

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

**EP 1133587 B1 20040114 (DE)**

Application

**EP 99953890 A 19991020**

Priority

- DE 19850071 A 19981030
- EP 9907949 W 19991020

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.

IPC 1-7

**C25B 9/00**; **C25B 15/08**

IPC 8 full level

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

CPC (source: EP KR US)

**C25B 9/19** (2021.01 - EP KR US); **C25B 9/73** (2021.01 - EP KR US); **C25B 15/02** (2013.01 - KR); **C25B 15/08** (2013.01 - EP KR US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**US 6596136 B1 20030722**; AR 018966 A1 20011212; AT E257868 T1 20040115; AU 1041100 A 20000522; AU 763013 B2 20030710; BR 9914956 A 20010724; CA 2348394 A1 20000511; CN 1208501 C 20050629; CN 1324413 A 20011128; CZ 20011503 A3 20011212; DE 19850071 A1 20000504; DE 59908322 D1 20040219; EP 1133587 A1 20010919; EP 1133587 B1 20040114; ES 2211188 T3 20040701; HU P0104430 A2 20020328; HU P0104430 A3 20020528; ID 29184 A 20010809; JP 2002528648 A 20020903; KR 100607632 B1 20060802; KR 20010080352 A 20010822; NO 20012056 D0 20010426; NO 20012056 L 20010426; PL 190638 B1 20051230; PL 347424 A1 20020408; PT 1133587 E 20040531; TW 466279 B 20011201; WO 0026442 A1 20000511

DOCDB simple family (application)

**US 83049201 A 20010427**; AR P990105381 A 19991025; AT 99953890 T 19991020; AU 1041100 A 19991020; BR 9914956 A 19991020; CA 2348394 A 19991020; CN 99812595 A 19991020; CZ 20011503 A 19991020; DE 19850071 A 19981030; DE 59908322 T 19991020; EP 9907949 W 19991020; EP 99953890 A 19991020; ES 99953890 T 19991020; HU P0104430 A 19991020; ID 20010944 A 19991020; JP 2000579809 A 19991020; KR 20017005402 A 20010428; NO 20012056 A 20010426; PL 34742499 A 19991020; PT 99953890 T 19991020; TW 88118731 A 19991029