

Title (en)

GAS DIFFUSION ELECTRODE FOR REDUCING CARBON DIOXIDE

Title (de)

GASDIFFUSIONSELEKTRODE ZUR REDUKTION VON KOHLENDIOXID

Title (fr)

ÉLECTRODE À DIFFUSION DE GAZ POUR LA RÉDUCTION DU DIOXYDE DE CARBONE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2018234322A1] The invention relates to a gas diffusion electrode for reducing carbon dioxide, having a special catalyst morphology (silver in the form of agglomerated nanoparticles having a BET surface area of at least 2 m²/g), and to an electrolysis device. The gas diffusion electrode comprises at least one carrier and a porous coating on the basis of an electrochemically active porous silver catalyst and a hydrophobic material. The invention further relates to a production method for the gas diffusion electrode and to the use thereof as a carbon dioxide GDE in e.g. chlorine electrolysis.

IPC 8 full level

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Citation (search report)

See references of WO 2018234322A1

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