

Title (en)
METHOD FOR PRODUCING C2 AND C3 OLEFINS FROM HYDROCARBONS

Title (de)
VERFAHREN ZUM ERZEUGEN VON C2- UND C3- OLEFINEN AUS KOHLENWASSERSTOFFEN

Title (fr)
PROCEDE DE PRODUCTION D'OLEFINES C2 ET C3 A PARTIR D'HYDROCARBURES

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Application
EP 01903630 A 20010108

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Abstract (en)
[origin: WO0151590A1] The hydrocarbon to be used, together with water vapour, is subjected to thermal steam cracking, whereby said hydrocarbon is in the vapour state. The hydrocarbon is heated to temperatures ranging from 700 to 1,000 DEG C during steam cracking. A crack mixture is produced which contains C2 to C6 olefins and C4 to C6 diolefins. A first fraction containing C2 and C3 olefins and a second fraction containing olefins and diolefins ranging from C4 to C6 are separated from the crack mixture. The diolefins are at least partially removed from the second fraction and an intermediate product is produced that consists of at least 30 wt. % C4 to C6 olefins. A mixture to be used containing C4 to C6 olefins and water vapour and having an initial temperature of 300 to 700 DEG C is guided into a reactor which contains a bulk of a grained and form-selective catalyst. A product mixture containing C2 to C4 olefins is withdrawn from the bulk and C2 and C3 olefins are separated from the product mixture.

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IPC 8 full level
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