

Title (en)

METHOD FOR LIQUEFYING CARBON DIOXIDE FROM A NATURAL GAS STREAM

Title (de)

VERFLÜSSIGUNGSVERFAHREN VON KOHLENDIOXID AUS EINEM ERDGASSTROM

Title (fr)

PROCÉDÉ DE LIQUÉFACTION DE DIOXYDE DE CARBONE ISSU D'UN COURANT DE GAZ NATUREL

Publication

**EP 3252406 B1 20200701 (FR)**

Application

**EP 17171766 A 20170518**

Priority

FR 1654996 A 20160602

Abstract (en)

[origin: US2017350648A1] A process for producing liquefied natural gas and liquid carbon dioxide comprising: Step a): separating a natural gas feed gas into a CO<sub>2</sub>-enriched gas stream and a CO<sub>2</sub>-depleted natural gas stream; Step b): liquefying the CO<sub>2</sub>-depleted natural gas stream in a liquefaction unit comprising at least a main heat exchanger and a system for producing frigorities, said liquefaction unit comprising at least one refrigeration cycle fed by a refrigerant stream; Step c): simultaneous liquefying of the CO<sub>2</sub>-enriched gas stream resulting from step a) in a CO<sub>2</sub> liquefaction unit; wherein the refrigeration necessary for the liquefaction of the CO<sub>2</sub>-enriched gas stream and for the liquefaction of the natural gas is supplied by said frigorite-producing system of the liquefaction unit and in that the refrigeration necessary for the liquefaction of the CO<sub>2</sub>-enriched gas stream originates from a portion of said refrigerant stream supplying the refrigeration cycle of said liquefaction unit.

IPC 8 full level

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CPC (source: EP US)

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