

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

Publication  
**EP 1242653 B1 20050406 (DE)**

Application  
**EP 00976055 A 20001120**

Priority  
• DE 19959079 A 19991201  
• EP 0011531 W 20001120

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.

IPC 1-7  
**C25B 9/00**

IPC 8 full level  
**C25B 9/19** (2021.01)

CPC (source: EP KR US)  
**C25B 1/04** (2013.01 - KR); **C25B 9/19** (2021.01 - EP KR US); **C25B 9/63** (2021.01 - KR); **C25B 9/70** (2021.01 - EP KR US); **C25B 15/02** (2013.01 - KR)

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**WO 0140549 A1 20010607**; AT E292695 T1 20050415; AU 1396001 A 20010612; AU 775645 B2 20040812; BR 0015952 A 20020806; CA 2394835 A1 20010607; CN 1258619 C 20060607; CN 1408032 A 20030402; CZ 20021886 A3 20021016; DE 19959079 A1 20010607; DE 50010013 D1 20050512; EP 1242653 A1 20020925; EP 1242653 B1 20050406; ES 2240198 T3 20051016; HK 1054412 A1 20031128; HU P0203519 A2 20030328; HU P0203519 A3 20030428; JP 2003515677 A 20030507; KR 20020059830 A 20020713; MX PA02005480 A 20021213; NO 20022575 D0 20020530; NO 20022575 L 20020530; PL 355720 A1 20040517; PT 1242653 E 20050831; RU 2002118331 A 20040327; US 6984296 B1 20060110; YU 39402 A 20041231; ZA 200203202 B 20030423

DOCDB simple family (application)  
**EP 0011531 W 20001120**; AT 00976055 T 20001120; AU 1396001 A 20001120; BR 0015952 A 20001120; CA 2394835 A 20001120; CN 00816662 A 20001120; CZ 20021886 A 20001120; DE 19959079 A 19991201; DE 50010013 T 20001120; EP 00976055 A 20001120; ES 00976055 T 20001120; HK 03106737 A 20030919; HU P0203519 A 20001120; JP 2001542612 A 20001120; KR 20027006974 A 20020531; MX PA02005480 A 20001120; NO 20022575 A 20020530; PL 35572000 A 20001120; PT 00976055 T 20001120; RU 2002118331 A 20001120; US 14813802 A 20020528; YU P39402 A 20001120; ZA 200203202 A 20020423