

Title (en)

Process for the simultaneous elimination of CO₂ and gasoline from a gaseous hydrocarbon mixture comprising methane, C₂ and higher hydrocarbons and also CO₂.

Title (de)

Verfahren zur gleichzeitigen Ausscheidung von CO₂ und Bearin aus Methan, C₂ und höheren Kohlenwasserstoffen und CO₂ 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 C₂ et plus et renfermant également du CO₂.

Publication

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Application

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Priority

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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, CO₂ and C₃ and greater hydrocarbons to produce a methane current (8) containing at the most 2 mole per cent of CO₂ and a liquid phase (11) rich in CO₂ and containing at least 80 mole per cent of C₃ 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 trated to produce an acid gas current (44) rich in CO₂ and conatining, expressed in methane equivalent, less than 10 mole per cent of hydrocarbons, a fraction of C₂ and more hydrocarbons (48) containing more than 80 mole per cent of C₃ and more hydrocarbons present in the gaseous mixture (1) and a regenerated solvent (34), which is recycled in the washing zone (5).

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