

Title (en)

GAS DIFFUSION ELECTRODE, AN ELECTROLYSIS SYSTEM, AND A METHOD FOR OPERATING AN ELECTROLYSIS SYSTEM

Title (de)

GASDIFFUSIONSELEKTRODE, EINE ELEKTROLYSEANLAGE SOWIE EIN VERFAHREN ZUM BETREIBEN EINER ELEKTROLYSEANLAGE

Title (fr)

ÉLECTRODE DE DIFFUSION GAZEUSE, INSTALLATION D'ÉLECTROLYSE ET PROCÉDÉ DE FONCTIONNEMENT D'UNE INSTALLATION D'ÉLECTROLYSE

Publication

EP 3728698 B1 20211201 (DE)

Application

EP 19714106 A 20190308

Priority

- DE 102018204890 A 20180329
- DE 102018205571 A 20180412
- EP 2019055839 W 20190308

Abstract (en)

[origin: WO2019185328A1] The invention relates to a gas diffusion electrode (2) having at least two layers (4, 6), of which a first layer (4) comprises an electrically conductive fabric (8), which is embedded at least in part in a hydrophobically acting polymer matrix (10), and a second layer (6) has an open porosity (12) which comprises catalytically acting particles (9) and has a thickness between 1 µm and 50 µm.

IPC 8 full level

C25B 1/23 (2021.01); **C25B 3/25** (2021.01); **C25B 3/26** (2021.01); **C25B 11/032** (2021.01); **C25B 11/069** (2021.01); **C25B 11/081** (2021.01)

CPC (source: EP US)

C25B 1/00 (2013.01 - US); **C25B 1/23** (2021.01 - EP); **C25B 3/26** (2021.01 - EP); **C25B 9/17** (2021.01 - US); **C25B 11/031** (2021.01 - US); **C25B 11/032** (2021.01 - EP); **C25B 11/051** (2021.01 - US); **C25B 11/069** (2021.01 - EP US); **C25B 11/081** (2021.01 - EP)

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)

DE 102018205571 A1 20191002; DK 3728698 T3 20220207; EP 3728698 A1 20201028; EP 3728698 B1 20211201; ES 2908010 T3 20220427; PL 3728698 T3 20220404; US 2021002776 A1 20210107; WO 2019185328 A1 20191003

DOCDB simple family (application)

DE 102018205571 A 20180412; DK 19714106 T 20190308; EP 19714106 A 20190308; EP 2019055839 W 20190308; ES 19714106 T 20190308; PL 19714106 T 20190308; US 201916980954 A 20190308