

Title (en)

Process for the simultaneous elimination of CO<sub>2</sub> and gasoline from a gaseous hydrocarbon mixture comprising methane, C<sub>2</sub> and higher hydrocarbons and also CO<sub>2</sub>.

Title (de)

Verfahren zur gleichzeitigen Ausscheidung von CO<sub>2</sub> und Benzin aus Methan, C<sub>2</sub> und höheren Kohlenwasserstoffen und CO<sub>2</sub> enthaltenden gasförmigen Kohlenwasserstoffen.

Title (fr)

Procédé de décarbonatation et de dégazolinage simultanés d'un mélange gazeux constitué principalement d'hydrocarbures consistant en méthane et hydrocarbures en C<sub>2</sub> et plus et renfermant également CO<sub>2</sub>.

Publication

**EP 0556875 B1 19950712 (FR)**

Application

**EP 93107550 A 19891114**

Priority

- EP 89403123 A 19891114
- FR 8814784 A 19881115

Abstract (en)

[origin: WO9005766A1] The gaseous mixture to be treated (1) is washed (5) between 0 DEG C and -45 DEG C by means of a solvent, CO<sub>2</sub> and C<sub>3</sub> and greater hydrocarbons to produce a methane current (8) containing at the most 2 mole per cent of CO<sub>2</sub> and a liquid phase (11) rich in CO<sub>2</sub> and containing at least 80 mole per cent of C<sub>3</sub> and greater of the gaseous mixture (1). The liquid phase (11) is subjected to demethanisation (12, 17) producing a rich demethanised solvent (27) and a gaseous phase rich in methane (22), then the rich solvent (27) is treated to produce an acid gas current (44) rich in CO<sub>2</sub> and containing, expressed in methane equivalent, less than 10 mole per cent of hydrocarbons, a fraction of C<sub>2</sub> and more hydrocarbons (48) containing more than 80 mole per cent of C<sub>3</sub> and more hydrocarbons present in the gaseous mixture (1) and a regenerated solvent (34), which is recycled in the washing zone (5).

IPC 1-7

**C10G 5/04**

IPC 8 full level

**C10G 5/04** (2006.01); **C10G 7/00** (2006.01)

CPC (source: EP US)

**C10G 5/04** (2013.01 - EP US); **C10G 2300/1025** (2013.01 - EP US)

Designated contracting state (EPC)

AT DE ES FR GB GR IT NL

DOCDB simple family (publication)

**EP 0373983 A1 19900620**; **EP 0373983 B1 19940126**; AT E124987 T1 19950715; AU 4637589 A 19900612; AU 627250 B2 19920820; BR 8907193 A 19910305; CA 2002826 A1 19900515; CA 2002826 C 19990629; DE 68912746 D1 19940310; DE 68912746 T2 19940811; DE 68923459 D1 19950817; DE 68923459 T2 19960404; EP 0556875 A2 19930825; EP 0556875 A3 19931110; EP 0556875 B1 19950712; ES 2050833 T3 19940601; ES 2077452 T3 19951116; FR 2641542 A1 19900713; FR 2641542 B1 19940624; JP 2742328 B2 19980422; JP H03503779 A 19910822; NO 180687 B 19970217; NO 180687 C 19970528; NO 903128 D0 19900713; NO 903128 L 19900911; RU 1836407 C 19930823; UA 26318 A 19990830; US 5298156 A 19940329; WO 9005766 A1 19900531

DOCDB simple family (application)

**EP 89403123 A 19891114**; AT 93107550 T 19891114; AU 4637589 A 19891114; BR 8907193 A 19891114; CA 2002826 A 19891114; DE 68912746 T 19891114; DE 68923459 T 19891114; EP 93107550 A 19891114; ES 89403123 T 19891114; ES 93107550 T 19891114; FR 8814784 A 19881115; FR 8900584 W 19891114; JP 50004889 A 19891114; NO 903128 A 19900713; SU 4831497 A 19900713; UA 4831497 A 19891114; US 54371490 A 19900714