

Title (en)

FUEL CELL ASSEMBLY HAVING TWO PARALLEL FUEL CELL SYSTEMS

Title (de)

BRENNSTOFFZELLENANLAGE MIT ZWEI PARALLELEN BRENNSTOFFZELLENSYSTEMEN

Title (fr)

ENSEMBLE PILE À COMBUSTIBLE DOTÉ DE DEUX SYSTÈMES DE PILE À COMBUSTIBLE PARALLÈLES

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Application

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Abstract (en)

[origin: WO2022157237A1] The invention relates to a fuel cell assembly (1) having two parallel fuel cell systems (13, 14), each comprising at least one fuel cell stack (15, 16, 17, 18) having a periphery on the anode side and on the cathode side and having a common air conveyance device (2). The fuel cell assembly (1) according to the invention is characterized in that the air conveyance device (2) is two-stage, wherein both stages are designed in the form of flow compressors (3, 4), each having one compressor wheel (8, 9, 10, 11) per stage, wherein the compressor wheels (8, 9; 10, 11) for the one and the other fuel cell system (13; 14) are arranged symmetrically to at least one electric machine (5, 6) on a shaft (7).

IPC 8 full level

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