

Title (en)

ALUMINIUM ALLOY, A SUPPORT OF LITHOGRAPHIC PRINTING PLATE AND A LITHOGRAPHIC PRINTING PLATE USING THE SAME

Publication

EP 0096347 A3 19840425 (EN)

Application

EP 83105393 A 19830531

Priority

- JP 9207982 A 19820601
- JP 9208082 A 19820601

Abstract (en)

[origin: EP0096347A2] An aluminium alloy, a lithographic printing plate support, a lithographic printing plate and a process for producing it are disclosed. The plate support is produced by providing an aluminium alloy material which is comprised of 0.20 to 1.0% Fe, 0.005 to 0.1% of an element selected from the group consisting of Sn, In, Ga and Zn and the remainder being aluminium. The alloy may further contain 0.1 to 2% Cu and/or 0.1 to 0.6% Mg. After providing the aluminium material either or both of its surfaces are subjected to a chemical etching treatment in order to provide a uniform and dense grain structure on the surface forming primary pits in the surface having a particularly defined average size. The surface is then optionally subjected to electrochemical etching treatment in an acidic electrolytic solution in order to provide secondary pits on the surface also having a particularly defined average size. The support base may be further treated to provide in additional coating thereon or directly coated with a light-sensitive layer in order to provide a light-sensitive lithographic printing plate. By providing the particular alloy material and subjecting it to the disclosed treatment the light-sensitive layer has good adhesion with respect to the support.

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] US 3063832 A 19621113 - SNYDER CLERMONT J
- [X] FR 371525 A 19070309 - ALEXANDRE CHAMBAUD [FR]
- [Y] FR 89561 E
- [Y] US 3393138 A 19680716 - HINE ROY A
- [YP] CHEMICAL ABSTRACTS, vol. 98, 1983, page 281, no. 184150b, Columbus, Ohio, US & JP - A - 58 01 048 (SUMITOMO METAL INDUSTRIES, LTD.) 06-01-1983

Cited by

US4655136A; EP0278766A3; US5395489A; GB2379669B; CN104404516A; EP0193710A3; US4686083A; US4672022A; CN102049915A; US7789978B2; WO03023079A1; EP0589996B1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0096347 A2 19831221; **EP 0096347 A3 19840425**; **EP 0096347 B1 19880921**; DE 3378063 D1 19881027; DE 96347 T1 19840705

DOCDB simple family (application)

EP 83105393 A 19830531; DE 3378063 T 19830531; DE 83105393 T 19830531