

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 2344432 A1 20110720 (DE)

Application

EP 09778304 A 20090903

Priority

- EP 2009006384 W 20090903
- DE 102008049260 A 20080926

Abstract (en)

[origin: WO2010034397A1] The invention relates to a method and a device for producing ethylenically unsaturated halogenated hydrocarbons, especially of vinyl chloride, by thermally cracking 1,2-dichloroethane, using physical or chemical measures initiating the cracking reaction. The method and the device according to the invention allow the output obtainable using the cracking reactors of a defined size to be considerably increased. According to the method, initiating measures are used to increase the flux density through the wall of the reactor tube and at the same time to increase the reactant feed rate and the heating capacity of the reaction furnace to such an extent that the conversion percentage of the reaction is not considerably increased as compared to methods not using initiating measures. In order to be able to operate the method in an economical manner even when the reaction temperature is reduced, the process parameters have to be adjusted such that the evaporation of the quantity of feedstock used is brought about to at least 50% by means of the perceptible heat content of the reaction mixture leaving the reaction zone.

IPC 8 full level

C07C 17/25 (2006.01); **B01D 3/06** (2006.01); **B01J 19/12** (2006.01); **B01J 19/24** (2006.01); **C07C 21/06** (2006.01)

CPC (source: EP KR US)

B01J 19/088 (2013.01 - EP US); **B01J 19/12** (2013.01 - EP KR US); **B01J 19/24** (2013.01 - EP US); **C07C 17/25** (2013.01 - EP KR US); **C07C 17/383** (2013.01 - KR); **C07C 21/06** (2013.01 - KR); **B01J 2219/00157** (2013.01 - EP US); **B01J 2219/0024** (2013.01 - EP US); **B01J 2219/0896** (2013.01 - EP US)

C-Set (source: EP US)

C07C 17/25 + **C07C 21/06**

Citation (search report)

See references of WO 2010034397A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

WO 2010034397 A1 20100401; BR PI0919043 A2 20151208; CN 102177115 A 20110907; DE 102008049260 A1 20100422; DE 102008049260 B4 20160310; EP 2344432 A1 20110720; KR 20110076967 A 20110706; RU 2011116408 A 20121110; TW 201022185 A 20100616; US 2011230683 A1 20110922; ZA 201101613 B 20111130

DOCDB simple family (application)

EP 2009006384 W 20090903; BR PI0919043 A 20090903; CN 200980137544 A 20090903; DE 102008049260 A 20080926; EP 09778304 A 20090903; KR 20117009455 A 20090903; RU 2011116408 A 20090903; TW 98130225 A 20090908; US 99817209 A 20090903; ZA 201101613 A 20110302