

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 16862672 A 20161007

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Abstract (en)

[origin: WO2017078902A1] 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, washing the product mixture with a wash oil, separating the washed product mixture in a separation sub-system such as compression train to obtain a C5-rich fraction comprising CPD, dimerizing the C5-rich fraction in a dimerization reactor to obtain a product effluent, followed by separating the product effluent to obtain a DCPD-rich fraction. Wash oil can be recovered and recycled. Multiple-stage of dimerization and separation steps can be used to obtain multiple DCPD-rich fractions of various 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

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