

Title (en)

FUEL CELL SYSTEM AND INTEGRATION BACKPLANE FOR FUEL CELL MODULES

Title (de)

BRENNSTOFFZELLENSYSTEM UND INTEGRIERTE RÜCKWANDPLATINE FÜR BRENNSTOFFZELLENMODULE

Title (fr)

SYSTÈME DE PILE À COMBUSTIBLE ET FOND DE PANIER D'INTÉGRATION POUR MODULES À PILES À COMBUSTIBLE

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Application

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Abstract (en)

[origin: WO2022152577A1] The invention relates to a fuel cell system (100) and to an integration backplane (10) for holding at least one pair of fuel cell modules (110), each fuel cell module (110) comprising at least one stack of fuel cells, said integration backplane (10) being provided with a positioning means (12) for the pair of fuel cell modules (110), and said integration backplane (10) being further provided with a media interface (20), wherein the media interface (20) includes module connection ports for connecting to the fuel cell modules (110). In accordance with the invention, the media interface (20) is provided with fuel ducts (72) for the routing of a fuel such as hydrogen to the fuel cell modules (110) and with an interface for the coupling with a fuel tank outlet such as a hydrogen tank outlet, and the media interface (20) includes a heating unit comprising a fuel storage medium capable of absorbing and releasing the fuel in a reversible reaction, the heating unit being connected to the fuel cell ducts (72) and being connectable to the fuel cell modules (110).

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