

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

Title (de)
ALUMINIUMLEGIERUNGSPLATTE UND HERSTELLUNGSVERFAHREN DAFÜR

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

Publication
EP 4036274 A4 20231122 (EN)

Application
EP 20868265 A 20200924

Priority
• JP 2019177015 A 20190927
• JP 2020075335 A 20200421
• JP 2020035953 W 20200924

Abstract (en)
[origin: EP4036274A1] An aluminum alloy material having a base material formed from an aluminum alloy, and a chemical treatment film on the surface of the base material, wherein, in a cathode polarization curve obtained by measuring the aluminum alloy material at a sweeping speed of 20 mV/min by using a saturated KCl silver-silver chloride electrode as a reference electrode in a 5 wt% NaCl static aqueous solution at a temperature of 25°C and a pH of 5.5, the electrode potential at which the absolute value of the current density reaches 10 $\mu\text{A}/\text{cm}^2$ is -1350 to -1150 mV.

IPC 8 full level
C23C 22/34 (2006.01); **C23G 1/12** (2006.01)

CPC (source: EP US)
C22C 21/06 (2013.01 - US); **C23C 22/34** (2013.01 - EP US); **C23C 22/78** (2013.01 - US); **C23G 1/125** (2013.01 - EP)

Citation (search report)
• [X] US 6562148 B1 20030513 - WENDEL THOMAS [DE], et al
• [XI] EP 2537674 A1 20121226 - NIHON PARKERIZING [JP], et al
• [XP] WO 2020148412 A1 20200723 - CONSTELLUM NEUF BRISACH [FR], et al
• See references of WO 2021060346A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 4036274 A1 20220803; EP 4036274 A4 20231122; CN 114746579 A 20220712; JP 2021055178 A 20210408; JP 6846558 B1 20210324; US 2022290304 A1 20220915; WO 2021060346 A1 20210401

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EP 20868265 A 20200924; CN 202080082571 A 20200924; JP 2020035953 W 20200924; JP 2020075335 A 20200421; US 202017754173 A 20200924