

Title (en)

SYSTEM AND METHOD FOR COOLING A FUEL CELL ASSEMBLY

Title (de)

SYSTEM UND VERFAHREN ZUR KÜHLUNG EINER BRENNSTOFFZELLENANORDNUNG

Title (fr)

SYSTÈME ET PROCÉDÉ DE REFROIDISSEMENT D'UN ENSEMBLE DE PILES À COMBUSTIBLE

Publication

**EP 4233112 A1 20230830 (FR)**

Application

**EP 21794588 A 20211025**

Priority

- FR 2010966 A 20201026
- EP 2021079573 W 20211025

Abstract (en)

[origin: WO2022090173A1] The invention relates to a system for cooling a fuel cell assembly (10) of a transport vehicle, such as an aircraft, comprising: a coolant circulation loop (20); a cooling heat exchanger (24) configured to be able to provide heat exchanges between said loop (20) and a channel (25) for circulating a cooling air (26); a variable-speed pump (21) for supplying said cooling loop with coolant as a function of a measurement representative of the cooling need of said fuel cell assembly; for each fuel cell (10a, 10b, 10c) of said cell assembly, a 3-way valve (12a, 12b, 12c) for regulating the flow rate of coolant supplying this cell as a function of a measurement representative of the cooling need of this cell.

IPC 8 full level

**H01M 8/04029** (2016.01); **H01M 8/04701** (2016.01); **H01M 8/249** (2016.01)

CPC (source: EP US)

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Citation (search report)

See references of WO 2022090173A1

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