

Title (en)

CATHODE FOR ELECTROLYTIC EVOLUTION OF HYDROGEN

Title (de)

KATHODE FÜR ELEKTROLYTISCHE EVOLUTION VON WASSERSTOFF

Title (fr)

CATHODE POUR ÉVOLUTION ÉLECTROLYTIQUE D'HYDROGÈNE

Publication

EP 2925909 A1 20151007 (EN)

Application

EP 13795193 A 20131111

Priority

- IT MI20122030 A 20121129
- EP 2013073490 W 20131111

Abstract (en)

[origin: WO2014082843A1] The invention relates to an electrode suitable for use as a cathode for hydrogen evolution in industrial electrolytic processes. The electrode comprises a metallic substrate, an internal catalytic layer containing rhodium and an external catalytic layer containing ruthenium.

IPC 8 full level

C25B 9/20 (2006.01); **C25B 9/23** (2021.01); **C25B 11/04** (2006.01)

CPC (source: EP US)

C25B 1/26 (2013.01 - US); **C25B 9/23** (2021.01 - EP US); **C25B 9/70** (2021.01 - US); **C25B 9/73** (2021.01 - EP US); **C25B 11/051** (2021.01 - US); **C25B 11/057** (2021.01 - US); **C25B 11/073** (2021.01 - US); **C25B 11/093** (2021.01 - EP US); **C25B 11/097** (2021.01 - EP US)

Citation (search report)

See references of WO 2014082843A1

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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2014082843 A1 20140605; AR 093390 A1 20150603; AU 2013351395 A1 20150409; AU 2013351395 B2 20170713; AU 2013351395 C1 20171214; BR 112015012177 A2 20170711; BR 112015012177 A8 20180911; CA 2885810 A1 20140605; CA 2885810 C 20200414; CL 2015001428 A1 20150731; CN 104769163 A 20150708; CN 104769163 B 20170419; DK 2925909 T3 20161219; EA 028211 B1 20171031; EA 201590751 A1 20150930; EP 2925909 A1 20151007; EP 2925909 B1 20160907; ES 2606306 T3 20170323; HU E032149 T2 20170828; IL 237869 A 20170731; IT MI20122030 A1 20140530; JP 2016502606 A 20160128; JP 6324402 B2 20180516; KR 20150089077 A 20150804; MX 2015006588 A 20150805; MX 361261 B 20181130; MY 183338 A 20210218; PE 20151011 A1 20150802; PL 2925909 T3 20170228; PT 2925909 T 20161101; SG 11201502482T A 20150528; TW 201420817 A 20140601; TW I592521 B 20170721; US 2015308004 A1 20151029; UY 35125 A 20140630; ZA 201502734 B 20161130

DOCDB simple family (application)

EP 2013073490 W 20131111; AR P130104077 A 20131107; AU 2013351395 A 20131111; BR 112015012177 A 20131111; CA 2885810 A 20131111; CL 2015001428 A 20150526; CN 201380057928 A 20131111; DK 13795193 T 20131111; EA 201590751 A 20131111; EP 13795193 A 20131111; ES 13795193 T 20131111; HU E13795193 A 20131111; IL 23786915 A 20150322; IT MI20122030 A 20121129; JP 2015544404 A 20131111; KR 20157017270 A 20131111; MX 2015006588 A 20131111; MY PI2015701244 A 20131111; PE 2015000683 A 20131111; PL 13795193 T 20131111; PT 13795193 T 20131111; SG 11201502482T A 20131111; TW 102139437 A 20131031; US 201314441646 A 20131111; UY 35125 A 20131107; ZA 201502734 A 20150422