

Title (en)  
METHOD FOR PRODUCING ABRASIVE PARTICLES

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON SCHLEIFMITTELTEILCHEN

Title (fr)  
PROCÉDÉ POUR LA PRODUCTION DE PARTICULES ABRASIVES

Publication  
**EP 4118163 A1 20230118 (DE)**

Application  
**EP 21709875 A 20210222**

Priority  
• AT 502012020 A 20200311  
• AT 2021060057 W 20210222

Abstract (en)  
[origin: WO2021179025A1] The invention relates to a method for producing abrasive particles, comprising the following method steps: i. preparing a starting mixture containing at least aluminium hydroxide, which mixture can be converted at least into aluminium oxide by means of heat treatment; ii. extruding the starting mixture to form an extrudate; iii. separating the extrudate into intermediate particles; and iv. heat-treating the intermediate particles, wherein the intermediate particles are converted into abrasive particles that contain aluminium oxide, wherein the extrudate and/or the intermediate particles is/are subjected to an input of energy that is asymmetrical with respect to the geometry of the extrudate and/or the intermediate particles.

IPC 8 full level  
**C09K 3/14** (2006.01); **B28B 1/00** (2006.01); **B29C 48/04** (2019.01)

CPC (source: AT EP KR US)  
**B01J 2/20** (2013.01 - KR); **B24D 3/06** (2013.01 - US); **B28B 1/004** (2013.01 - EP); **B28B 3/20** (2013.01 - US); **B28B 11/16** (2013.01 - US); **B28B 11/243** (2013.01 - US); **B29C 48/0022** (2019.01 - EP); **B29C 48/022** (2019.01 - EP); **B29C 48/04** (2019.01 - EP); **B29C 48/05** (2019.01 - EP); **B29C 48/345** (2019.01 - EP); **C01F 7/02** (2013.01 - KR); **C01F 7/025** (2013.01 - KR); **C01F 7/442** (2013.01 - US); **C09K 3/1409** (2013.01 - AT KR); **C09K 3/1418** (2013.01 - US); **C09K 3/1427** (2013.01 - EP); **B24D 3/14** (2013.01 - KR); **B24D 3/28** (2013.01 - KR); **C01P 2004/30** (2013.01 - US); **C01P 2004/61** (2013.01 - US)

Citation (search report)  
See references of WO 2021179025A1

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2021179025 A1 20210916**; AT 523400 A4 20210815; AT 523400 B1 20210815; CN 115279863 A 20221101; EP 4118163 A1 20230118; KR 20220144868 A 20221027; US 2023002655 A1 20230105

DOCDB simple family (application)  
**AT 2021060057 W 20210222**; AT 502012020 A 20200311; CN 202180020275 A 20210222; EP 21709875 A 20210222; KR 20227033577 A 20210222; US 202217941634 A 20220909