

Title (en)

GAS DIFFUSION ELECTRODE-EQUIPPED ION-EXCHANGE MEMBRANE ELECTROLYTIC CELL

Title (de)

MIT EINER GASDIFFUSIONSELEKTRODE UND EINER IONENAUSTAUSCHMEMBRAN AUSGESTATTETE ELEKTROLYSEZELLE

Title (fr)

CELLULE ÉLECTROLYTIQUE À MEMBRANE À ÉCHANGE D'IONS ÉQUIPÉE D'ÉLECTRODE À DIFFUSION GAZEUSE

Publication

EP 2436804 A4 20150527 (EN)

Application

EP 10780245 A 20100524

Priority

- JP 2010003470 W 20100524
- JP 2009126622 A 20090526

Abstract (en)

[origin: EP2436804A1] Provided is a gas diffusion electrode equipped ion exchange membrane electrolyzer including an anode, an ion-exchange membrane, and a cathode chamber in which a gas diffusion electrode is disposed, wherein in a cathode gas chamber formed between a back plate of the cathode chamber and one side of the gas diffusion electrode opposite to the electrolytic surface, a gas-permeable elastic member is disposed between the gas diffusion electrode and the back plate, and the elastic member forms a conductive connection between the gas diffusion electrode and the back plate by making contact with corrosion-resistant conductive layers formed on the surfaces of a plurality of conductive members which are joined to the back plate.

IPC 8 full level

C25B 9/19 (2021.01); **C25B 9/23** (2021.01)

CPC (source: EP US)

C25B 9/19 (2021.01 - EP US); **C25B 9/65** (2021.01 - EP US)

Citation (search report)

- [X] WO 2007080193 A2 20070719 - UHDENORA SPA [IT], et al
- [A] US 2004245104 A1 20041209 - AIKAWA HIROAKI [JP], et al
- See references of WO 2010137284A1

Cited by

WO2021110457A1; EP2957659A1; US10294572B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 2436804 A1 20120404; **EP 2436804 A4 20150527**; CN 102459708 A 20120516; JP 5785492 B2 20150930; JP WO2010137284 A1 20121112; US 2012125782 A1 20120524; WO 2010137284 A1 20101202

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EP 10780245 A 20100524; CN 201080033330 A 20100524; JP 2010003470 W 20100524; JP 2011515878 A 20100524; US 201013322492 A 20100524