

Title (en)  
METHOD FOR CASTING TI-AL BASED ALLOY

Title (de)  
VERFAHREN ZUM GIESSEN EINER LEGIERUNG AUF TI-AL-BASIS

Title (fr)  
PROCÉDÉ DE COULÉE D'ALLIAGE À BASE DE TI-AL

Publication  
**EP 3995227 A4 20220817 (EN)**

Application  
**EP 20850248 A 20200710**

Priority  
• JP 2019143776 A 20190805  
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Abstract (en)  
[origin: EP3995227A1] The objective of the present invention is to improve non-defective product yield by reducing shrinkage cavities inside small-diameter ingots, in a method for casting active metals. In this Ti-Al based alloy casting method for casting an ingot of Ti-Al based alloy by tapping molten metal from a tapping hole (5) provided in a bottom portion of a water-cooled copper crucible (2), in an induction melting furnace (3) employing said crucible (2), into a casting mold (4), the degree of vacuum inside the induction melting furnace (3) when the Ti-Al based alloy is being melted or cast is in a range of 80 to 700 Torr, and the Al concentration in the cast ingot is within  $\pm 1.0$  mass% of a target value.

IPC 8 full level  
**B22D 21/02** (2006.01); **B22D 7/00** (2006.01); **B22D 21/00** (2006.01); **B22D 27/15** (2006.01)

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Citation (search report)  
• [Y] WO 2018110370 A1 20180621 - KOBE STEEL LTD [JP]  
• [Y] JP H08238553 A 19960917 - HONDA MOTOR CO LTD  
• [A] JP H05154642 A 19930622 - NIPPON KOKAN KK  
• See references of WO 2021024704A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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DOCDB simple family (publication)  
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