

Title (en)

METHOD AND DEVICE FOR THE REGULATION OF THE CONCENTRATION OF METAL IONS IN AN ELECTROLYTE AND USE THEREOF

Title (de)

VERFAHREN UND VORRICHTUNG ZUM REGULIEREN DER KONZENTRATION VON METALLIONEN IN EINER ELEKTROLYTFLÜSSIGKEIT
SOWIE ANWENDUNG DES VERFAHRENS UND VERWENDUNG DER VORRICHTUNG

Title (fr)

PROCEDE ET DISPOSITIF POUR REGULER LA CONCENTRATION D'IONS METALLIQUES DANS UN ELECTROLYTE, MISE EN OEUVRE
DUDIT PROCEDE ET UTILISATION DUDIT DISPOSITIF

Publication

EP 1264010 B1 20050601 (DE)

Application

EP 01915052 A 20010223

Priority

- DE 0100748 W 20010223
- DE 10013339 A 20000317

Abstract (en)

[origin: US2003000842A1] In order to regulate the metal ion concentration in an electrolyte fluid serving to electrolytically deposit metal and additionally containing substances of an electrochemically reversible redox system, it has been known in the art to conduct at least one portion of the electrolyte fluid through one auxiliary cell provided with one insoluble auxiliary anode and at least one auxiliary cathode, a current being conducted between them by applying a voltage. Accordingly, excess quantities of the oxidized substances of the redox system are reduced at the auxiliary cathode, the formation of ions of the metal to be deposited being reduced as a result thereof. Starting from this prior art, the present invention relates to using pieces of the metal to be deposited as an auxiliary cathode.

IPC 1-7

C25D 21/14

IPC 8 full level

C25D 17/10 (2006.01); **C25D 21/12** (2006.01); **C25D 21/14** (2006.01)

CPC (source: EP KR US)

C25D 17/10 (2013.01 - EP US); **C25D 21/12** (2013.01 - EP US); **C25D 21/14** (2013.01 - EP KR US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

US 2003000842 A1 20030102; **US 6899803 B2 20050531**; AT E296910 T1 20050615; AU 4227801 A 20010924; BR 0109167 A 20021126; BR 0109167 B1 20110614; CA 2391038 A1 20010920; CN 1263900 C 20060712; CN 1418265 A 20030514; DE 10013339 C1 20010613; DE 50106389 D1 20050707; DK 1264010 T3 20050829; EP 1264010 A1 20021211; EP 1264010 B1 20050601; ES 2242737 T3 20051116; HK 1048145 A1 20030321; HK 1048145 B 20050729; JP 2003527490 A 20030916; JP 4484414 B2 20100616; KR 100740817 B1 20070719; KR 20020084086 A 20021104; MX PA02008974 A 20030425; MY 127759 A 20061229; TW 557332 B 20031011; WO 0168953 A1 20010920

DOCDB simple family (application)

US 16979702 A 20020708; AT 01915052 T 20010223; AU 4227801 A 20010223; BR 0109167 A 20010223; CA 2391038 A 20010223; CN 01806700 A 20010223; DE 0100748 W 20010223; DE 10013339 A 20000317; DE 50106389 T 20010223; DK 01915052 T 20010223; EP 01915052 A 20010223; ES 01915052 T 20010223; HK 03100184 A 20030107; JP 2001567828 A 20010223; KR 20027008693 A 20020704; MX PA02008974 A 20010223; MY PI20011136 A 20010313; TW 90104321 A 20010226