

Title (en)

METHOD AND DEVICE FOR CONTROLLING ELECTROCHEMICAL SURFACE PROCESSES

Title (de)

VERFAHREN UND VORRICHTUNG ZUM STEUERN VON ELEKTROCHEMISCHEN OBERFLÄCHENPROZESSEN

Title (fr)

PROCÉDÉ ET DISPOSITIF DE COMMANDE DE TRAITEMENTS ÉLECTROCHIMIQUES DE SURFACES

Publication

EP 2432921 A2 20120328 (DE)

Application

EP 10732271 A 20100518

Priority

- DE 2010000594 W 20100518
- DE 102009023768 A 20090522

Abstract (en)

[origin: WO2010133222A2] The invention relates to a method and a device for the electrochemical treatment of substrates in continuous installations or dip coating installations including the electric contacting of the material (1) on opposite edges by means of right-hand and left-hand contacts (3', 3''). According to the prior art, the material is treated to a different degree at a right angle to the direction of transport with the minimum being in the region of the center of the material. In order to achieve a completely even electroplating of the material, two electrolytic cells (8, 8'') which are preferably of the same size and have individual anodes (7', 7'') and rectifiers (6, 6'') are arranged at a right angle to the direction of transport as the right-hand and left-hand elements. The right-hand cell (8') is cathodically supplied with electroplating current via the left-hand contact (3'') and the left-hand cell (8'') via the right-hand contact (3'). The treatment of the material (1) can be controlled in a very precise manner, i.e. to give an even result, by differently set currents in the two cells (8', 8'') which currents act on the respective sides alternately in time, i.e. by simply controlling or regulating the current intensity of the rectifier (6', 6'') of the two sides.

IPC 8 full level

C25D 17/00 (2006.01); **C25D 7/06** (2006.01); **C25D 17/12** (2006.01); **C25D 21/12** (2006.01); **C25F 7/00** (2006.01)

CPC (source: EP KR)

C25D 7/0621 (2013.01 - EP); **C25D 7/0642** (2013.01 - EP); **C25D 7/0657** (2013.01 - EP); **C25D 7/0692** (2013.01 - EP);
C25D 17/00 (2013.01 - KR); **C25D 17/12** (2013.01 - KR); **C25D 21/12** (2013.01 - EP KR); **C25F 7/00** (2013.01 - KR)

Citation (search report)

See references of WO 2010133222A2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

DE 102009023768 A1 20101125; CN 102439202 A 20120502; EP 2432921 A2 20120328; JP 2012527525 A 20121108;
KR 20120026487 A 20120319; WO 2010133222 A2 20101125; WO 2010133222 A3 20110414

DOCDB simple family (application)

DE 102009023768 A 20090522; CN 201080022261 A 20100518; DE 2010000594 W 20100518; EP 10732271 A 20100518;
JP 2012511146 A 20100518; KR 20117026381 A 20100518