

Title (en)

CARBON ELECTRODES HAVING IMPROVED ELECTROCATALYTIC ACTIVITY

Title (de)

KOHLENSTOFFELEKTRODEN MIT VERBESSERTER ELEKTROKATALYTISCHER AKTIVITÄT

Title (fr)

ÉLECTRODES DE CARBONE DOUÉES D'UNE ACTIVITÉ ÉLECTROCATALYTIQUE AMÉLIORÉE

Publication

EP 4128394 A1 20230208 (EN)

Application

EP 21716238 A 20210401

Priority

- IT 202000007102 A 20200403
- IB 2021052733 W 20210401

Abstract (en)

[origin: WO2021198974A1] The present invention relates to new hierarchical carbon electrodes having improved electrocatalytic activity, useful as electrodes for electrocatalytic devices, such as fuel cells, metal-ion batteries, supercapacitors, water splitting systems and in particular redox flow batteries; to the process for the production thereof and to the electrocatalytic devices that comprise them.

IPC 8 full level

H01M 4/36 (2006.01); **H01G 11/00** (2006.01); **H01M 4/86** (2006.01); **H01M 4/88** (2006.01); **H01M 4/96** (2006.01); **H01M 8/0213** (2006.01); **H01M 8/18** (2006.01)

CPC (source: EP)

H01G 11/34 (2013.01); **H01G 11/86** (2013.01); **H01M 4/8657** (2013.01); **H01M 4/8668** (2013.01); **H01M 4/8673** (2013.01); **H01M 4/8878** (2013.01); **H01M 4/96** (2013.01); **H01M 8/0213** (2013.01); **H01M 8/18** (2013.01); **H01M 8/188** (2013.01); **Y02E 60/13** (2013.01); **Y02E 60/50** (2013.01); **Y02P 70/50** (2015.11)

Citation (search report)

See references of WO 2021198974A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2021198974 A1 20211007; EP 4128394 A1 20230208; IT 202000007102 A1 20211003

DOCDB simple family (application)

IB 2021052733 W 20210401; EP 21716238 A 20210401; IT 202000007102 A 20200403