

Title (en)

HYBRID CYCLE LIQUEFACTION OF NATURAL GAS WITH PROPANE PRE-COOLING

Title (de)

HYBRIDKREISLAUF-VERFLÜSSIGUNG VON ERDGAS MIT PROPAN-VORKÜHLUNG

Title (fr)

LIQUÉFACTION DE GAZ NATUREL PAR CYCLE HYBRIDE AVEC PRÉREFROIDISSEMENT AU PROPANE

Publication

EP 2092257 A2 20090826 (EN)

Application

EP 07848093 A 20071213

Priority

- EP 2007063854 W 20071213
- US 64058406 A 20061218

Abstract (en)

[origin: US2008141711A1] Natural gas is liquefied in a hybrid liquefaction cycle in which the gas feed is precooled using vaporizing liquefied refrigerant gas; liquefied using vaporizing mixed refrigerant comprising ethylene and at least one other refrigerant selected from hydrocarbons and halocarbons; and subcooled using a work expanded pressurized gaseous refrigerant stream. Preferably, the liquefied refrigerant gas used for precooling is propane, the mixed refrigerant does not contain ethane or nitrogen and the pressurized gaseous refrigerant is nitrogen.

IPC 8 full level

F25J 1/02 (2006.01)

CPC (source: EP US)

F25J 1/0022 (2013.01 - EP US); **F25J 1/005** (2013.01 - EP US); **F25J 1/0052** (2013.01 - EP US); **F25J 1/0072** (2013.01 - EP US); **F25J 1/0087** (2013.01 - EP US); **F25J 1/0097** (2013.01 - EP US); **F25J 1/0217** (2013.01 - EP US); **F25J 1/0218** (2013.01 - EP US); **F25J 1/0265** (2013.01 - EP US); **F25J 1/0292** (2013.01 - EP US)

Citation (search report)

See references of WO 2008074718A2

Cited by

US10480851B2; US10663221B2; US11408676B2; US9441877B2; US10502483B2

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