

Title (en)

METHOD FOR OPERATING AND DESIGNING A FUEL CELL SYSTEM

Title (de)

VERFAHREN ZUM BETREIBEN UND ZUM AUSLEGEN EINES BRENNSTOFFZELLENSYSTEMS

Title (fr)

PROCÉDÉ POUR FAIRE FONCTIONNER ET CONCEVOIR UN SYSTÈME À PILE À COMBUSTIBLE

Publication

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Application

**EP 20780115 A 20200918**

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Abstract (en)

[origin: WO2021083579A1] The invention relates to a method for operating a fuel cell system with a fuel cell, to which a cathode gas, such as air, is supplied on a cathode inlet side by means of an electrically powered gas supply device (30) which is designed as a turbomachine, the working range of which can be represented in a characteristic field which has a surge line and a choke line. In order to extend the service life of the fuel cell system, surge events which are intrinsically undesirable during operation of the electrically powered gas supply device (30) are deliberately permitted in a specific working range of the electrically powered gas supply device (30) beyond the surge line.

IPC 8 full level

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