

Title (en)

METHOD FOR THE MANUFACTURE OF A MATERIAL FOR THE PRODUCTION OF RARE EARTH MAGNETS

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES MATERIALS FÜR DIE HERSTELLUNG VON SELTENERD-MAGNETEN

Title (fr)

PROCÉDÉ DE FABRICATION D'UN MATÉRIAU POUR LA FABRICATION D'AIMANTS EN TERRES RARES

Publication

EP 3572165 B1 20240403 (DE)

Application

EP 19170743 A 20190424

Priority

DE 102018112411 A 20180524

Abstract (en)

[origin: JP2019203190A] To provide a production method and a production plant of a departure material optimized for producing high performance rare earth magnet.SOLUTION: There is provided a production method of powdery departure materials AM1, AM2 for producing rare earth magnet, comprising steps of: preparing at least one magnetic raw material or magnetization possible raw material M; pulverizing the same, in which a powdery intermediate product ZP is produced, the powdery particles 2 of the powdery intermediate product ZP comprise a corner part and/or an edge part; chamfering the powdery particles 2 of the powdery intermediate product ZP; using the optimized powdery product 10 as a first departure material AM1 for producing a first rare earth magnet 19, or classifying the optimized powdery products 10, in which minute wear part F generated in chamfering is removed, after classification, the fraction including powdery particles 12 subjected to chamfering is used as a second departure material AM2 for producing a second rare earth magnet 20.SELECTED DRAWING: Figure 5

IPC 8 full level

B22F 1/065 (2022.01); **B22F 9/04** (2006.01); **H01F 1/057** (2006.01)

CPC (source: CN EP KR RU US)

B22F 1/065 (2022.01 - CN EP KR RU US); **B22F 9/04** (2013.01 - CN EP US); **H01F 1/053** (2013.01 - CN KR RU); **H01F 1/057** (2013.01 - RU); **H01F 1/0571** (2013.01 - EP); **H01F 1/0576** (2013.01 - US); **H01F 1/06** (2013.01 - CN KR); **H01F 41/00** (2013.01 - CN); **H01F 41/0293** (2013.01 - KR US); **B22F 2999/00** (2013.01 - EP); **C22C 2202/02** (2013.01 - EP)

C-Set (source: EP)

B22F 2999/00 + **B22F 9/04** + **B22F 3/003**

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DOCDB simple family (publication)

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