

Title (en)

CONDITIONING OF A SUPERABRASIVE GRINDING TOOL

Title (de)

KONDITIONIERUNG EINES SUPERABRASIVEN SCHLEIFWERKZEUGS

Title (fr)

CONDITIONNEMENT D'OUTIL DE MEULAGE SUPERABRASIF

Publication

EP 4263132 A1 20231025 (DE)

Application

EP 21839003 A 20211207

Priority

- CH 15892020 A 20201215
- EP 2021084598 W 20211207

Abstract (en)

[origin: WO2022128630A1] In a method for machining workpieces in a tooth-grinding machine having a grinding tool (320) which has ceramically bonded abrasive particles consisting of a superabrasive material, the grinding tool is first dressed. Then, the dressed grinding tool is conditioned such that a desired wear state of the grinding tool is produced. Then, pre-toothed workpieces are machined using the dressed and conditioned grinding tool. The conditioning prevents an undesired grinding-in behaviour of the grinding tool in which thermal damage to the edge zone of the workpiece can occur. Conditioning is carried out with conditioning kinematics which differ from machining kinematics and can correspond to dressing kinematics. A conditioning tool (416; 425) having a basic shape which differs from the basic shape of the workpieces is used for conditioning.

IPC 8 full level

B24B 53/047 (2006.01); **B24B 53/06** (2006.01)

CPC (source: CH EP KR US)

B24B 53/04 (2013.01 - CH); **B24B 53/047** (2013.01 - EP KR US); **B24B 53/06** (2013.01 - CH); **B24B 53/062** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2022128630A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

CH 718158 A1 20220615; CN 116615307 A 20230818; EP 4263132 A1 20231025; JP 2023552716 A 20231219; KR 20230117369 A 20230808; MX 2023007020 A 20230627; US 2023415305 A1 20231228; WO 2022128630 A1 20220623

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CH 15892020 A 20201215; CN 202180083986 A 20211207; EP 2021084598 W 20211207; EP 21839003 A 20211207; JP 2023530822 A 20211207; KR 20237020940 A 20211207; MX 2023007020 A 20211207; US 202118035872 A 20211207