B24D 13/18** (2006.01); **B24D 13/16** (2006.01); **B24D 13/20** (2006.01)

CPC (source: EP US)  
**B24D 13/16** (2013.01 - EP US); **B24D 13/18** (2013.01 - EP US); **B24D 13/20** (2013.01 - EP US)

Citation (search report)  
• [X] US 6312325 B1 20011106 - VAN OSENBRUGGEN ANTHONY ALFRED [NZ]  
• [X] EP 0904896 A2 19990331 - YANASE KABUSHIKI KAISHA [JP]  
• [X] DE 9101911 U1 19910627  
• See references of WO 2004045805A1

Cited by  
CN109641363A; US11052564B2; US11969911B2

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

DOCDB simple family (publication)  
**US 2005085174 A1 20050421**; EP 1586418 A1 20051019; EP 1586418 A4 20070117; JP 4261484 B2 20090430;  
JP WO2004045805 A1 20060316; WO 2004045805 A1 20040603

DOCDB simple family (application)  
**US 50452204 A 20040816**; EP 03769931 A 20031029; JP 0313815 W 20031029; JP 2004553146 A 20031029