

Title (en)
SYSTEM AND METHOD TO PRODUCE LIQUEFIED NATURAL GAS USING TWO DISTINCT REFRIGERATION CYCLES WITH AN INTEGRAL GEAR MACHINE

Title (de)
SYSTEM UND VERFAHREN ZUR HERSTELLUNG VON FLÜSSIGERDAS UNTER VERWENDUNG VON ZWEI VERSCHIEDENEN KÄLTEKREISLÄUFEN MIT EINER INTEGRIERTEN ZAHNRADMASCHINE

Title (fr)
SYSTÈME ET PROCÉDÉ DE PRODUCTION DE GAZ NATUREL LIQUÉFIÉ À L'AIDE DE DEUX CYCLES DE RÉFRIGÉRATION DISTINCTS AVEC UNE MACHINE À ENGRENAGE INTÉGRÉE

Publication
EP 4323704 A1 20240221 (EN)

Application
EP 22720191 A 20220411

Priority
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• US 2022024184 W 20220411

Abstract (en)
[origin: US2022333852A1] A system and method for liquefaction of natural gas using two distinct refrigeration circuits having compositionally different working fluids and operating at different temperature levels is provided. The turbomachinery associated with the liquefaction system are driven by a single three-pinion or four-pinion integral gear machine with customized pairing arrangements. The system and method of natural gas liquefaction further includes the conditioning of a lower pressure natural gas containing feed stream to produce a purified, compressed natural gas containing stream at a pressure equal to or above the critical pressure of natural gas and substantially free of heavy hydrocarbons to be liquefied.

IPC 8 full level
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CPC (source: EP US)
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DOCDB simple family (publication)
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