

Title (en)  
FUEL CELL SYSTEM OPERATED BY COMPRESSED AIR

Title (de)  
BRENNSTOFFZELLENSYSTEM MIT DRUCKLUFTBETRIEB

Title (fr)  
SYSTEME DE PILE A COMBUSTIBLE A AIR COMPRIME

Publication  
**EP 1846971 A1 20071024 (DE)**

Application  
**EP 06705861 A 20060127**

Priority  
• DE 2006000130 W 20060127  
• DE 102005004426 A 20050131

Abstract (en)  
[origin: WO2006079331A1] The invention relates to a fuel cell system wherein at least one fuel cell (8) is fed with a compressed oxidation gas at least intermittently and/or at least partially. The invention also relates to a method for starting a fuel cell system, said method comprising the following steps: a valve (6) connecting at least one fuel cell (8) to a compressed gas source (1) supplying a compressed oxidation gas is opened; fuel is supplied to the at least one fuel cell (8); it is checked that the fuel cell system has reached an operating point at which sufficient energy for the autonomous operation of the fuel cell system and for the consumers to be supplied is generated; and a discreet or gradual switch is carried out from the supply of a compressed oxidation gas stored in the compressed gas accumulator (1) to the ambient air supplied by a fan (5). The invention also relates to the use of said fuel cell system in an emergency power supply.

IPC 8 full level  
**H01M 8/04** (2006.01); **H01M 8/00** (2006.01); **H02J 9/06** (2006.01)

CPC (source: EP US)  
**H01M 8/04225** (2016.02 - EP US); **H01M 8/04268** (2013.01 - EP US); **H01M 8/04302** (2016.02 - EP US); **H01M 2250/10** (2013.01 - EP US); **Y02B 90/10** (2013.01 - EP US); **Y02E 60/50** (2013.01 - EP)

Citation (search report)  
See references of WO 2006079331A1

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 LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2006079331 A1 20060803**; DE 102005004426 A1 20060810; EP 1846971 A1 20071024; US 2010035096 A1 20100211

DOCDB simple family (application)  
**DE 2006000130 W 20060127**; DE 102005004426 A 20050131; EP 06705861 A 20060127; US 88339406 A 20060127