

Title (en)

ABRASIVE ARTICLE WITH SHAPED ABRASIVE PARTICLES WITH PREDETERMINED RAKE ANGLES

Title (de)

SCHLEIFGEGENSTAND MIT GEFORMTEN SCHLEIFPARTIKELN MIT VORBESTIMMTEN SPANWINKELN

Title (fr)

ARTICLE ABRASIF DOTÉ DE PARTICULES ABRASIVES FAÇONNÉES DOTÉES D'ANGLES DE COUPE PRÉDÉTERMINÉS

Publication

EP 3784437 A1 20210303 (EN)

Application

EP 19727080 A 20190417

Priority

- US 201862661801 P 20180424
- IB 2019053180 W 20190417

Abstract (en)

[origin: WO2019207423A1] The present disclosure provides an abrasive article (10). The abrasive article (10) has a direction of use, a y-axis and a z-axis orthogonal to the y-axis and the direction of use. The abrasive article (10) further includes a backing (12) and shaped abrasive particles attached to the backing. About 5% to about 100% of the shaped abrasive particles (14) independently include a first side surface (16), a second side surface (18) opposed to the first side surface (16), a leading surface (20) connected to the first side surface (16) at a first edge (24) and connected to the second side surface (18) at a second edge (26), a rake angle (30) between the backing (12) and the leading surface (20) in a range of from about 10 degrees to about 110 degrees, and a z-direction rotational angle (50) between a line (52) intersecting the first edge (16) and second edge (18) and the direction of use (22) of the abrasive article (10) in a range of from about 10 degrees to about 170 degrees.

IPC 8 full level

B24D 11/00 (2006.01)

CPC (source: EP KR US)

B24D 11/00 (2013.01 - EP KR); **B24D 11/02** (2013.01 - US); **B24D 2203/00** (2013.01 - EP KR US)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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