

Title (en)

PROCESS AND SYSTEM FOR PRODUCING GRANULATION POWDER OF RARE EARTH ALLOY AND PROCESS FOR PRODUCING SINTERED OBJECT OF RARE EARTH ALLOY

Title (de)

VERFAHREN UND SYSTEM ZUR HERSTELLUNG VON GRANULIERPULVER EINER SELTENERDENLEGIERUNG UND VERFAHREN ZUR HERSTELLUNG EINES GESINTERTEN OBJEKTS AUS EINER SELTENERDENLEGIERUNG

Title (fr)

PROCEDE ET SYSTEME PERMETTANT DE PRODUIRE UNE POUDRE GRANULAIRE D'ALLIAGE A BASE DE TERRES RARES ET PROCEDE DE PRODUCTION D'UN OBJET FRITTE A BASE DUDIT ALLIAGE DE TERRES RARES

Publication

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Application

EP 04734936 A 20040526

Priority

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- JP 2003148567 A 20030527

Abstract (en)

[origin: EP1642661A1] A method for making a granulated powder according to the present invention includes the steps of: preparing a rare-earth alloy powder with remanent magnetization; feeding the powder onto a track 22, which is defined by a side surface 22a and a lower surface 22b that is sloped so as to decrease its height toward the side surface; and setting up vibrations on the track to give the powder kinetic energy, thereby transporting the powder along the length of the track and granulating the powder under a substantially zero magnetic field by utilizing an agglomeration force produced by the remanent magnetization of the powder and a tumbling action produced by the kinetic energy. As a result, a rare-earth alloy granulated powder, which has good flowability and good compactibility and which makes it possible to produce a magnet with excellent magnetic properties, can be obtained.

IPC 8 full level

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Citation (search report)

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DE

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EP 04734936 A 20040526; CN 200480001455 A 20040526; CN 201010175502 A 20040526; DE 602004022051 T 20040526; JP 2004007586 W 20040526; JP 2005506541 A 20040526