

Title (en)
TITANIUM POWDER AND METHOD FOR PRODUCING SAME

Title (de)
TITANPULVER UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)
POUDRE DE TITANE ET SON PROCÉDÉ DE PRODUCTION

Publication
EP 3766601 A4 20211201 (EN)

Application
EP 19767251 A 20190306

Priority
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• JP 2019008968 W 20190306

Abstract (en)
[origin: EP3766601A1] To provide titanium-based powder in which the pores in titanium powder are reduced. A titanium-based powder having a ratio of a pore area obtained by dividing a cross-sectional area of pores in a cross-section of the titanium-based powder by an area of the cross-section of the titanium-based powder is 0.3% or less. A method for producing a titanium-based powder includes a Hydrogenation-DeHydrogenation method including a hydrogenation process, a pulverization process, and a dehydrogenation process using a titanium-based raw material is provided. A concentration of total $MgCl_2$ contained in the titanium-based raw material is 1.0 mass% or less, and a concentration of internal $MgCl_2$ contained in the titanium-based raw material is 0.1 mass% or less.

IPC 8 full level
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CPC (source: EP US)
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Citation (search report)
• [XYI] JP 2013112878 A 20130610 - TOHO TITANIUM CO LTD
• [XY] US 6168644 B1 20010102 - FUKASAWA EIICHI [JP], et al
• [X] MCCracken C G ET AL: "Key characteristics of hydride-dehydride titanium powder", POWDER METALLURGY., vol. 54, no. 3, 1 July 2011 (2011-07-01), GB, pages 180 - 183, XP055853660, ISSN: 0032-5899, Retrieved from the Internet <URL:https://www.tandfonline.com/doi/pdf/10.1179/174329011X13045076771849> [retrieved on 20211021], DOI: 10.1179/174329011X13045076771849
• See references of WO 2019176700A1

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EP 19767251 A 20190306; CN 201980019823 A 20190306; JP 2019008968 W 20190306; JP 2020506443 A 20190306; TW 108107892 A 20190308