

Title (en)

METHOD AND ELECTROLYSIS DEVICE FOR THE PRODUCTION OF CHLORINE, CARBON MONOXIDE AND OPTIONALLY HYDROGEN

Title (de)

VERFAHREN UND ELEKTROLYSEVORRICHTUNG ZUR HERSTELLUNG VON CHLOR, KOHLENMONOXID UND GEGEBENENFALLS WASSERSTOFF

Title (fr)

PROCÉDÉ ET DISPOSITIF D'ÉLECTROLYSE POUR LA PRODUCTION DE CHLORE, DE MONOXYDE DE CARBONE ET ÉVENTUELLEMENT D'HYDROGÈNE

Publication

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Application

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Abstract (en)

[origin: WO2021069470A1] The invention relates to a method and an electrolysis device for the production of chlorine, carbon monoxide and optionally hydrogen via the electrochemical conversion of carbon dioxide and alkali chloride solution, wherein the carbon dioxide from a carbon dioxide gas source (55) is electrochemically reduced at a gas diffusion electrode, designed as a cathode (11), in an aqueous alkali-chloride-containing solution as the catholyte (17), and chlorine is simultaneously anodically generated from an aqueous alkali-chloride-containing solution as the anolyte (15a).

IPC 8 full level

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