

Title (en)

FUEL CELL VEHICLE AND DETECTION SYSTEM FOR DETECTING HYDROGEN IN A FUEL CELL VEHICLE

Title (de)

BRENNSTOFFZELLENFAHRZEUG UND DETEKTIONSSYSTEM ZUM ERKENNEN VON WASSERSTOFF IN EINEM BRENNSTOFFZELLENFAHRZEUG

Title (fr)

VÉHICULE À PILE À COMBUSTIBLE ET SYSTÈME DE DÉTECTION POUR DÉTECTION D'HYDROGÈNE DANS UN VÉHICULE À PILE À COMBUSTIBLE

Publication

**EP 4189759 A1 20230607 (DE)**

Application

**EP 21745976 A 20210715**

Priority

- DE 102020209494 A 20200728
- EP 2021069805 W 20210715

Abstract (en)

[origin: WO2022023059A1] The invention relates to a detection system (10a; 10b; 10c) for detecting hydrogen (11) in a cavity (12) of a fuel cell vehicle (13), comprising a fuel cell system (15) with a fuel cell housing (16) and a purging air line (17) for purging the fuel cell housing (16) and a hydrogen sensor (14) outside the fuel cell housing (16), wherein the purging air line (17) has a purging air outlet (18) for discharging purging air (19) out of the fuel cell housing (16), wherein the purging air outlet (18) is designed for applying the hydrogen sensor (14) with the purging air from the purging air line (17). The invention also relates to a fuel cell vehicle (13) comprising a detection system (10a; 10b; 10c) according to the invention.

IPC 8 full level

**H01M 8/0444** (2016.01); **B60L 58/30** (2019.01); **H01M 8/04791** (2016.01)

CPC (source: EP US)

**B60L 3/0053** (2013.01 - US); **B60L 50/72** (2019.01 - EP US); **H01M 8/04231** (2013.01 - US); **H01M 8/04447** (2013.01 - US); **H01M 8/0447** (2013.01 - EP); **H01M 8/04805** (2013.01 - EP); **H01M 2008/1095** (2013.01 - US); **H01M 2250/20** (2013.01 - EP US); **Y02E 60/50** (2013.01 - EP); **Y02T 90/40** (2013.01 - EP)

Citation (search report)

See references of WO 2022023059A1

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

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**DE 102020209494 A1 20220203**; CN 116133892 A 20230516; EP 4189759 A1 20230607; JP 2023535191 A 20230816; KR 20230043184 A 20230330; US 2023268529 A1 20230824; WO 2022023059 A1 20220203

DOCDB simple family (application)

**DE 102020209494 A 20200728**; CN 202180059106 A 20210715; EP 2021069805 W 20210715; EP 21745976 A 20210715; JP 2023504587 A 20210715; KR 20237006654 A 20210715; US 202118006782 A 20210715