

Title (en)
COATED ABRASIVE DISC AND METHODS OF MAKING AND USING THE SAME

Title (de)
BESCHICHTETE SCHLEIFSCHEIBE UND VERFAHREN ZUR HERSTELLUNG UND VERWENDUNG DAVON

Title (fr)
DISQUE ABRASIF REVÊTU ET SES PROCÉDÉS DE FABRICATION ET D'UTILISATION

Publication
EP 3713711 A1 20200930 (EN)

Application
EP 18880621 A 20181116

Priority
• US 201762589186 P 20171121
• IB 2018059063 W 20181116

Abstract (en)
[origin: WO2019102329A1] A coated abrasive disc includes a disc backing and an abrasive layer disposed thereon. The abrasive layer comprises abrasive elements secured to a major surface of the disc backing by at least one binder material. The abrasive elements are disposed at contiguous intersections of horizontal and vertical lines of a rectangular grid pattern. At least 70 percent of the intersections have one of the abrasive elements disposed thereat. Each of the abrasive elements has two triangular abrasive platelets. Each one of the triangular abrasive platelets has respective top and bottom surfaces connected to each other, and separated by, three sidewalls. On a respective basis, one sidewall of at least 90 percent of the triangular abrasive platelets is disposed facing and proximate to the disc backing. The abrasive elements are arranged such that the triangular abrasive platelets in orthogonally adjacent abrasive elements have a Z- axis rotational orientation within 10 degrees of perpendicular to each other. Methods of making and using the coated abrasive disc are also disclosed.

IPC 8 full level
B24D 3/00 (2006.01); **B24D 3/28** (2006.01); **B24D 11/02** (2006.01); **C09K 3/14** (2006.01)

CPC (source: EP US)
B24D 7/063 (2013.01 - EP US); **B24D 11/001** (2013.01 - EP US); **B24D 11/04** (2013.01 - US); **B24D 18/0072** (2013.01 - US); **C09K 3/1409** (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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2019102329 A1 20190531; CN 111372726 A 20200703; CN 111372726 B 20220607; EP 3713711 A1 20200930; EP 3713711 A4 20210818; JP 2021504169 A 20210215; US 2020391352 A1 20201217

DOCDB simple family (application)
IB 2018059063 W 20181116; CN 201880074834 A 20181116; EP 18880621 A 20181116; JP 2020545005 A 20181116; US 201816763005 A 20181116