

Title (en)

ELECTROLYSIS CELL WITH GAS DIFFUSION ELECTRODE OPERATING AT CONTROLLED PRESSURE

Title (de)

ELEKTROLYSEZELLE MIT UNTER KONTROLLIERTEM DRUCK GESTEUERTER GASDIFFUSIONSELEKTRODE

Title (fr)

CELLULE D'ELECTROLYSE A ELECTRODE DE DIFFUSION DE GAZ FONCTIONNANT A UNE PRESSION REGULEE

Publication

**EP 1362133 B1 20110727 (EN)**

Application

**EP 02701293 A 20020222**

Priority

- EP 0201910 W 20020222
- IT MI20010362 A 20010223

Abstract (en)

[origin: WO02068720A1] Electrolysis cell containing a liquid electrolyte and at least a gas diffusion electrode (9) with a surface in contact with the liquid electrolyte (10) and the opposite surface connected to at least two gas chambers (13), wherein said chambers are provided with rotameters (14) or equivalent devices and the connection between two subsequent chambers is provided by said rotameters or equivalent devices. Said design is characterized by the fact that it maintains a constant pressure in the chambers also with strong variations of the gas flow-rate. The chambers are further provided with at least an element (15) for discharging the liquid accumulated therein, which may comprise a bundle of hydrophilic fibers.

IPC 8 full level

**C25B 9/19** (2021.01); **C25B 15/08** (2006.01)

CPC (source: EP)

**C25B 9/19** (2021.01); **C25B 15/08** (2013.01)

Cited by

DE102017219766A1; US2015337443A1; US2016230291A1; US2017073823A1; US9957623B2; US9828313B2; US10556848B2; US9957621B2; US10619254B2; US10590054B2; US10807927B2; US10266954B2; US10844496B2

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