

Title (en)
FUEL CELL ARRANGEMENT

Title (de)
BRENNSTOFFZELLENANORDNUNG

Title (fr)
AGENCEMENT DE CELLULES À COMBUSTIBLE

Publication
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Application
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Abstract (en)
[origin: WO2009056272A1] The invention relates to a fuel cell arrangement having fuel cells that are disposed in the form of a fuel cell stack (10), each containing an anode (1) and a cathode (2) and an electrolyte matrix (3) disposed therebetween, having an anode input (13) provided on a side of the fuel cell stack (10) for supplying fresh fuel gas (B) to the anodes (1) and an anode output (14) for discharging consumed fuel gas (B) from the anodes (1), wherein the fuel gas (B) is guided past the anodes (1) within the fuel cell (12) in a predetermined main flow direction, having reforming units (18) for converting a fuel gas supplied to the reforming units (18) at a fuel inlet (181) into reformer fuel, which is dispensed by the reforming units (18) to a reformer fuel outlet (182), wherein the reforming units (18) are disposed between adjacent fuel cells (12) in thermal contact therewith, and wherein the reformer fuel outlet (182) of the reforming units (18) ends on the side of the fuel cell stack (10) on which the anode input (13) of the fuel cells (12) is located, and having a fuel cell supply system for distributing the fuel to be reformed to the individual reforming units (18). The reforming units (18) have fuel inlets (181) provided on the side of the fuel cell stack (10) that is opposite of the anode input (13) and the fuel to be reformed flows through said units in counter flow to the main flow direction of the fuel gas (B) and the fuel discharge system (19) is provided on the side of the fuel cell stack (10) opposite the anode input (13).

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