

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

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Application  
**EP 16862675 A 20161007**

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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<sub>i</sub>, 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<sub>2</sub>; 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.

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Citation (search report)  

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- See references of WO 2017078905A1

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