

Title (en)

Saw blade and method for multiple sawing of rare earth magnet

Title (de)

Sägeblatt und Verfahren zum mehrfachen Sägen eines Seltenerdmagneten

Title (fr)

Lame de scie et procédé pour sciage multiple d'aimant à teneur en terre rare

Publication

EP 2596929 A1 20130529 (EN)

Application

EP 12194492 A 20121127

Priority

JP 2011259157 A 20111128

Abstract (en)

A multiple blade assembly comprising a plurality of spaced apart saw blades mounted on a rotating shaft is used for sawing a rare earth magnet block into multiple pieces by rotating the plurality of saw blades (11). The saw blade comprises a core in the form of a thin doughnut disk (11b,21) and a peripheral cutting part (11a,23) on an outer peripheral rim of the core. The cutting part is made of a composition comprising an abrasive, a resin binder, and a lubricant.

IPC 8 full level

B24D 3/34 (2006.01); **B28D 5/02** (2006.01)

CPC (source: EP KR US)

B24B 1/00 (2013.01 - US); **B24B 27/06** (2013.01 - KR); **B24D 3/346** (2013.01 - EP US); **B24D 5/12** (2013.01 - EP US); **B26D 1/14** (2013.01 - KR); **B28D 1/24** (2013.01 - KR); **B28D 5/029** (2013.01 - EP US)

Citation (applicant)

JP H10175172 A 19980630 - SHINETSU CHEMICAL CO

Citation (search report)

- [Y] US 6386948 B1 20020514 - KONDO SADAHIKO [JP]
- [Y] US 5313742 A 19940524 - CORCORAN JR ROBERT F [US], et al
- [AD] JP H10175172 A 19980630 - SHINETSU CHEMICAL CO
- [A] EP 2189245 A2 20100526 - SHINETSU CHEMICAL CO [JP]

Designated contracting state (EPC)

DE FR GB

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BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 12194492 A 20121127; CN 201210599241 A 20121128; JP 2012257024 A 20121126; KR 20120135244 A 20121127; MY PI2012005070 A 20121123; SG 2012087334 A 20121128; TW 101144219 A 20121126; US 201213687039 A 20121128