

Title (en)  
PROCESSES AND SYSTEMS FOR THE CONVERSION OF ACYCLIC HYDROCARBONS

Title (de)  
VERFAHREN UND SYSTEME ZUR UMWANDLUNG VON ACYCLISCHEN KOHLENWASSERSTOFFEN

Title (fr)  
PROCÉDÉS ET SYSTÈMES POUR LA CONVERSION D'HYDROCARBURES ACYCLIQUES

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Application  
**EP 18795006 A 20180209**

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Abstract (en)  
[origin: CA3059556A1] This invention relates to processes and systems for converting acyclic hydrocarbons to alkenes, cyclic hydrocarbons and/or aromatics, for example converting acyclic C5 hydrocarbons to cyclopentadiene in a reactor system. The process includes contacting a feedstock comprising acyclic hydrocarbons with a catalyst material in at least one reaction zone to convert at least a portion of the acyclic hydrocarbons to a first effluent comprising alkenes, cyclic hydrocarbons and/or aromatics. A co-feed comprising H<sub>2</sub>, C1-C4 alkanes and/or C1-C4 alkenes may also be provided to the at least one reaction zone.

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

Citation (search report)  
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• [X] ZEESHAN NAWAZ: "Light alkane dehydrogenation to light olefin technologies: a comprehensive review", REVIEWS IN CHEMICAL ENGINEERING, vol. 31, no. 5, 1 January 2015 (2015-01-01), NL, pages 413 - 436, XP055273805, ISSN: 0167-8299, DOI: 10.1515/revce-2015-0012  
• See references of WO 2018203950A1

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