

Title (en)

METHOD AND DEVICE FOR CYLINDRICAL GRINDING

Title (de)

VERFAHREN UND VORRICHTUNG ZUM RUNDSCHLEIFEN

Title (fr)

PROCÉDÉ ET DISPOSITIF DE RECTIFICATION CYLINDRIQUE

Publication

**EP 4100205 A1 20221214 (DE)**

Application

**EP 21749084 A 20210708**

Priority

- DE 102020120617 A 20200805
- DE 2021100596 W 20210708

Abstract (en)

[origin: WO2022028643A1] The invention relates to a method for cylindrical grinding of cylindrical workpieces on a grinding machine, in which the axes of rotation of a grinding disc and of the workpiece are aligned in parallel to one another and the grinding disc is moved relative to the workpiece in the longitudinal-axial direction of the workpiece during the grinding process. According to the invention, the first grinding disc is followed by a second grinding disc at a continuously constant distance, wherein the distance is determined by the width of the first grinding disc and the remaining grinding parameters, such as the rotational speeds of the first grinding disc and of the workpiece and the feed rate in the longitudinal-axial direction, such that the second grinding disc grinds the helical error lines generated by the first grinding disc during the grind process. A control device adjusts the distance between the first and second grinding discs.

IPC 8 full level

**B24B 5/04** (2006.01); **B24B 5/22** (2006.01); **B24B 27/00** (2006.01); **B24B 51/00** (2006.01)

CPC (source: EP US)

**B24B 5/04** (2013.01 - EP); **B24B 5/22** (2013.01 - EP US); **B24B 27/0076** (2013.01 - EP US); **B24B 51/00** (2013.01 - EP US)

Citation (search report)

See references of WO 2022028643A1

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)

**DE 102020120617 A1 20220210**; EP 4100205 A1 20221214; US 2023191551 A1 20230622; WO 2022028643 A1 20220210

DOCDB simple family (application)

**DE 102020120617 A 20200805**; DE 2021100596 W 20210708; EP 21749084 A 20210708; US 202117926177 A 20210708