

Title (en)
ELECTROCHEMICAL CELL FOR ELECTROLYSERS WITH STAND-ALONE ELEMENT TECHNOLOGY

Title (de)
ELEKTROCHEMISCHE ZELLE FÜR ELEKTROLYSEURE MIT EINZELELEMENTTECHNIK

Title (fr)
CELLULE ELECTROCHIMIQUE POUR ELECTROLYSEURS CON UE SELON LA TECHNIQUE DES ELEMENTS INDIVIDUELS

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Abstract (en)
[origin: WO0140549A1] The invention relates to an electrochemical cell for membrane electrolysis procedures for electrolyzers with stand-alone element technology. Said cell consists of at least two half-shells (8, 10), which surround an anolyte chamber (16) and a cathode chamber (22) between which a membrane (5) is situated, and an anode (6), which is situated in the anolyte chamber (16). The cathode chamber (22) is provided with an oxygen consuming cathode (4) with several superposed pressure-compensated gas pockets (15), a catholyte gap (14) and optionally, a back chamber (19). Electroconductive support elements (7) in the anolyte chamber (16) and support elements (3, 2, 1) in the cathode chamber (22) are provided in identical positions opposite each other.

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