

Title (en)

METHOD FOR MONITORING AN ELECTROCHEMICAL TREATMENT PROCESS AND AN ELECTRODE ARRANGEMENT SUITED FOR CARRYING OUT THIS METHOD

Title (de)

VERFAHREN ZUM ÜBERWACHEN EINES ELEKTROCHEMISCHEN BEHANDLUNGSPROZESSES UND FÜR DIESES VERFAHREN GEEIGNETE ELEKTRODENANORDNUNG

Title (fr)

PROCEDE POUR SURVEILLER UN PROCESSUS DE TRAITEMENT ELECTROCHIMIQUE ET ENSEMBLE ELECTRODE CONVENANT A CE PROCEDE

Publication

EP 1819849 A1 20070822 (DE)

Application

EP 05823664 A 20051116

Priority

- EP 2005056005 W 20051116
- DE 102004056158 A 20041117

Abstract (en)

[origin: WO2006053877A1] The invention relates to a counter-electrode arrangement (14) that, e.g. can be used when coating and removing coatings from turbine blades, and to a method for the operation thereof. The counter-electrode arrangement comprises a reference electrode arrangement that is connected to the counter-electrode (15) in an electrically non-conductive manner via contact elements (17). During the treatment process, a balanced potential over the surface to be treated is created by adapting the reference electrode arrangement, which has individual electrodes (18), to a surface to be treated. In a method for operating the counter-electrode arrangement, a measuring current can be applied to this arrangement in a first step for creating a balanced potential. The individual electrodes (18) of the reference electrode arrangement can be separately contacted in order to determine the respective local potential on the surface of the component to be treated. The counter-electrodes can be adjusted so that a balanced potential prevails on the individual electrodes. During the subsequent treatment of the workpiece, the individual electrodes are interconnected in parallel and used as a reference electrode for maintaining a required treatment potential.

IPC 8 full level

C25D 17/12 (2006.01)

CPC (source: EP US)

B23H 11/006 (2013.01 - EP US); **C25D 17/10** (2013.01 - EP US); **C25D 17/12** (2013.01 - EP US); **C25D 21/12** (2013.01 - EP US); **C25F 5/00** (2013.01 - EP US); **C25F 7/00** (2013.01 - EP US)

Citation (search report)

See references of WO 2006053877A1

Designated contracting state (EPC)

CH DE GB IT LI

DOCDB simple family (publication)

DE 102004056158 B3 20060330; EP 1819849 A1 20070822; US 2007295614 A1 20071227; WO 2006053877 A1 20060526

DOCDB simple family (application)

DE 102004056158 A 20041117; EP 05823664 A 20051116; EP 2005056005 W 20051116; US 66733105 A 20051116