

Title (en)

Aluminum alloy support for lithographic printing plate

Title (de)

Träger aus einer Aluminiumlegierung für eine lithographische Druckplatte

Title (fr)

Support en alliage d'aluminium pour plaque lithographique

Publication

EP 0887430 A1 19981230 (EN)

Application

EP 97110527 A 19970626

Priority

EP 97110527 A 19970626

Abstract (en)

Disclosed is an aluminum alloy support for a lithographic printing plate, which is excellent in both fatigue strength and resistance against repeated bending, particularly, irrespective of the rolling direction. The aluminum alloy support contains 0.20-0.50 wt% of Fe, 0.05-0.20 wt% of Si, and 5-300 ppm of Cu, the balance being Al and inevitable impurities, wherein an aspect ratio of each of crystal grains in a micro-surface structure is within a range of 6 to 30. Further, in the aluminum alloy support, the yield strength is within a range of 145 to 190 N/mm², the fatigue strength is within a range of 4×10^4 or more, and the number of repetitions of bending is 8 times or more.

IPC 1-7

C22C 21/00; **B41N 1/08**

IPC 8 full level

B41N 1/08 (2006.01); **C22C 21/00** (2006.01)

CPC (source: EP)

B41N 1/083 (2013.01); **C22C 21/00** (2013.01)

Citation (search report)

- [X] EP 0652298 A1 19950510 - FUJI PHOTO FILM CO LTD [JP]
- [X] GB 1421710 A 19760121 - BRITISH ALUMINIUM CO LTD
- [X] DATABASE WPI Section Ch Week 9638, Derwent World Patents Index; Class G06, AN 96-375435, XP002047779
- [X] DATABASE WPI Section Ch Week 9514, Derwent World Patents Index; Class G05, AN 95-102285, XP002047780
- [X] DATABASE WPI Section Ch Week 9539, Derwent World Patents Index; Class G05, AN 95-300017, XP002047781

Cited by

EP1231075A3; EP1033261A3; US7789978B2; US9741978B2; US7037635B2; US6475630B1; US11326232B2; WO03023079A1; WO2006134542A3

Designated contracting state (EPC)

DE NL

DOCDB simple family (publication)

EP 0887430 A1 19981230; **EP 0887430 B1 20030625**; **EP 0887430 B2 20090624**; DE 69723061 D1 20030731; DE 69723061 T2 20040429; DE 69723061 T3 20100610

DOCDB simple family (application)

EP 97110527 A 19970626; DE 69723061 T 19970626