

Title (en)
PROCESSING SEGMENT FOR A MACHINING TOOL

Title (de)
BEARBEITUNGSSEGMENT FÜR EIN BEARBEITUNGSWERKZEUG

Title (fr)
SEGMENT D'USINAGE POUR UN OUTIL D'USINAGE

Publication
EP 3670050 A1 20200624 (DE)

Application
EP 18215310 A 20181221

Priority
EP 18215310 A 20181221

Abstract (en)
[origin: WO2020126091A1] The invention relates to a machining segment (41), which is composed of a first matrix material (44) and first hard material particles (45), the first hard material particles (45) being arranged in the first matrix material (44) according to a defined particle pattern and at the top (48) at least one of the first hard material particles (45) protruding from the first matrix material (44) by more than 400 µm.

Abstract (de)
Bearbeitungssegment (41), welches aus einem ersten Matrixwerkstoff (44) und ersten Hartstoffpartikeln (45) aufgebaut ist, wobei die ersten Hartstoffpartikel (45) gemäß einem definierten Partikelmuster im ersten Matrixwerkstoff (44) angeordnet sind und mindestens einer der ersten Hartstoffpartikel (45) gegenüber dem ersten Matrixwerkstoff (44) einen Überstand aufweist, der grösser als 400 µm ist.

IPC 8 full level
B23D 61/02 (2006.01); **B22F 5/00** (2006.01); **B24D 3/06** (2006.01); **B24D 99/00** (2010.01); **E21B 10/46** (2006.01)

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Citation (applicant)
• EP 2745965 A1 20140625 - HILTI AG [LI]
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Citation (search report)
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• [X] YOU JI ZHAN ET AL: "An experimental investigation of temperatures and energy partition in grinding of cemented carbide with a brazed diamond wheel", THE INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, SPRINGER, BERLIN, DE, vol. 61, no. 1 - 4, 11 November 2011 (2011-11-11), pages 117 - 125, XP035073582, ISSN: 1433-3015, DOI: 10.1007/S00170-011-3706-7
• [X] WANG C Y ET AL: "Interfacial microstructure and performance of brazed diamond grits with Ni-Cr-P alloy", JOURNAL OF ALLOYS AND COMPOUNDS, ELSEVIER SEQUOIA, LAUSANNE, CH, vol. 476, no. 1-2, 12 May 2009 (2009-05-12), pages 884 - 888, XP026044895, ISSN: 0925-8388, [retrieved on 20081118], DOI: 10.1016/J.JALLCOM.2008.09.134
• [X] JIANYI CHEN ET AL: "An experimental study on the grinding of alumina with a monolayer brazed diamond wheel", THE INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, SPRINGER, BERLIN, DE, vol. 41, no. 1-2, 4 June 2008 (2008-06-04), pages 16 - 23, XP019700455, ISSN: 1433-3015

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