

Title (en)
DIMENSIONALLY STABLE GAS DIFFUSION ELECTRODE

Title (de)
DIMENSIONSSTABILE GASDIFFUSIONSELEKTRODE

Title (fr)
ELECTRODE DE DIFFUSION DE GAZ A STABILITE DIMENSIONNELLE

Publication
EP 1293005 A1 20030319 (DE)

Application
EP 01936378 A 20010521

Priority

- DE 10027339 A 20000602
- EP 0105780 W 20010521

Abstract (en)
[origin: WO0193353A1] The invention relates to a dimensionally stable gas diffusion electrode and to a method for producing the same. The inventive electrode comprises at least one electroconducting catalyst substrate for receiving a coating mass that contains a catalyst material, and one electrical connection. The catalyst substrate (4; 11) may be a tissue, a nonwoven, a foam, a sintered metal body or felt from a electroconducting material, an expanded metal plate or a metal plate that is provided with a multitude of openings (2, 8), on which the coating material (5) that contains the catalyst material is applied. The catalyst substrate, if not sufficiently rigid itself, is firmly linked with a gas-permeable, alkali-resistant metal base plate (1; 7), especially produced from nickel or one of its alloys in a mechanical and electroconducting manner.

IPC 1-7
H01M 4/86; H01M 4/88; H01M 8/02

IPC 8 full level
C25B 11/08 (2006.01); **H01M 4/86** (2006.01); **H01M 4/88** (2006.01); **C25B 11/03** (2006.01); **H01M 4/90** (2006.01); **H01M 4/92** (2006.01); **H01M 8/0232** (2016.01); **H01M 8/0234** (2016.01); **H01M 8/0245** (2016.01); **H01M 8/026** (2016.01)

CPC (source: EP KR US)
C25B 11/031 (2021.01 - EP US); **H01M 4/86** (2013.01 - KR); **H01M 4/8605** (2013.01 - EP US); **H01M 4/8807** (2013.01 - EP US); **H01M 4/8828** (2013.01 - EP US); **H01M 4/8882** (2013.01 - EP US); **H01M 4/8885** (2013.01 - EP US); **H01M 4/8896** (2013.01 - EP US); **H01M 8/0232** (2013.01 - EP US); **H01M 8/0234** (2013.01 - EP US); **H01M 8/0245** (2013.01 - EP US); **H01M 8/026** (2013.01 - EP US); **Y02E 60/50** (2013.01 - EP)

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 0193353 A1 20011206; AR 028638 A1 20030521; AU 6230301 A 20011211; BR 0111268 A 20030610; CN 1240155 C 20060201; CN 1443378 A 20030917; CZ 20023946 A3 20030514; DE 10027339 A1 20011206; EP 1293005 A1 20030319; HU P0302063 A2 20030929; JP 2003535449 A 20031125; KR 20030007825 A 20030123; MX PA02011798 A 20030514; PL 361832 A1 20041004; RU 2002135624 A 20040427; TW 533618 B 20030521; US 2003162081 A1 20030828

DOCDB simple family (application)
EP 0105780 W 20010521; AR P010102536 A 20010528; AU 6230301 A 20010521; BR 0111268 A 20010521; CN 01810256 A 20010521; CZ 20023946 A 20010521; DE 10027339 A 20000602; EP 01936378 A 20010521; HU P0302063 A 20010521; JP 2002500470 A 20010521; KR 20027016367 A 20021130; MX PA02011798 A 20010521; PL 36183201 A 20010521; RU 2002135624 A 20010521; TW 90113282 A 20010601; US 29635902 A 20021125