

Title (en)

GRINDING DEVICE AND GRINDING IMPLEMENT FOR SAID GRINDING DEVICE

Title (de)

SCHLEIFVORRICHTUNG UND SCHLEIFGERÄT FÜR BESAGTE SCHLEIFVORRICHTUNG

Title (fr)

DISPOSITIF DE MEULAGE ET ÉLÉMENT DE MEULAGE POUR LEDIT DISPOSITIF DE MEULAGE

Publication

EP 3385032 A4 20190102 (EN)

Application

EP 16878053 A 20160902

Priority

- JP 2015253715 A 20151225
- JP 2016075869 W 20160902

Abstract (en)

[origin: EP3385032A1] Provided is a grinding device that prevents a surface of a grinding element from being evenly worn, thereby preventing a drastic decline in grinding capability and a grinding burn. The grinding device 1 according to the present invention includes a support unit 20 attached to a rotary shaft 12 driven by a rotary drive unit 11, so as to be rotatable integrally with the rotary shaft 12, and a grinding element 30 stacked on the support unit 20 and having an uneven grinding surface 31 formed by a plurality of abrasive grains. The support unit 20 has, in a surface thereof, protruding surface portions 21 to be brought into contact with a rear surface of the grinding element 30 when in use, and recessed surface portions 22 recessed from the protruding surface portions 21, alternately located in a circumferential direction. An engagement mechanism 50 which makes an engagement at each of predetermined angular positions so as to retain the grinding element 30 or the support unit 20 moved by a predetermined angle in the circumferential direction, is provided between the support unit 20 and the grinding element 30, between the rotary shaft 12 and the grinding element 30, or between the rotary shaft 12 and the support unit 30.

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

- [XY] US 2997819 A 19610829 - SCHACHT ELMER C
- [XY] US 2005202760 A1 20050915 - PALMGREN GARY M [US]
- [XY] EP 0904896 A2 19990331 - YANASE KABUSHIKI KAISHA [JP]
- [Y] EP 0459697 A1 19911204 - BLACK & DECKER INC [US]
- See references of WO 2017110156A1

Designated contracting state (EPC)

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DOCDB simple family (application)

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