Title (en)

PROCESS FOR THE SINGLE STEP ANODIC OXIDATION OF ALUMINIUM SUBSTRATES FOR OFFSET PRINTING PLATES

Publication

EP 0141056 B1 19871104 (DE)

Application

EP 84108775 A 19840725

Priority

DE 3328049 A 19830803

Abstract (en)

[origin: US4604341A] A process is disclosed for the production of bases for offset printing plates in the form of sheets, foils or webs made of roughened aluminum or one of its alloys, which is carried out in an anodic oxidation stage, i.e. in an aqueous electrolyte which contains phosphorus-containing anions. In the procedure, an electrolyte containing dissolved phosphoroxo anions, with the exception of aqueous H3PO4, is employed, and the treatment is carried out for a period of about 1 to 90 seconds, at a voltage between about 10 and 100 volts and at a temperature of about 10 DEG to 80 DEG C. The electrolyte is, in particular, a salt of an oxyacid of phosphorus, such as Na3PO4 or K3PO4. Hydrophilization of the base can be carried out additionally after the anodic oxidation. Also disclosed is a base material produced according to the process and an offset printing plate which includes the base material.

IPC 1-7

C25D 11/08; B41N 1/08

IPC 8 full level

B41N 1/08 (2006.01); **B41N 3/00** (2006.01); **B41N 3/03** (2006.01); **C25D 11/06** (2006.01); **C25D 11/08** (2006.01)

CPC (source: EP US)

B41N 3/034 (2013.01 - EP US); **C25D 11/08** (2013.01 - EP US); Y10S 205/921 (2013.01 - EP US)

Citation (examination)

EP 0050216 A2 19820428 - HOECHST CO AMERICAN [US]

Designated contracting state (EPC)

BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

DE 3328049 A1 19850221; AU 3142984 A 19850207; AU 565774 B2 19870924; BR 8403870 A 19850709; CA 1237693 A 19880607; DE 3467191 D1 19871210; EP 0141056 A1 19850515; EP 0141056 B1 19871104; JP H0450399 B2 19920814; JP S6052596 A 19850325; US 4604341 A 19860805; ZA 845905 B 19850327

DOCDB simple family (application)

DE 3328049 A 19830803; AU 3142984 A 19840802; BR 8403870 A 19840802; CA 459732 A 19840726; DE 3467191 T 19840725; EP 84108775 A 19840725; JP 16301884 A 19840803; US 63458884 A 19840726; ZA 845905 A 19840731