Title (en)

OPERATING SYSTEMS FOR CATALYTIC REFORMING

Title (de)

BETRIEB VON ANLAGEN FÜR DAS KATALYTISCHE REFORMING

Title (fr)

FONCTIONNEMENT DE SYSTÈMES POUR LE REFORMAGE CATALYTIQUE

Publication

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Application

EP 18732131 A 20180626

Priority

- EP 17178519 A 20170628
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Abstract (en)

[origin: WO2019002320A1] The invention relates to a method for optimising the operation of a system for catalytic reforming. The system has a plurality of reactors containing a catalyst, through which working gas flows successively, wherein the composition of the working gas in the reactors changes and wherein a product results on the output side of the last reactor. According to the method, firstly specific constant properties and initial operating parameters of the system that are present during the operation are captured. A computational simulation of chemical processes in the reactors then takes place, wherein, in addition to the constant properties and the captured system operating parameters, results of a measurement of the chemical composition of the product resulting on the output side of the last reactor are incorporated. Then, a computational simulation of the chemical processes in the reactors is performed with different, varied operating parameters, wherein as varied operating parameters, in addition to a flow rate of molecular hydrogen, various temperatures of the working gas at the input of each reactor are also adjusted individually. A set of optimised operating parameters is determined from the calculated chemical composition.

IPC 8 full level

C10G 35/24 (2006.01)

CPC (source: EA EP US)

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Citation (search report)

See references of WO 2019002320A1

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