

Title (en)

COATED ABRASIVE TOOL, METHOD FOR PRODUCING SAME, AND ABRASIVE DENTAL PRODUCT

Title (de)

BESCHICHTETES ABRASIVES WERKZEUG, VERFAHREN ZUM HERSTELLEN DESSELBEN UND ABRASIVES DENTALPRODUKT

Title (fr)

OUTIL ABRASIF REVÊTU, PROCÉDÉ DE FABRICATION DUDIT OUTIL ET PRODUIT DENTAIRE ABRASIF

Publication

**EP 3956490 A1 20220223 (DE)**

Application

**EP 20720423 A 20200417**

Priority

- DE 102019205745 A 20190418
- EP 2020060901 W 20200417

Abstract (en)

[origin: WO2020212595A1] The invention relates to a coated abrasive tool (10) comprising a carrier (12) which has a carrier material and comprising an abrasive surface coating (14) on a surface region (12-A) of the carrier (12). The abrasive surface coating (14) has abrasive functional particles (16) and a thermoplastic binder (18) for an adhesive connection between at least some of the abrasive functional particles (16) and the carrier material. At least some of the abrasive functional particles (16) on the surface region (12-A) of the carrier (12) are partly integrated into the carrier material and are connected to the carrier material, and at least some of the abrasive functional particles (16) on the surface region (12-A) of the carrier (12) are additionally partly integrated into the thermoplastic binder (18), said thermoplastic binder (18) being connected to the abrasive functional particles (16) and the carrier material.

IPC 8 full level

**C23C 4/06** (2016.01); **A61C 3/025** (2006.01); **A61C 3/06** (2006.01); **A61C 15/04** (2006.01); **C23C 4/04** (2006.01); **C23C 4/134** (2016.01); **C23C 24/08** (2006.01)

CPC (source: EP US)

**A46B 9/005** (2013.01 - EP US); **A46B 9/04** (2013.01 - US); **A61C 3/025** (2013.01 - EP US); **A61C 3/06** (2013.01 - EP US); **B24D 3/007** (2013.01 - US); **B24D 3/20** (2013.01 - US); **C23C 4/04** (2013.01 - EP US); **C23C 4/134** (2016.01 - EP US); **C23C 24/08** (2013.01 - EP); **A46B 2200/3093** (2013.01 - EP US); **A61C 17/222** (2013.01 - EP); **B82Y 40/00** (2013.01 - US)

Citation (search report)

See references of WO 2020212595A1

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

DOCDB simple family (publication)

**WO 2020212595 A1 20201022**; CN 114144539 A 20220304; DE 102019205745 A1 20201022; EP 3956490 A1 20220223; US 2022033950 A1 20220203

DOCDB simple family (application)

**EP 2020060901 W 20200417**; CN 202080044223 A 20200417; DE 102019205745 A 20190418; EP 20720423 A 20200417; US 202117502892 A 20211015