

Title (en)

METHOD FOR CONVERTING METHANE-CONTAINING GASEOUS HYDROCARBON MIXTURES TO LIQUID HYDROCARBONS

Title (de)

VERFAHREN ZUR UMWANDLUNG VON METHANHALTIGEN GASFÖRMIGEN KOHLENWASSERSTOFFGEMISCHEN IN FLÜSSIGE KOHLENWASSERSTOFFE

Title (fr)

PROCEDE PERMETTANT DE CONVERTIR DES MELANGES D'HYDROCARBURES GAZEUX, CONTENANT DU METHANE, EN HYDROCARBURES LIQUIDES

Publication

EP 1532228 A1 20050525 (EN)

Application

EP 02807530 A 20020614

Priority

US 0219026 W 20020614

Abstract (en)

[origin: CA2489383A1] An improved process for the conversion of normally gaseous methane-hydrocarbon mixtures (1), such as natural gas, to a normally liquid hydrocarbon product (10) comprises separating the methane component of the gaseous mixture from the heavier hydrocarbon component, cracking the separated heavier hydrocarbon component (3) at a relatively low temperature and optionally cracking the methane component at a relatively high temperature. The low temperature cracking product and any high temperature cracking product (11) are separated into a light product (31) of principally hydrogen and a heavy product (7) comprising unsaturated hydrocarbons. This heavy product is reacted with methane in the presence of an acidic alkalization catalyst. The resulting product mixture (9) is separated into a light product (61), a portion of which is recycled, and the normally liquid hydrocarbon product (10).

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C10G 67/02

IPC 8 full level

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CPC (source: EP)

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