

Title (en)

Grinding device and use of same grinding device for rectifying cylindrical items, apparatus and method for rectifying cylindrical items

Title (de)

Schleifgerät, dessen Anwendung zum Schleifen von zylindrischen Gegenständen , Vorrichtung und Verfahren zum Schleifen von zylindrischen Gegenständen

Title (fr)

Dispositif de meulage, son utilisation pour meuler des objets cylindriques, machine et procédé pour meuler des objets cylindriques

Publication

EP 1681137 B1 20070425 (EN)

Application

EP 04425960 A 20041230

Priority

EP 04425960 A 20041230

Abstract (en)

[origin: EP1681137A1] The present invention relates to a grinding device (1) comprising a plurality of cylindrical abrasive bodies (4, 5, 8) each having a cylindrical support core (4b, 5b, 8b) and an outer layer (4c, 5c, 8c) for material removal, which is made of abrasive material. The grinding device further comprises a plurality of intermediate elements (6) alternated with the cylindrical abrasive bodies (4, 5, 8) to axially space the circumferential abrasive surfaces (4a, 5a, 8a) of said bodies apart. The intermediate elements (6) have a smaller diameter than the maximum diameter of the cylindrical support core (4b, 5b, 8b) of the cylindrical abrasive bodies (4, 5, 8) so as to define a series of circumferential cooling grooves (6a) enabling a cooling fluid to act on the overheated parts to a greater extent.

IPC 8 full level

B24D 5/06 (2006.01); **B24B 5/04** (2006.01); **B24B 5/18** (2006.01); **B24B 55/02** (2006.01); **B24D 5/10** (2006.01)

CPC (source: EP)

B24B 5/04 (2013.01); **B24B 5/18** (2013.01); **B24B 55/02** (2013.01); **B24D 5/066** (2013.01); **B24D 5/10** (2013.01)

Cited by

CN107199495A; CN109551384A; US2012225615A1; ITPD20090280A1; WO2018097956A1; WO2011036104A1; JP2014050908A

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1681137 A1 20060719; EP 1681137 B1 20070425; EP 1681137 B2 20101110; AT E360503 T1 20070515; DE 602004006149 D1 20070606; DE 602004006149 T2 20080124; DE 602004006149 T3 20110609; ES 2286587 T3 20071201; ES 2286587 T5 20110404; SI 1681137 T1 20071031; SI 1681137 T2 20110331

DOCDB simple family (application)

EP 04425960 A 20041230; AT 04425960 T 20041230; DE 602004006149 T 20041230; ES 04425960 T 20041230; SI 200430354 T 20041230