

Title (en)
PROCESSES AND SYSTEMS FOR CONVERTING HYDROCARBONS TO CYCLOPENTADIENE

Title (de)
VERFAHREN UND SYSTEME ZUR UMWANDLUNG VON KOHLENWASSERSTOFFEN ZU CYCLOPENTADIEN

Title (fr)
PROCESSUS ET SYSTÈMES DE CONVERSION D'HYDROCARBURES EN CYCLOPENTADIÈNE

Publication
EP 3371142 A4 20181024 (EN)

Application
EP 16862675 A 20161007

Priority
• US 201562250697 P 20151104
• EP 16153727 A 20160202
• US 2016056048 W 20161007

Abstract (en)
[origin: WO2017078905A1] This invention relates to a process for converting acyclic C5 hydrocarbons to cyclopentadiene including: providing to the at least one adiabatic reaction zone a feedstock comprising acyclic C5 hydrocarbons at a temperature, T_1 , wherein the at least one adiabatic reaction zone comprises a first particulate material comprising catalyst material; contacting the feedstock and the first particulate material in the at least one adiabatic reaction zone under reaction conditions to convert at least a portion of the acyclic C5 hydrocarbons to a first effluent comprising cyclopentadiene intermediates, unconverted acyclic C5 hydrocarbons, and, optionally, cyclopentadiene; heating the first effluent to a temperature, T_2 ; providing the first effluent to the at least one diabatic reaction zone; and contacting the first effluent and a second particulate material comprising catalyst material in the at least one diabatic reaction zone under reaction conditions to convert at least a portion of the cyclopentadiene intermediates and the unconverted acyclic C5 hydrocarbons to a second effluent comprising cyclopentadiene.

IPC 8 full level
C07C 5/373 (2006.01); **C07C 13/15** (2006.01)

CPC (source: EP)
B01J 21/08 (2013.01); **B01J 23/42** (2013.01); **B01J 29/44** (2013.01); **B01J 29/62** (2013.01); **B01J 29/90** (2013.01); **B01J 38/02** (2013.01); **B01J 38/10** (2013.01); **C07C 5/333** (2013.01); **C07C 5/373** (2013.01); **B01J 2229/186** (2013.01); **C07C 2529/44** (2013.01); **C07C 2603/10** (2017.04); **Y02P 20/50** (2015.11); **Y02P 20/584** (2015.11)

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• See references of WO 2017078905A1

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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2017078905 A1 20170511; **WO 2017078905 A8 20170810**; CA 3004332 A1 20170511; CA 3004332 C 20191231; CN 108349839 A 20180731; CN 108349839 B 20210409; EP 3371142 A1 20180912; EP 3371142 A4 20181024; JP 2018532794 A 20181108; JP 6640365 B2 20200205

DOCDB simple family (application)
US 2016056048 W 20161007; CA 3004332 A 20161007; CN 201680064160 A 20161007; EP 16862675 A 20161007; JP 2018542669 A 20161007