

Title (en)
METHOD FOR PRODUCING A GRINDING TOOL

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES SCHLEIFWERKZEUGS

Title (fr)
PROCÉDÉ DE PRODUCTION D'UN OUTIL DE RECTIFICATION

Publication
EP 3397429 B1 20230719 (DE)

Application
EP 17705119 A 20170214

Priority
EP 2017053281 W 20170214

Abstract (en)
[origin: WO2018149483A1] In a method for producing a grinding tool, a tool base body (4) is provided that forms a three-dimensional adhesive surface (24) by application of a binder (23). The tool base body (4) is positioned such that the adhesive surface (24) is arranged in an electrostatic field (E) between a first electrode (5) and a second electrode (6). Abrasive grains (8, 9) are introduced into the electrostatic field (E), which abrasive grains move, as a result of the electrostatic field (E), to the adhesive surface (24) and adhere there. The grinding tool produced in this way has a three-dimensional abrasive grain layer (25). The production of the grinding tool is simple, flexible and economical. The grinding tool has an abrasive grain layer (25) of any shape and can be used in a wide range of applications with a high cutting performance and a long service life.

IPC 8 full level
B24D 18/00 (2006.01); **B24D 3/28** (2006.01); **B24D 3/34** (2006.01); **B24D 7/00** (2006.01)

CPC (source: CN EP KR RU US)
B24D 3/28 (2013.01 - RU); **B24D 3/34** (2013.01 - EP RU US); **B24D 3/342** (2013.01 - KR); **B24D 3/346** (2013.01 - US); **B24D 5/00** (2013.01 - EP); **B24D 5/08** (2013.01 - KR); **B24D 7/00** (2013.01 - EP RU); **B24D 7/02** (2013.01 - KR US); **B24D 18/00** (2013.01 - RU US); **B24D 18/0054** (2013.01 - CN); **B24D 18/0072** (2013.01 - CN EP KR US); **B24D 2201/00** (2013.01 - KR); **B24D 2203/00** (2013.01 - EP); **B24D 2205/00** (2013.01 - CN)

Citation (examination)

- EP 2578180 A1 20130410 - BRASSELER GMBH & CO KG GEB [DE]
- US 2898279 A 19590804 - ARCHIBALD METCALFE KENNETH, et al
- WO 2015050781 A1 20150409 - 3M INNOVATIVE PROPERTIES CO [US]
- GB 559356 A 19440215 - NORTON GRINDING WHEEL CO LTD

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 2018149483 A1 20180823; AU 2017398968 A1 20190815; AU 2017398968 B2 20231207; BR 112019015694 A2 20200707; BR 112019015694 B1 20230228; CA 3053273 A1 20180823; CA 3053273 C 20230926; CN 110290897 A 20190927; CN 114986403 A 20220902; EP 3397429 A1 20181107; EP 3397429 B1 20230719; ES 2959836 T3 20240228; JP 2020507488 A 20200312; JP 7269888 B2 20230509; KR 102596678 B1 20231031; KR 20190119044 A 20191021; MX 2019009632 A 20191219; PL 3397429 T3 20240205; RU 2731496 C1 20200903; RU 2731496 C9 20201118; US 11518002 B2 20221206; US 2020061777 A1 20200227

DOCDB simple family (application)
EP 2017053281 W 20170214; AU 2017398968 A 20170214; BR 112019015694 A 20170214; CA 3053273 A 20170214; CN 201780086282 A 20170214; CN 202210661473 A 20170214; EP 17705119 A 20170214; ES 17705119 T 20170214; JP 2019564577 A 20170214; KR 20197023642 A 20170214; MX 2019009632 A 20170214; PL 17705119 T 20170214; RU 2019123294 A 20170214; US 201716485972 A 20170214