

Title (en)
METHOD FOR PREPARING A CATALYTIC MATERIAL OF AN ELECTRODE FOR ELECTROCHEMICAL REDUCTION REACTIONS PREPARED BY ELECTROREDUCTION

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES KATALYTISCHEN MATERIALS EINER ELEKTRODE FÜR ELEKTROCHEMISCHE REDUKTIONSREAKTIONEN, HERGESTELLT DURCH ELEKTROREDUKTION

Title (fr)
PROCEDE DE PREPARATION D'UN MATERIAU CATALYTIQUE D'ELECTRODE POUR DES REACTIONS DE REDUCTION ELECTROCHIMIQUE PREPARE PAR ELECTROREDUCTION

Publication
EP 3887572 A1 20211006 (FR)

Application
EP 19806186 A 20191119

Priority
• FR 1872181 A 20181130
• EP 2019081705 W 20191119

Abstract (en)
[origin: WO2020109062A1] A method for preparing a catalytic material of an electrode for electrochemical reduction reactions, wherein said material comprises at least one active phase based on a group VIB metal and an electrically conductive support, which method comprises: a) a step of electrolysis of at least one aqueous and/or organic solution comprising at least one precursor of the active phase comprising at least one group VIB metal in order to obtain a solution comprising at least one precursor comprising at least one group VIB metal which has been partially reduced; b) a step of impregnation of said support with said solution obtained in step a) in order to obtain a catalytic material precursor; c) a step of drying said precursor obtained in step b) at a temperature below 250 °C, without subsequent calcination; d) a step of sulfurization of the catalytic material precursor obtained in step c) at a temperature of between 100 °C and 600 °C.

IPC 8 full level
C25B 1/04 (2021.01); **B01J 23/30** (2006.01); **B01J 23/881** (2006.01); **B01J 23/882** (2006.01); **B01J 23/883** (2006.01); **B01J 37/02** (2006.01); **B01J 37/20** (2006.01); **C25B 11/04** (2021.01); **H01M 4/90** (2006.01)

CPC (source: EP US)
B01J 37/0201 (2013.01 - US); **C25B 1/04** (2013.01 - EP US); **C25B 1/27** (2021.01 - US); **C25B 3/07** (2021.01 - US); **C25B 9/19** (2021.01 - US); **C25B 11/057** (2021.01 - EP); **C25B 11/065** (2021.01 - US); **C25B 11/077** (2021.01 - EP); **C25B 11/091** (2021.01 - EP US); **C25B 13/00** (2013.01 - US); **H01M 4/9041** (2013.01 - EP); **H01M 4/9075** (2013.01 - EP); **H01M 4/98** (2013.01 - EP); **H01M 8/0656** (2013.01 - US); **Y02E 60/36** (2013.01 - EP); **Y02E 60/50** (2013.01 - EP); **Y02P 20/133** (2015.11 - EP)

Designated contracting state (EPC)
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