

Title (en)
TYPE TITANIUM ALLOY AND PROCESS FOR PRODUCING THE SAME

Title (de)
TITANLEGIERUNG VOM BETA-TYP UND HERSTELLUNGSVERFAHREN DAF R

Title (fr)
ALLIAGE DE TITANE DE TYPE B TA ET PROC D DE FABRICATION ASSOCI

Publication
EP 1533391 A4 20060215 (EN)

Application
EP 03736120 A 20030609

Priority
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Abstract (en)
[origin: EP1533391A1] The present invention provides a ² type titanium alloy characterized by consisting of, by mass %, V: 15 to 25%, Al: 2.5 to 5%, Sn: 0.5 to 4%, O (Oxygen): not more than 0.20%, H: not more than 0.03%, Fe: not more than 0.40%, C: not more than 0.05% and N: not more than 0.02%, and the balance Ti and impurities. The present invention also provides a method of manufacturing a ² type titanium alloy characterized by comprising the following steps (a) to (c): (a) Preparing a ² type titanium alloy consisting of, by mass %, V: 15 to 25%, Al: 2.5 to 5%, Sn: 0.5 to 4%, O (Oxygen): not more than 0.20%, H: not more than 0.03%, Fe: not more than 0.40%, C: not more than 0.05% and N: not more than 0.02%, and the balance Ti and impurities. (b) Pickling the ² type titanium alloy in an aqueous solution including 3 to 40 mass % of HF, and (c) Further pickling the ² type titanium alloy in an aqueous solution including 3 to 6 mass % of HF and 5 to 20 mass % of HNO₃.

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C22C 14/00; **C23G 1/12**

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Citation (search report)
[AP] "Chemistry data of the alloy Ti 15-3", INTERNET DATABASE, XP002349549, Retrieved from the Internet <URL:www.suppliersonline.com> [retrieved on 20051011]

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