

Title (en)

PROCESS AND SYSTEM FOR MAKING CYCLOPENTADIENE AND/OR DICYCLOPENTADIENE

Title (de)

VERFAHREN UND SYSTEM ZUR HERSTELLUNG VON CYCLOPENTADIEN UND/ODER DICYCLOPENTADIEN

Title (fr)

PROCÉDÉ ET SYSTÈME DE FABRICATION DE CYCLOPENTADIÈNE ET/OU DE DICYCLOPENTADIÈNE

Publication

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Application

EP 16862670 A 20161007

Priority

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- US 2016056030 W 20161007

Abstract (en)

[origin: WO2017078900A1] Processes and systems for making cyclopentadiene and/or dicyclopentadiene include converting acyclic C5 hydrocarbon(s) into CPD in a first reactor to obtain a product mixture, separating the product mixture in a separation sub-system such as compression train to obtain a C5-rich fraction comprising CPD and essentially depleted of hydrogen and C1-C4 hydrocarbons, dimerizing the C5-rich fraction in a dimerization reactor to obtain a product effluent comprising DCPD, followed by separating the product effluent to obtain a DCPD-rich fraction. Multiple-stage of dimerization and separation steps can be optionally used to obtain multiple DCPD-rich fractions of various degrees of purity and quantity. C5-rich fractions from various stages of the process may be recycled to the first reactor, or converted into mogas components after selective hydrogenation. C5-rich fractions and mogas components may be optionally separated to produce value-adding chemicals.

IPC 8 full level

C07C 2/52 (2006.01); **B01J 29/44** (2006.01); **C07C 13/15** (2006.01); **C07C 13/61** (2006.01)

CPC (source: EP)

B01J 29/44 (2013.01); **C07C 2/52** (2013.01); **C07C 5/333** (2013.01); **C07C 5/373** (2013.01); **B01J 2229/186** (2013.01); **C07C 2529/44** (2013.01); **C07C 2601/10** (2017.04); **C07C 2603/68** (2017.04)

C-Set (source: EP)

1. **C07C 5/373 + C07C 13/15**
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