

Title (en)

METHOD AND SYSTEM FOR OBTAINING ONE OR MORE OLEFINS

Title (de)

VERFAHREN UND ANLAGE ZUR GEWINNUNG EINES ODER MEHRERER OLEFINE

Title (fr)

PROCÉDÉ ET SYSTÈME POUR OBTENIR UNE OU PLUSIEURS OLÉFINES

Publication

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Application

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Priority

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Abstract (en)

[origin: CA3057248A1] The invention relates to a method (100, 200) for obtaining one or more olefins, wherein a gas mixture which contains hydrogen, methane, carbon monoxide, and hydrocarbons which boil at a higher temperature than methane is formed using an oxidative coupling of methane (10) and is subjected to a low temperature separation (1-5). The invention is characterized in that the low temperature separation (1-5) is carried out using a rectification column (2) with a first separation region (21), a second separation region (22) arranged above the first separation region (21), and a condenser evaporator (23), wherein the gas mixture is cooled, supplied to the first separation region (21) at least partly as a first separation input, and undergoes a first rectification process in the first separation region (21), thereby forming a first head gas and a first bottom liquid. A condensate which is returned to the first separation region is formed using a first part of the first head gas in the condenser evaporator (23), and a second separation input which is supplied to the second separation region (22) is formed using a second part of the head gas. The second separation input undergoes a second rectification process in the second separation region, thereby forming a second head gas and a second bottom liquid.

IPC 8 full level

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