

Title (en)
DEVICE FOR GENERATING ELECTRICITY USING A FUEL CELL

Title (de)
VORRICHTUNG ZUR ERZEUGUNG VON ELEKTRIZITÄT MITHILFE EINER BRENNSTOFFZELLE

Title (fr)
DISPOSITIF DE PRODUCTION D'ELECTRICITE PAR PILE A COMBUSTIBLE

Publication
EP 2649663 A1 20131016 (FR)

Application
EP 11802308 A 20111205

Priority
• FR 1060097 A 20101206
• EP 2011071700 W 20111205

Abstract (en)
[origin: WO2012076445A1] The invention relates to a device for generating electricity using a fuel cell, including a means (1) for generating fuel and comburent gases, and at least one unit (2, 3, 4, 5, 6, 7, 9, 10) for packaging either the fuel or comburent gas. The packaging unit includes at least one means (3) for drying before the pressurized storage of the gas, at least one means (5) for the pressurized storage of the gas, and at least one means for humidifying the gas after removing same from storage. According to the invention, the drying means (3) is configured such that, in a fuel-cell operating mode, said means operates at a temperature at least equal to 60°C, and at least partially provides the humidification of the gas passing therethrough in the fuel-cell operating mode, by means of at least partially restoring the water extracted from the gas passing therethrough in a gas-production/storage operating mode.

IPC 8 full level
H01M 8/04 (2006.01); **H01M 8/18** (2006.01)

CPC (source: EP US)
B60L 50/72 (2019.01 - EP US); **B60L 58/33** (2019.01 - EP US); **H01M 8/04029** (2013.01 - EP US); **H01M 8/04126** (2013.01 - EP US); **H01M 8/04171** (2013.01 - EP US); **H01M 8/186** (2013.01 - EP US); **H01M 8/04141** (2013.01 - EP US); **H01M 8/04164** (2013.01 - EP US); **H01M 2008/1095** (2013.01 - EP US); **Y02E 60/36** (2013.01 - EP US); **Y02E 60/50** (2013.01 - EP US); **Y02P 70/50** (2015.11 - EP US); **Y02P 90/60** (2015.11 - US); **Y02T 90/40** (2013.01 - EP US)

Citation (search report)
See references of WO 2012076445A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
FR 2968462 A1 20120608; **FR 2968462 B1 20130607**; CN 103250292 A 20130814; CN 103250292 B 20160302; EP 2649663 A1 20131016; JP 2014506375 A 20140313; JP 6022474 B2 20161109; US 2013302706 A1 20131114; WO 2012076445 A1 20120614

DOCDB simple family (application)
FR 1060097 A 20101206; CN 201180058693 A 20111205; EP 11802308 A 20111205; EP 2011071700 W 20111205; JP 2013542486 A 20111205; US 201113989005 A 20111205