

Title (en)
SOLID ELECTROLYTE FUEL CELL PROVIDED WITH A TIGHT STRUCTURE

Title (de)
FESTELEKTROLYT-BRENNSTOFFZELLE MIT EINER STRAMMEN STRUKTUR

Title (fr)
PILE COMBUSTIBLE ELECTROLYTE SOLIDE STRUCTURE ETANCHE

Publication
EP 1728289 A2 20061206 (FR)

Application
EP 05739625 A 20050318

Priority
• FR 2005050172 W 20050318
• FR 0450568 A 20040322

Abstract (en)
[origin: WO2005093887A2] In order to improve a tightness between different cells (5) forming a planar geometry fuel cell (1), low-porous or nonporous areas (11) are arranged in an electrode layer (10) around a gas supply connection (2). The formation of an interlocking connection (18, 22) between a bipolar plate (20) and a three-layer ceramic element (10, 20) which forms a base cell (5) and makes it possible to prevent a gas mixtures is also disclosed.

IPC 8 full level
H01M 4/86 (2006.01); **H01M 4/88** (2006.01); **H01M 8/02** (2006.01); **H01M 8/10** (2006.01); **H01M 8/12** (2006.01); **H01M 8/24** (2006.01)

CPC (source: EP US)
H01M 4/861 (2013.01 - EP US); **H01M 4/8626** (2013.01 - EP US); **H01M 4/8885** (2013.01 - EP US); **H01M 2008/1293** (2013.01 - EP US); **Y02E 60/50** (2013.01 - EP)

Citation (search report)
See references of WO 2005093887A2

Citation (examination)
• US 4770955 A 19880913 - RUHL ROBERT C [US]
• EP 1199760 A1 20020424 - CENTRAL RES INST ELECT [JP]

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR LV MK YU

DOCDB simple family (publication)
FR 2867903 A1 20050923; FR 2867903 B1 20081003; CA 2560761 A1 20051006; CA 2560761 C 20121002; CN 1930707 A 20070314; EP 1728289 A2 20061206; JP 2007531213 A 20071101; JP 5128934 B2 20130123; TW 200537732 A 20051116; US 2007148522 A1 20070628; US 8808940 B2 20140819; WO 2005093887 A2 20051006; WO 2005093887 A3 20060615

DOCDB simple family (application)
FR 0450568 A 20040322; CA 2560761 A 20050318; CN 200580008288 A 20050318; EP 05739625 A 20050318; FR 2005050172 W 20050318; JP 2007504453 A 20050318; TW 94108579 A 20050321; US 59318705 A 20050318