Title (en)
FUEL CELL SYSTEM WITH REFORMER AND REHEATER

Title (de)
BRENNSTOFFZELLENSYSTEM MIT REFORMER UND NACHBRENNER

Title (fr)
SYSTÈME DE PILE À COMBUSTIBLE À REFORMEUR ET UNITÉ DE POSTCOMBUSTION

Publication
EP 2041823 A1 20090401 (DE)

Application
EP 07764398 A 20070621

Priority
• DE 2007001100 W 20070621
• DE 102006032470 A 20060713

Abstract (en)
[origin: CA2657505A1] The invention relates to a fuel cell system (10) comprising a reformer (1 2) with a burner unit (48) for converting fuel with oxidant in an exothermic oxidation reaction in order to form a product gas, which can be mixed with additional fuel downstream of the burner unit (48), wherein the resultant ga s mixture can be converted in the reformer (12) to give reformate; a fuel ce ll stack (26), to which the reformate can be supplied; and a reheater (36), to which substances which have been converted in the fuel cell stack (26) ca n be supplied, with a burner unit (54) for converting fuel with oxidant in a n exothermic oxidation reaction. The invention provides that the burner unit (48) of the reformer (12) has the same construction as the burner unit (54) of the reheater (36). Furthermore, the invention relates to a motor vehicle with such a fuel cell system (10).

IPC 8 full level
H01M 8/06 (2006.01)

CPC (source: EP KR US)
B60L 50/50 (2019.02 - KR); **H01M 8/04** (2013.01 - KR); **H01M 8/06** (2013.01 - KR); **H01M 8/0631** (2013.01 - EP US); **H01M 8/0662** (2013.01 - EP US); Y02E 60/50 (2013.01 - EP)

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
DE 102006032470 A1 20080117; **DE 102006032470 B4 20080710**; AU 2007272141 A1 20080117; BR PI0714203 A2 20121225; CA 2657505 A1 20080117; CN 101490888 A 20090722; EA 013775 B1 20100630; EA 200970038 A1 20090428; EP 2041823 A1 20090401; JP 2009543304 A 20091203; KR 20090031406 A 20090325; US 2011311892 A1 20111222; WO 2008006333 A1 20080117

DOCDB simple family (application)
DE 102006032470 A 20060713; AU 2007272141 A 20070621; BR PI0714203 A 20070621; CA 2657505 A 20070621; CN 200780026635 A 20070621; DE 2007001100 W 20070621; EA 200970038 A 20070621; EP 07764398 A 20070621; JP 2009518713 A 20070621; KR 20097000272 A 20090107; US 30580807 A 20070621