

Title (en)

PROCESS AND DEVICE FOR PASSIVE SECURIZATION OF A FUEL CELL ASSEMBLY

Title (de)

VERFAHREN UND VORRICHTUNG ZUR PASSIVEN SICHERUNG EINER BRENNSTOFFZELLENANORDNUNG

Title (fr)

PROCEDE ET DISPOSITIF DE SECURISATION PASSIVE D'UN ENSEMBLE PILE A COMBUSTIBLE

Publication

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Application

EP 08806001 A 20080613

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Abstract (en)

[origin: WO2009004233A2] The invention relates to a process and a device for passive securization of a fuel cell assembly (H) having cathode and anode outlet streams, sent at least in part to a removal means (8) suitable for maintaining the hydrogen at an inoffensive concentration, comprising the steps of collecting at least one part of the anode outlet stream in a buffer reserve (3), of controlled evacuation of the buffer reserve (3), this control being carried out as a function of one or more parameters of the various outlet streams and/or of operating conditions of the cell (H) and/or of the removal means (8) in order to always guarantee a hydrogen concentration below the lower explosive limit (LEL) in the stream obtained after mixing, of mixing the controlled anode outlet stream with the cathode outlet stream, and of conveying at least one part of the stream after mixing, for example, to a catalytic burner (8).

IPC 8 full level

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Citation (search report)

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