

Title (en)

Production of support for lithographic printing plate

Title (de)

Herstellung eines Trägers für eine Flachdruckplatte

Title (fr)

Fabrication d'un support pour une plaque lithographique

Publication

EP 1176031 A1 20020130 (EN)

Application

EP 01000213 A 20010614

Priority

- EP 01000213 A 20010614
- EP 00202518 A 20000717

Abstract (en)

The present invention provides a process for the manufacture of a substrate for use in the production of lithographic printing plates, the process comprising the steps of: (a) providing an aluminium substrate; (b) graining at least one surface of said substrate; (c) applying an anodic layer to said at least one grained surface; (d) treating said at least one grained and anodised surface with an aqueous solution comprising at least one salt of a metal from Group IB, IIB, IVA, IVB, VB, VIA, VIB, VIIB or VIII of the Periodic Table; and (e) treating said at least one treated surface with an aqueous solution comprising at least one orthophosphate salt of an alkali metal. Lithographic printing plates produced from aluminium supports obtained by the method of the present invention show excellent performance in terms of ease of deletion, as well as good corrosion resistance, solvent resistance, clean-up and roll-up on press. No background staining is observed and plates exhibit excellent ink-water balance and damping latitude performance, as well as good run length.

IPC 1-7

B41N 3/03

IPC 8 full level

B41N 3/03 (2006.01)

CPC (source: EP)

B41N 3/034 (2013.01); **B41N 3/038** (2013.01); **C22C 21/00** (2013.01)

Citation (search report)

- [A] US 4970116 A 19901113 - KIMURA TAKESHI [JP], et al
- [A] EP 0497351 A1 19920805 - FUJI PHOTO FILM CO LTD [JP]
- [A] US 3440050 A 19690422 - CHU SIMON
- [A] DE 4105887 A1 19910912 - FUJI PHOTO FILM CO LTD [JP]
- [A] GB 2166255 A 19860430 - NIPPON FOIL MFG
- [A] GB 1282944 A 19720726 - ALUSUISSE [CH]

Cited by

EP1506854A1; EP1972461A1; EP2138592A3; CN110527994A; US7685738B2; US7225560B2; WO2008113722A1; TWI405856B

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1176031 A1 20020130; EP 1176031 B1 20040407

DOCDB simple family (application)

EP 01000213 A 20010614