

Title (en)

DEVICE FOR HUMIDIFYING AND HEATING A COMBUSTIBLE GAS TO BE REFORMED FOR A FUEL CELL UNIT

Title (de)

EINRICHTUNG ZUR BEFEUCHTUNG UND ERHITZUNG EINES ZU REFORMIERENDEN BRENNGASES FÜR EINE BRENNSTOFFZELLENANLAGE

Title (fr)

DISPOSITIF POUR MOUILLER ET CHAUFFER UN GAZ COMBUSTIBLE À REFORMER, POUR UNE INSTALLATION À PILES À COMBUSTIBLE

Publication

**EP 2201297 A2 20100630 (DE)**

Application

**EP 08841997 A 20081022**

Priority

- EP 2008008911 W 20081022
- DE 102007050799 A 20071024

Abstract (en)

[origin: DE102007050799B3] The device has housing (1) through which the gas to be humidified and heated flows on a predetermined path. A space (5) is provided for feeding and holding the water for humidification, which is arranged in the lower area of the housing and, in which the water remains in thermal contact with a lower area of a heat exchanger (4). A vapor flow path (6) is provided, which is guided upward from the space for transport of the vaporized water to an upper area of the housing.

IPC 8 full level

**F23K 5/00** (2006.01); **C01B 3/32** (2006.01); **F28C 3/08** (2006.01); **F28F 9/22** (2006.01)

CPC (source: EP US)

**C01B 3/32** (2013.01 - EP US); **F23K 5/007** (2013.01 - EP US); **C01B 2203/0233** (2013.01 - EP US); **C01B 2203/066** (2013.01 - EP US); **C01B 2203/0811** (2013.01 - EP US); **C01B 2203/1258** (2013.01 - EP US); **C01B 2203/1288** (2013.01 - EP US); **F23K 2400/10** (2020.05 - EP US); **F28C 3/08** (2013.01 - EP US); **F28D 7/1607** (2013.01 - EP US); **F28F 9/22** (2013.01 - EP US); **Y02E 60/50** (2013.01 - EP); **Y02T 10/12** (2013.01 - EP US)

Citation (search report)

See references of WO 2009053034A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

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DOCDB simple family (application)

**DE 102007050799 A 20071024**; EP 08841997 A 20081022; EP 2008008911 W 20081022; JP 2010530326 A 20081022; KR 20107011287 A 20081022; US 91919308 A 20081022