

Title (en)

SUPER HARD ALLOY BASEPLATE OUTER CIRCUMFERENCE CUTTING BLADE AND MANUFACTURING METHOD THEREOF

Title (de)

AUSSENUMFANGSSCHNEIDEKLINGE FÜR EINE BODENPLATTE AUS EINER SUPERHARTEN LEGIERUNG UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

LAME DE COUPE À CIRCONFÉRENCE EXTERNE À PLAQUE DE BASE EN ALLIAGE SUPER-DUR ET SON PROCÉDÉ DE FABRICATION

Publication

EP 2647469 A1 20131009 (EN)

Application

EP 11844821 A 20111128

Priority

- JP 2010264821 A 20101129
- JP 2010264828 A 20101129
- JP 2011077311 W 20111128

Abstract (en)

The disclosed cemented carbide base outer blade cutting wheel comprises a base in the form of an annular thin disc of cemented carbide, and a blade section on the outer periphery of the base. The blade section contains: diamond and/or CBN abrasive grains pre-coated with a magnetic material; a metal or alloy bond formed by electroplating or electroless plating for bonding abrasive grains together and to the base; a resin infiltrated between abrasive grains and between abrasive grains and the base, said resin being a thermoplastic resin having a melting point of up to 350°C or a thermoset resin obtained by curing a liquid thermosetting resin composition having a curing temperature of up to 350°C. The method for manufacturing said outer blade cutting wheel is also disclosed.

IPC 8 full level

B24D 5/12 (2006.01); **B24D 3/00** (2006.01); **B24D 3/02** (2006.01); **B24D 3/06** (2006.01); **B24D 3/28** (2006.01)

CPC (source: EP KR US)

B24D 3/02 (2013.01 - KR); **B24D 3/06** (2013.01 - EP KR US); **B24D 3/10** (2013.01 - EP KR US); **B24D 3/28** (2013.01 - KR); **B24D 5/12** (2013.01 - EP KR US)

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

DOCDB simple family (publication)

EP 2647469 A1 20131009; **EP 2647469 A4 20170830**; **EP 2647469 B1 20200603**; CN 103313825 A 20130918; CN 103313825 B 20160810; KR 20140005911 A 20140115; MY 170393 A 20190727; MY 193551 A 20221018; MY 193556 A 20221019; PH 12018500478 A1 20190218; PH 12018500478 B1 20190218; SG 190924 A1 20130731; TW 201238715 A 20121001; TW I556913 B 20161111; US 2013252521 A1 20130926; WO 2012073855 A1 20120607

DOCDB simple family (application)

EP 11844821 A 20111128; CN 201180065608 A 20111128; JP 2011077311 W 20111128; KR 20137016382 A 20111128; MY PI2013001918 A 20111128; MY PI2017000178 A 20111128; MY PI2017000179 A 20111128; PH 12018500478 A 20180306; SG 2013041520 A 20111128; TW 100143755 A 20111129; US 201113990121 A 20111128