

Title (en)
SYSTEMS AND METHODS USING ANODES

Title (de)
ANODEN VERWENDENDE SYSTEME UND VERFAHREN

Title (fr)
SYSTÈMES ET PROCÉDÉS UTILISANT DES ANODES

Publication
EP 2831313 B1 20170503 (EN)

Application
EP 13769321 A 20130313

Priority
• US 201261617390 P 20120329
• US 201213474598 A 20120517
• US 2013031064 W 20130313

Abstract (en)
[origin: WO2013148216A1] There are provided methods and systems for an electrochemical cell including an anode and a cathode where the anode is contacted with a metal ion that converts the metal ion from a lower oxidation state to a higher oxidation state. The metal ion in the higher oxidation state is reacted with hydrogen gas, an unsaturated hydrocarbon, and/or a saturated hydrocarbon to form products.

IPC 8 full level
H01M 2/14 (2006.01)

CPC (source: CN EP)
C25B 1/00 (2013.01 - CN); **C25B 1/02** (2013.01 - CN); **C25B 3/27** (2021.01 - CN); **C25B 9/00** (2013.01 - CN EP); **C25B 11/02** (2013.01 - EP); **C25B 15/08** (2013.01 - CN EP)

Citation (examination)
JP 2000199093 A 20000718 - EKOWAADO KK

Cited by
US2023109269A1; US12007322B2; US10556848B2; US10844496B2

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

DOCDB simple family (publication)
WO 2013148216 A1 20131003; CN 104271810 A 20150107; CN 104271810 B 20170503; CN 107254689 A 20171017;
EP 2831313 A1 20150204; EP 2831313 A4 20150610; EP 2831313 B1 20170503; EP 3219829 A1 20170920; JP 2015522706 A 20150806;
JP 2017075398 A 20170420; JP 6039054 B2 20161207

DOCDB simple family (application)
US 2013031064 W 20130313; CN 201380024643 A 20130313; CN 201710352177 A 20130313; EP 13769321 A 20130313;
EP 17150726 A 20130313; JP 2015503281 A 20130313; JP 2016196127 A 20161004