

Title (en)

MEMBRANE ELECTROLYTIC CELL WITH ACTIVE GAS/LIQUID SEPARATION

Title (de)

MEMBRAN-ELEKTROLYSEZELLE MIT AKTIVER GAS-/FLÜSSIGKEITSTRENNUNG

Title (fr)

CELLULE D'ELECTROLYSE A MEMBRANE AVEC SEPARATION GAZ/LIQUIDE ACTIVE

Publication

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Application

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Abstract (en)

[origin: US6596136B1] The invention relates to an electrochemical half cell (1) which consists of at least one membrane (4), an electrode (3) as anode or cathode which optionally produces gas, optionally an outlet (8; 16) for the gas and a support structure (12) linking the electrode which optionally produces gas with the back wall (15) of the half cell. The support structure (12) divides the interior (13) of the half cell (1) into vertically arranged channels (5, 9). The electrolyte (14) flows upwards in the electrode channels (9) facing the electrode (3) and flows downwards in the channels (5) facing away from the electrode (3). The electrode channels (9) and the channels (5) facing away from the electrode (3) are interlinked at their upper and lower ends.

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