Title (en)
METHOD FOR OPERATING A FUEL CELL SYSTEM

Title (de)
VERFAHREN ZUM BETREIBEN EINES BRENNSTOFFZELLENSYSTEMS

Title (fr)
PROCÉDÉ SERVANT À FAIRE FONCTIONNER UN SYSTÈME DE PILES À COMBUSTIBLE

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Abstract (en)
[origin: WO2021139935A1] The invention relates to a method for operating a fuel cell system having a fuel cell, to which air compressed by means of an electromotively driven air compressor is fed, the working range of which electromotively driven air compressor can be represented in a characteristic map (20) which has a surge limit (20) and a choke limit (28) and which is stored in a controller of the electromotively driven air compressor. In order to lengthen the service life of the fuel cell system, at least one flow signal is acquired during the operation of the electromotively driven air compressor and is compared with a pre-surge threshold value (29) stored in the characteristic map (20), wherein the electromotively driven air compressor is controlled in targeted fashion such that a surge threshold value likewise stored in the characteristic map (20) is not reached during the operation of the electromotively driven air compressor.

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