

Title (en)

ARRANGEMENT FOR THE ELECTROLYSIS OF CARBON DIOXIDE

Title (de)

ANORDNUNG FÜR DIE KOHLENDIOXID-ELEKTROLYSE

Title (fr)

AGENCEMENT POUR L'ÉLECTROLYSE DE DIOXYDE DE CARBONE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2018001636A1] The invention relates to an arrangement for the electrolysis of carbon dioxide, comprising an electrolytic cell with an anode and a cathode, the anode and cathode being connected to a voltage supply, the cathode being a gas diffusion electrode and a gas chamber being connected to a first side of the cathode and a cathode chamber being connected to a second side of the cathode, also comprising an electrolytic circuit which is connected to the electrolytic cell, and a gas supply for supplying carbon dioxide-containing gas into the gas chamber, characterised in that the gas chamber comprises an outlet for the electrolyte, carbon dioxide and product gases of the electrolysis, the outlet being connected to the electrolytic circuit by a throttle which is designed to produce a definable pressure difference between the gas chamber and cathode chamber when a mixture of product gases and liquid electrolytes flow through.

IPC 8 full level

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