

Title (en)
PROCESS FOR THE PRODUCTION OF CHEMICALS

Title (de)
VERFAHREN ZUR HERSTELLUNG VON CHEMIKALIEN

Title (fr)
PROCÉDÉ DE PRODUCTION DE COMPOSÉS CHIMIQUES

Publication
EP 2373832 A1 20111012 (EN)

Application
EP 09832723 A 20091217

Priority
• AU 2009001645 W 20091217
• AU 2008906519 A 20081218

Abstract (en)
[origin: WO2010068994A1] A process for producing one or more chemical compounds comprising the steps of providing a bioelectrochemical system having an anode and a cathode separated by a membrane, the anode and the cathode being electrically connected to each other, causing oxidation to occur at the anode and causing reduction to occur at the cathode to thereby produce reducing equivalents at the cathode, providing the reducing equivalents to a culture of microorganisms, and providing carbon dioxide to the culture of microorganisms, whereby the microorganisms produce the one or more chemical compounds, and recovering the one or chemical compounds.

IPC 8 full level
C25B 3/25 (2021.01); **C02F 1/46** (2006.01); **C12M 1/42** (2006.01); **C12N 13/00** (2006.01); **C12P 1/00** (2006.01); **C12P 39/00** (2006.01); **C12P 41/00** (2006.01); **C25B 3/23** (2021.01); **H01M 8/06** (2006.01); **H01M 8/16** (2006.01)

CPC (source: EP US)
C02F 1/4618 (2013.01 - EP US); **C02F 3/005** (2013.01 - EP US); **C12M 25/08** (2013.01 - EP US); **C12M 35/02** (2013.01 - EP US); **C12P 7/02** (2013.01 - EP US); **C12P 7/40** (2013.01 - EP US); **C12P 7/625** (2013.01 - EP US); **C25B 3/00** (2013.01 - EP US); **H01M 8/0612** (2013.01 - EP US); **H01M 8/16** (2013.01 - EP US); **H01M 8/20** (2013.01 - EP US); **C02F 2001/4619** (2013.01 - EP US); **C02F 2201/46115** (2013.01 - EP US); **C02F 2201/4618** (2013.01 - EP US); **C02F 2201/4619** (2013.01 - EP US); **Y02E 60/50** (2013.01 - EP US); **Y02P 70/50** (2015.11 - EP US); **Y02W 10/37** (2015.05 - EP US); **Y02W 10/40** (2015.05 - EP US)

Citation (search report)
See references of WO 2010068994A1

Cited by
CN104108771A; US10450662B2

Designated contracting state (EPC)
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)
WO 2010068994 A1 20100624; AU 2009328649 A1 20110728; BR PI0923180 A2 20190924; CA 2747212 A1 20100624; CN 102282295 A 20111214; EP 2373832 A1 20111012; JP 2012512326 A 20120531; US 2011315560 A1 20111229

DOCDB simple family (application)
AU 2009001645 W 20091217; AU 2009328649 A 20091217; BR PI0923180 A 20091217; CA 2747212 A 20091217; CN 200980154511 A 20091217; EP 09832723 A 20091217; JP 2011541023 A 20091217; US 200913140947 A 20091217