

Title (en)

PROCESS AND APPARATUS FOR DEHYDRATING ALKANES WITH EQUALIZATION OF THE PRODUCT COMPOSITION

Title (de)

VERFAHREN UND VORRICHTUNG ZUR DEHYDRIERUNG VON ALKANEN MIT EINER VERGLEICHMÄSSIGUNG DER PRODUKTZUSAMMENSETZUNG

Title (fr)

PROCÉDÉ ET DISPOSITIF DE DÉSHYDROGÉNATION D'ALCANES AVEC UNE UNIFORMISATION DE LA COMPOSITION DE PRODUIT

Publication

**EP 2456739 A1 20120530 (DE)**

Application

**EP 10754857 A 20100716**

Priority

- DE 102009034464 A 20090722
- EP 2010004348 W 20100716

Abstract (en)

[origin: WO2011009570A1] The invention relates to processes for dehydrating alkanes. In a plurality of reactors of the adiabatic, allothermic or isothermic type or combinations thereof, a gaseous alkane-containing stream of material is led through a bed of catalyst in a continuous operation, which produces a gas stream which contains an alkane, hydrogen and an unconverted alkane. In order to achieve equalization of the product composition, at least one of the process parameters comprising temperature, pressure or vapor-hydrocarbon ratio is registered at one or more points on at least one of the reactors in the form of measured values, at least one of the process parameters being monitored and influenced in a specific manner, so that the composition of the product gas at the outlet from the reactor remains constant over the operating period.

IPC 8 full level

**C07C 5/333** (2006.01); **C07C 11/06** (2006.01); **C07C 11/08** (2006.01); **C07C 11/09** (2006.01); **C07C 11/167** (2006.01)

CPC (source: EP KR US)

**C07C 5/333** (2013.01 - EP KR US); **C07C 5/41** (2013.01 - EP KR US); **C07C 5/415** (2013.01 - KR)

Citation (search report)

See references of WO 2011009570A1

Designated contracting state (EPC)

AL 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

DOCDB simple family (publication)

**WO 2011009570 A1 20110127**; AR 080272 A1 20120328; BR 112012001215 A2 20170530; CA 2768874 A1 20110127; CN 102471187 A 20120523; CN 102471187 B 20151007; DE 102009034464 A1 20110818; EG 27148 A 20150810; EP 2456739 A1 20120530; IN 1598DEN2012 A 20150605; JP 2012533583 A 20121227; KR 20120099368 A 20120910; MX 2012000935 A 20120601; MY 172617 A 20191206; RU 2012105068 A 20130827; RU 2556010 C2 20150710; US 2012197054 A1 20120802; ZA 201201280 B 20121128

DOCDB simple family (application)

**EP 2010004348 W 20100716**; AR P100102643 A 20100720; BR 112012001215 A 20100716; CA 2768874 A 20100716; CN 201080032742 A 20100716; DE 102009034464 A 20090722; EG 2012010102 A 20120118; EP 10754857 A 20100716; IN 1598DEN2012 A 20120222; JP 2012520940 A 20100716; KR 20127004433 A 20100716; MX 2012000935 A 20100716; MY PI2012000246 A 20100716; RU 2012105068 A 20100716; US 201013386588 A 20100716; ZA 201201280 A 20120221