

Title (en)

Cell and method of operating a liquid-gas electrochemical cell.

Title (de)

Zelle und Verfahren zum Betrieb einer elektrochemischen Zelle vom Typ flüssig-gasförmig.

Title (fr)

Cellule et procédé de conduite d'une cellule électrochimique du type liquide-gaz.

Publication

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Application

EP 89309465 A 19890918

Priority

US 24622688 A 19880919

Abstract (en)

An electrochemical cell having improved current efficiency and a method for electrochemically reacting a liquid electrolyte with a gas in an electrochemical cell. The cell has at least two electrodes separated by a cell separator wherein at least one of said electrodes is a porous, self-draining, gas diffusion electrode. In one embodiment of the invention, an electrolyte is flowed through said cell separator into a porous, self-draining electrode and simultaneously the electrode is fed with a mixture of a reactive gas and water or an electrolyte. In another embodiment of the invention in which the cell separator is an ion exchange permselective membrane, a mixture of a reactive gas and an electrolyte are fed to the porous, self-draining electrode. Preferably said porous, self-draining electrode is a cathode.

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CPC (source: EP)

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Cited by

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