

Title (en)

METHOD AND DEVICE FOR PRODUCING ETHYLENICALLY UNSATURATED HALOGENATED HYDROCARBONS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON ETHYLENISCH UNGESÄTTIGTEN HALOGENIERTEN KOHLENWASSERSTOFFEN

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR PRÉPARER DES HYDROCARBURES HALOGÉNÉS ÉTHYLÉNIQUEMENT INSATURÉS

Publication

EP 2344431 A1 20110720 (DE)

Application

EP 09778303 A 20090903

Priority

- EP 2009006383 W 20090903
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Abstract (en)

[origin: WO2010034396A1] The invention relates to a method and a device for thermally cracking halogenated aliphatic hydrocarbons, especially for thermally cracking 1,2-dichloroethane to give vinyl chloride, in a manner that is gentle to the product, using chemical cracking promoters and/or physical measures initiating the cracking reaction. The temperature level in the reaction mixture and the temperature of the cracked gas leaving the cracking furnace is reduced by initiating the cracking reaction while the conversion percentage remains the same. The quantity and the outlet temperature of the flue gas from the convection zone of the cracking furnace is likewise reduced. In order to be able to put the operation that is gentle to the product into practice in the radiation section of the cracking furnace while at the same time maintaining the functioning of the convection zone, the heat supply to the cracking furnace is distributed in such a manner that a part of the heat obtained by bottom firing is supplied by means of burners in the radiation section and the other part of the heat obtained by bottom-firing is supplied by means of burners that are arranged at the outlet of the flue gas from the radiation section. The partial decoupling of the heat supply of the radiation section and the convection zone allows an operation that is especially gentle to the product.

IPC 8 full level

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Citation (search report)

See references of WO 2010034396A1

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DOCDB simple family (publication)

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