

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)

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**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