

Title (en)

GRINDING ROBOT FOR GRINDING ELECTRICALLY CONDUCTIVE WORKPIECES, AND METHOD FOR OPERATING SAME

Title (de)

SCHLEIFROBOTER ZUM SCHLEIFEN ELEKTRISCH LEITFÄHIGER WERKSTÜCKE UND VERFAHREN ZUM BETRIEB EINES SOLCHEN

Title (fr)

ROBOT DE MEULAGE POUR MEULER DES PIÈCES ÉLECTRIQUEMENT CONDUCTRICES ET PROCÉDÉ POUR SON FONCTIONNEMENT

Publication

**EP 3571010 B1 20200701 (DE)**

Application

**EP 17822173 A 20171204**

Priority

- DE 102017101175 A 20170123
- EP 2017081302 W 20171204

Abstract (en)

[origin: WO2018133984A1] The invention relates to a grinding robot for grinding an electrically conductive workpiece (6), comprising a grinding wheel (5), a unit for actuating the grinding wheel (5), and a controller, wherein the grinding wheel (5) has an undulating tool receptacle (3), which defines an axis of rotation about which the grinding wheel can rotate during grinding, and a head (1) which is rotationally symmetrical with respect to the axis of rotation, contains abrasive material and has a grinding face which is in contact with the workpiece during grinding, wherein the grinding wheel comprises a measurement and transmission unit (2) and at least one conductor strand pair with two conductor strands (10, 11) that are electrically insulated from one another, wherein the conductor strands (10, 11) are embedded in the rotationally symmetrical head (1) and extend from the grinding face of the head (1) into the interior of the head (1) and are electrically connected to the measurement and transmission unit (2) there.

IPC 8 full level

**B24B 27/00** (2006.01); **B24B 49/10** (2006.01); **B24D 3/34** (2006.01)

CPC (source: EP US)

**B24B 1/002** (2013.01 - US); **B24B 27/0038** (2013.01 - EP); **B24B 41/002** (2013.01 - US); **B24B 41/04** (2013.01 - US); **B24B 49/10** (2013.01 - EP US); **B24B 49/183** (2013.01 - US); **B24D 3/346** (2013.01 - EP); **B24D 5/00** (2013.01 - US); **B24B 19/14** (2013.01 - EP); **B24B 49/183** (2013.01 - EP); **B24D 5/00** (2013.01 - EP)

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

DOCDB simple family (publication)

**WO 2018133984 A1 20180726**; BR 112019010965 A2 20191001; CN 110177648 A 20190827; CN 110177648 B 20210528; EP 3571010 A1 20191127; EP 3571010 B1 20200701; US 11772233 B2 20231003; US 2019344400 A1 20191114

DOCDB simple family (application)

**EP 2017081302 W 20171204**; BR 112019010965 A 20171204; CN 201780083471 A 20171204; EP 17822173 A 20171204; US 201916519992 A 20190723