

Title (en)

ROLL POLISHING ROTATING GRINDSTONE, AND ROLL POLISHING DEVICE AND METHOD

Title (de)

ROTIERENDE WALZENPOLIERSCHEIBE, WALZENPOLIERVORRICHTUNG UND -VERFAHREN

Title (fr)

MEULE ROTATIVE DE POLISSAGE DE ROULEAU, DISPOSITIF ET PROCÉDÉ DE POLISSAGE DE ROULEAU

Publication

**EP 3488969 A4 20200408 (EN)**

Application

**EP 17833956 A 20170629**

Priority

- JP 2016145686 A 20160725
- JP 2017023858 W 20170629

Abstract (en)

[origin: EP3488969A1] Provided are a roll polishing rotary grinding stone and a roll polishing device and method which are configured to stably perform roll polishing without making the surface roughness of a surface to be processed non-uniform by preventing polishing debris to be generated during polishing from being accumulated in a recess at a center of a polishing surface of the roll polishing rotary grinding stone body. The roll polishing rotary grinding stone includes: a rotary grinding stone body having a rotary shaft mounted on a back end face and a polishing surface formed on a front end face; and a recess formed at a center of the front end face of the rotary grinding stone body, the roll polishing rotary grinding stone being configured to perform vertical polishing with respect to a surface of a roll by bringing the polishing surface into contact with the surface of the roll, in which the recess is formed into a tapered recess in which an inner peripheral surface of the recess is increased in diameter from the back end face of the rotary grinding stone body toward the front end face of the rotary grinding stone body.

IPC 8 full level

**B24D 7/00** (2006.01); **B24B 5/04** (2006.01); **B24D 7/18** (2006.01)

CPC (source: EP US)

**B24B 5/04** (2013.01 - US); **B24B 5/045** (2013.01 - EP US); **B24B 27/0076** (2013.01 - EP); **B24D 7/00** (2013.01 - US); **B24D 7/02** (2013.01 - EP); **B24D 7/10** (2013.01 - EP); **B24D 7/18** (2013.01 - US)

Citation (search report)

- [YD] JP 2000127005 A 20000509 - THINK LABS KK
- [Y] JP 2011025382 A 20110210 - SANKO SEITO KK
- [Y] US 2840960 A 19580701 - BOOTH SHELDON M
- [Y] CH 242897 A 19460615 - NAXOS UNION SCHLEIFMITTEL [DE]
- [A] US 7326378 B2 20080205 - YASUOKA KAI [JP], et al
- See references of WO 2018020947A1

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)

**EP 3488969 A1 20190529; EP 3488969 A4 20200408**; CN 109475999 A 20190315; JP 6761037 B2 20200923; JP WO2018020947 A1 20190523; TW 201806694 A 20180301; TW I719227 B 20210221; US 2019270171 A1 20190905; WO 2018020947 A1 20180201

DOCDB simple family (application)

**EP 17833956 A 20170629**; CN 201780044886 A 20170629; JP 2017023858 W 20170629; JP 2018529459 A 20170629; TW 106122901 A 20170707; US 201716320252 A 20170629