

Title (en)
ELECTROCHEMICAL HALF CELL

Title (de)
ELEKTROCHEMISCHE HALBZELLE

Title (fr)
DEMI-CELLULE ELECTROCHIMIQUE

Publication
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Application
EP 02785267 A 20021022

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Abstract (en)
[origin: WO03035939A2] An electrochemical half cell, particularly suitable for the production of chlorine from an aqueous solution of an alkaline chloride, comprises an electrode chamber (10) for electrolyte. Several gas pockets (20, 22) for gas are also provided. A gas diffusion electrode (36) separates the gas pockets (20, 22) from the electrode chamber (10). A connecting channel (26) is also provided, by means of which the two gas pockets (20, 22) are connected to each other. Gas in the lower gas pocket (20) can flow into the connecting channel (26) through an outlet opening (28). Said gas climbs therein in the direction of the arrow (46) and arrives in a second gas pocket (22), lying thereabove, through an inlet opening (30). According to the invention, a non-return element (40) is arranged in the connecting channel (26) to avoid ingress of electrolyte (42) into the gas pocket (22).

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