Title (en)

METHOD, USE AND ELECTROLYSIS CELL COMPRISING GAS DIFFUSION ELECTRODE FOR REDUCING CARBON DIOXIDE

Title (de)

VERFAHREN, VERWENDUNG UND ELEKTROLYSEZELLE MIT GASDIFFUSIONSELEKTRODE ZUR REDUKTION VON KOHLENDIOXID

Title (fr)

PROCÉDÉ, UTILISATION ET CELLULE ÉLECTROLYTIQUE DOTÉE D'UNE ÉLECTRODE À DIFFUSION DE GAZ DESTINÉE À RÉDUIRE L'OXYDE D'AZOTE

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Application

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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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