

Title (en)

Method of manufacturing an aluminum alloy sheet for lithographic printing plate

Title (de)

Herstellungsverfahren eines Aluminiumlegierungsblechs für eine lithographische Druckplatte

Title (fr)

Procédé de fabrication d'une feuille d'alliage d'aluminium pour plaque d'impression lithographique

Publication

EP 2426227 A1 20120307 (EN)

Application

EP 11179125 A 20110829

Priority

- JP 2010198400 A 20100903
- JP 2011161476 A 20110725

Abstract (en)

An aluminum alloy sheet for a lithographic printing plate which has the excellent ink stain resistance, with a local defect in a photosensitive layer after long-term storage being hard to occur, and excellent the pit uniformity after a roughening and a manufacturing method thereof are provided. An aluminum alloy sheet for a lithographic printing plate containing a predetermined content of Fe, Si, Cu and Ti as well as one type or more selected from B and C, and composed of remaining Al and inevitable impurities, in which a concentration of an aluminum carbide present in the aluminum alloy sheet is not more than 8 ppm, an area occupancy of aggregation substances present on the aluminum alloy sheet surface after the roughening treatment with respect to an arbitrary circle with a radius 5 μm in the aluminum alloy sheet surface is less than 10%. In a case where the area occupancy is not less than 10%, the aggregation substances are present at a rate of 1 to 2 pieces/50 cm^2 .

IPC 8 full level

C22C 21/00 (2006.01); **C22B 21/06** (2006.01); **C22C 1/02** (2006.01)

CPC (source: EP US)

B41N 1/083 (2013.01 - EP US); **C22B 21/062** (2013.01 - EP US); **C22B 21/064** (2013.01 - EP US); **C22B 21/066** (2013.01 - EP US); **C22C 1/02** (2013.01 - EP US); **C22C 1/026** (2013.01 - EP US); **C22C 21/00** (2013.01 - EP US); **C22F 1/04** (2013.01 - EP US)

Citation (applicant)

- JP 2009006386 A 20090115 - FUJIFILM CORP
- US 2009220376 A1 20090903 - KERNIG BERNHARD [DE], et al
- JP 2007167863 A 20070705 - KOBE STEEL LTD, et al

Citation (search report)

[XD] JP S62146694 A 19870630 - NIPPON LIGHT METAL CO, et al

Cited by

CN111719059A; CN111471878A; CN113322400A

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

DOCDB simple family (publication)

EP 2426227 A1 20120307; CN 102381073 A 20120321; JP 2012072487 A 20120412; US 2012134875 A1 20120531

DOCDB simple family (application)

EP 11179125 A 20110829; CN 201110252285 A 20110830; JP 2011161476 A 20110725; US 201113199553 A 20110901