

Title (en)
ANODIZED ALUMINUM WITH DARK GRAY COLOR

Title (de)
ELOXIERTES ALUMINIUM MIT DUNKELGRAUER FARBE

Title (fr)
ALUMINIUM ANODISÉ DE COULEUR GRIS FONCÉ

Publication
EP 3500689 B1 20231004 (EN)

Application
EP 17758674 A 20170811

Priority

- US 201662375932 P 20160817
- US 2017046444 W 20170811

Abstract (en)
[origin: US2018051387A1] Provided herein are aluminum alloys and aluminum sheets including alloys that have a natural dark gray color when anodized. The alloys do not require any absorptive or electrolytic coloration process separate from the anodization process to achieve the dark gray coloration. Also provided herein are methods for making such aluminum alloys.

IPC 8 full level
C22F 1/04 (2006.01); **C22C 21/06** (2006.01); **C25D 11/14** (2006.01)

CPC (source: EP KR RU US)
C22C 21/06 (2013.01 - EP RU US); **C22C 21/08** (2013.01 - EP KR US); **C22F 1/04** (2013.01 - EP US); **C22F 1/047** (2013.01 - EP KR RU US); **C25D 11/04** (2013.01 - EP US); **C25D 11/14** (2013.01 - RU); **C25D 11/16** (2013.01 - EP KR US); **C25D 15/00** (2013.01 - KR US)

Citation (examination)
JP 2009209426 A 20090917 - SUMITOMO LIGHT METAL IND

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 2018051387 A1 20180222; AU 2017312853 A1 20190307; AU 2017312853 B2 20190919; BR 112019002606 A2 20190528; BR 112019002606 B1 20220712; CA 3033962 A1 20180222; CA 3033962 C 20210126; CN 109642300 A 20190416; CN 109642300 B 20210525; EP 3500689 A1 20190626; EP 3500689 B1 20231004; ES 2960834 T3 20240306; HU E063474 T2 20240128; JP 2019531404 A 20191031; JP 7149262 B2 20221006; KR 20190040007 A 20190416; MX 2019001837 A 20190509; PL 3500689 T3 20240115; RU 2717622 C1 20200324; SA 519401070 B1 20220619; WO 2018034960 A1 20180222

DOCDB simple family (application)
US 201715674680 A 20170811; AU 2017312853 A 20170811; BR 112019002606 A 20170811; CA 3033962 A 20170811; CN 201780050235 A 20170811; EP 17758674 A 20170811; ES 17758674 T 20170811; HU E17758674 A 20170811; JP 2019508187 A 20170811; KR 20197007303 A 20170811; MX 2019001837 A 20170811; PL 17758674 T 20170811; RU 2019105433 A 20170811; SA 519401070 A 20190210; US 2017046444 W 20170811