

Title (en)
ALUMINUM ALLOY INGOT AND METHOD FOR MANUFACTURING SAME

Title (de)
ALUMINIUMLEGIERUNGSBARREN UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
LINGOT D'ALLIAGE D'ALUMINIUM ET SON PROCÉDÉ DE FABRICATION

Publication
EP 4098382 A4 20221221 (EN)

Application
EP 21750895 A 20210205

Priority

- JP 2020109517 A 20200625
- JP 2020018896 A 20200206
- JP 2021004225 W 20210205

Abstract (en)
[origin: EP4098382A1] An aluminum-alloy ingot comprises: an aluminum matrix (1); and TiB₂ aggregates (2), which are dispersed in the aluminum matrix (1) and in which TiB₂ particles (3) are aggregated. The average value of the circle-equivalent diameters of the TiB₂ aggregates (2) in the state in which the TiB₂ aggregates (2) are exposed from the aluminum matrix (1) is 3.0 μm or less and the average value of the circularities is 0.20 or more.

IPC 8 full level
B22D 21/04 (2006.01); **B22D 11/00** (2006.01); **B22D 21/00** (2006.01); **C22C 1/02** (2006.01); **C22C 1/06** (2006.01); **C22C 21/00** (2006.01)

CPC (source: EP US)
B22D 7/005 (2013.01 - US); **B22D 21/007** (2013.01 - EP); **C22C 1/026** (2013.01 - EP US); **C22C 1/06** (2013.01 - EP); **C22C 21/00** (2013.01 - EP US)

Citation (search report)

- [I] CN 106086538 A 20161109 - UNIV SHANGHAI JIAOTONG
- [I] CN 104264001 A 20150107 - KING STRONG MATERIAL ENGINEERING CO LTD, et al
- See also references of WO 2021157683A1

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

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4098382 A1 20221207; **EP 4098382 A4 20221221**; **EP 4098382 B1 20240403**; **EP 4098382 B9 20240710**; CN 114761152 A 20220715; US 2023075358 A1 20230309; WO 2021157683 A1 20210812

DOCDB simple family (application)
EP 21750895 A 20210205; CN 202180006960 A 20210205; JP 2021004225 W 20210205; US 202117759929 A 20210205