Title (en)
TWO-STEP PROCESS FOR THE PRODUCTION OF ANODICALLY OXIDIZED FLAT MATERIALS OF ALUMINIUM, AND THEIR USE IN THE PREPARATION OF OFFSET PRINTING PLATES

Publication
EP 0121880 B1 19871014 (DE)

Application
EP 84103540 A 19840330

Priority
DE 3312497 A 19830407

Abstract (en)
[origin: ES8501810A1] Disclosed is a process for the production of a material in the form of a plate, a foil or a strip, from aluminum or an alloy thereof, which has been chemically, mechanically and/or electrochemically roughened. The process comprises a two-stage oxidation involving a first stage (a) which is performed in an aqueous electrolyte having from about 60 to 180 g/l of phosphoric acid, at a temperature of the electrolyte bath of about 47 DEG to 70 DEG C. and at a voltage of about 36 to 80 V and a second stage (b) which is performed in an aqueous electrolyte having from about 60 to 300 g/l of sulfuric acid, at a temperature of the electrolyte bath of about 30 DEG to 65 DEG C. and at a voltage of about 15 to 35 V. Also disclosed is an offset-printing plate, having a radiation-sensitive coating and a support material produced by the process described above.

IPC 1-7
C25D 11/12; B41N 3/00

IPC 8 full level
C25D 11/08 (2006.01); B41N 3/00 (2006.01); B41N 3/03 (2006.01); C25D 11/12 (2006.01); C25D 11/16 (2006.01); C25D 11/18 (2006.01); C25D 11/20 (2006.01); C25D 11/24 (2006.01)

CPC (source: EP US)
B41N 3/034 (2013.01 - EP US); C25D 11/12 (2013.01 - EP US); Y10S 205/921 (2013.01 - EP US)

Cited by
EP0368470A1; US10179956B2; US10458034B2; EP2474650A4; US9403293B2

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0121880 A1 19841017; EP 0121880 B1 19871014; AT E30254 T1 19871015; AU 2638784 A 19841011; AU 559228 B2 19870226; BR 8401621 A 19841113; CA 1228049 A 19871013; DE 3312497 A1 19841011; DE 3466784 D1 19871119; ES 531015 A0 19841201; ES 8501810 A1 19841201; FI 76840 B 19880831; FI 76840 C 19881212; FI 841360 A0 19840405; FI 841360 A 19841008; JP H0437159 B2 19920618; JP S59193298 A 19841101; US 4566952 A 19860128; ZA 842333 B 19841128

DOCDB simple family (application)
EP 84103540 A 19840330; AT 84103540 T 19840330; AU 2638784 A 19840403; BR 8401621 A 19840406; CA 450525 A 19840327; DE 3312497 A 19830407; DE 3466784 T 19840330; ES 531015 A 19840327; FI 841360 A 19840405; JP 6683584 A 19840405; US 59553884 A 19840330; ZA 842333 A 19840329