

Title (en)

Method and apparatus for inclined centerless plunge-cut grinding

Title (de)

Verfahren zum spitzenlosen Schräg-Einsteichschleifen und Schleifmaschine

Title (fr)

Procédé et dispositif de rectification "sans centre" en plongée oblique

Publication

EP 1080833 A3 20030917 (DE)

Application

EP 00117794 A 20000818

Priority

DE 19940685 A 19990827

Abstract (en)

[origin: EP1080833A2] The method involves rotating a work piece (34) about an axis inclined by a given angle at a conical grinding wheel (16), to engage at least part of its surface. The grinding wheel and the work piece are advanced through a given overmeasure (A) in at least two steps. In a first step, they are advanced in a radial direction (74/1) to grind a cylindrical section (50,52) and in the second step they are advanced in an axial direction to grind a conical shoulder section (52). An Independent claim is included for a grinding machine for implementing the method.

IPC 1-7

B24B 5/01; **B24B 5/18**; **B24B 5/22**; **B24B 51/00**

IPC 8 full level

B24B 5/24 (2006.01); **B24B 5/26** (2006.01)

CPC (source: EP US)

B24B 5/24 (2013.01 - EP US)

Citation (search report)

- [X] US 4580368 A 19860408 - SMITH RODERICK L [US]
- [X] US 4083151 A 19780411 - JESSUP WILBUR F, et al
- [A] US 4062150 A 19771213 - MASUDA MASAMI, et al
- [A] GB 2067937 A 19810805 - TI MATRIX LTD

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

DE 19940685 A1 20010301; EP 1080833 A2 20010307; EP 1080833 A3 20030917; JP 2001105287 A 20010417; US 6312318 B1 20011106

DOCDB simple family (application)

DE 19940685 A 19990827; EP 00117794 A 20000818; JP 2000256121 A 20000825; US 64820600 A 20000825