

Title (en)

FUEL-CELL COOLING ASSEMBLY AND METHOD FOR CONTROLLING A FUEL-CELL COOLING ASSEMBLY

Title (de)

BRENNSTOFFZELLENKÜHLANORDNUNG UND VERFAHREN ZUR REGELUNG EINER BRENNSTOFFZELLENKÜHLANORDNUNG

Title (fr)

ENSEMBLE DE REFROIDISSEMENT DE PILE À COMBUSTIBLE ET PROCÉDÉ DE COMMANDE D'ENSEMBLE DE REFROIDISSEMENT DE PILE À COMBUSTIBLE

Publication

EP 4302347 A1 20240110 (DE)

Application

EP 22702487 A 20220202

Priority

- DE 102021201973 A 20210302
- EP 2022052440 W 20220202

Abstract (en)

[origin: WO2022184361A1] The invention relates to a fuel-cell cooling assembly, comprising at least one fuel cell having cooling channels running therethrough, which are designed to transfer a heat flow from the fuel cell (11) to a first cooling circuit (10), wherein: the first cooling circuit can be operated damage-free with cooling medium at a temperature of up to 200°C; in the first cooling circuit (10), a pump (17) is provided, which is designed to convey cooling medium through the fuel cell (11) and through a high-temperature cooler (18); an interior bypass (9), which can be fluidically connected to an interior heat exchanger (16), is provided parallel to the high-temperature cooler (18) in the cooling circuit (10), the interior heat exchanger (16) being designed to release a heat flow from the cooling medium to an interior of a motor vehicle supplied with energy by the fuel cell (11).

IPC 8 full level

H01M 8/04029 (2016.01); **H01M 8/0432** (2016.01); **H01M 8/04701** (2016.01); **H01M 8/04746** (2016.01)

CPC (source: EP)

H01M 8/04029 (2013.01); **H01M 8/04358** (2013.01); **H01M 8/04723** (2013.01); **H01M 8/04768** (2013.01); **H01M 2250/20** (2013.01);
Y02E 60/50 (2013.01); **Y02T 90/40** (2013.01)

Citation (search report)

See references of WO 2022184361A1

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 102021201973 A1 20220908; CN 117242605 A 20231215; EP 4302347 A1 20240110; WO 2022184361 A1 20220909

DOCDB simple family (application)

DE 102021201973 A 20210302; CN 202280030779 A 20220202; EP 2022052440 W 20220202; EP 22702487 A 20220202