

Title (en)  
ALUMINUM ALLOY MATERIAL

Title (de)  
ALUMINIUMLEGIERUNGSMATERIAL

Title (fr)  
ALLIAGE D'ALUMINIUM

Publication  
**EP 4043602 A4 20231101 (EN)**

Application  
**EP 20874847 A 20201008**

Priority  
• JP 2019185298 A 20191008  
• JP 2020038086 W 20201008

Abstract (en)  
[origin: US2022127701A1] An aluminum alloy material contains Mg: 7.0% to 10.0% (% by mass, the same applies hereinafter) and Ca: not more than 0.1%, and the aluminum alloy material contains a remainder constituted by aluminum and an inevitable impurity. The aluminum alloy material has a tensile strength of not less than 500 MPa and an elongation of not less than 3% and less than 10%.

IPC 8 full level  
**C22C 21/06** (2006.01); **C22F 1/047** (2006.01)

CPC (source: CN EP KR US)  
**B21B 3/00** (2013.01 - CN); **C22C 21/06** (2013.01 - EP KR US); **C22C 21/08** (2013.01 - CN); **C22F 1/047** (2013.01 - CN EP KR US);  
**B21B 2003/001** (2013.01 - CN)

Citation (search report)  
• [X] US 2841512 A 19580701 - COOPER HUGH S  
• [X] CN 109097710 A 20181228 - UNIV TSINGHUA  
• [A] JP 2009024219 A 20090205 - KOBE STEEL LTD  
• [A] JP H06145868 A 19940527 - FURUKAWA ALUMINIUM, et al  
• [A] EP 2169088 A1 20100331 - SUMITOMO LIGHT METAL IND [JP]  
• See also references of WO 2021070889A1

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

DOCDB simple family (publication)  
**US 2022127701 A1 20220428**; CN 113661264 A 20211116; CN 113661264 B 20240227; CN 117802367 A 20240402; EP 4043602 A1 20220817; EP 4043602 A4 20231101; JP 2021059762 A 20210415; JP 7414452 B2 20240116; KR 20220079494 A 20220613; TW 202120708 A 20210601; WO 2021070889 A1 20210415

DOCDB simple family (application)  
**US 202017429803 A 20201008**; CN 202080026613 A 20201008; CN 202311657194 A 20201008; EP 20874847 A 20201008; JP 2019185298 A 20191008; JP 2020038086 W 20201008; KR 20217032645 A 20201008; TW 109134817 A 20201007