

Title (en)
MIXED REFRIGERANT LIQUEFACTION PROCESS

Title (de)
VERFLÜSSIGUNGSVERFAHREN MIT GEMISCHTEM KÜHLMITTEL

Title (fr)
PROCEDE DE LIQUEFACTION DE REFRIGERANT MIXTE

Publication
EP 1774233 A2 20070418 (EN)

Application
EP 05756120 A 20050606

Priority
• US 2005019606 W 20050606
• US 56558904 P 20040623

Abstract (en)
[origin: WO2006007278A2] A method for liquefying a natural gas stream is provided. In one embodiment, the method includes placing a mixed component refrigerant in a heat exchange area with a process stream; separating the mixed component refrigerant at one or more pressure levels to produce a refrigerant vapor and a refrigerant liquid; bypassing the refrigerant vapor around the heat exchange area to a compression unit; and passing the refrigerant liquid to the heat exchange area. In another embodiment, the method further includes partially evaporating the refrigerant liquid stream within the heat exchange area to retain a liquid fraction of at least 1% by weight.

IPC 8 full level
F25J 1/02 (2006.01)

CPC (source: EP KR NO US)
C10L 3/10 (2013.01 - NO); **F25B 9/006** (2013.01 - EP US); **F25J 1/00** (2013.01 - KR NO); **F25J 1/0022** (2013.01 - EP US); **F25J 1/0042** (2013.01 - EP US); **F25J 1/0052** (2013.01 - EP US); **F25J 1/0092** (2013.01 - EP US); **F25J 1/0097** (2013.01 - EP US); **F25J 1/0214** (2013.01 - EP US); **F25J 1/0262** (2013.01 - EP US); **F25J 1/0291** (2013.01 - EP US); **F25J 1/0292** (2013.01 - EP US); **F25J 3/00** (2013.01 - NO); **F25B 2400/12** (2013.01 - EP US); **F25B 2400/13** (2013.01 - EP US); **F25J 2290/32** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
HR

DOCDB simple family (publication)
WO 2006007278 A2 20060119; WO 2006007278 A3 20061221; AU 2005262611 A1 20060119; AU 2005262611 B2 20101104; BR PI0511785 A 20080115; BR PI0511785 B1 20180403; BR PI0511785 B8 20180424; CA 2567052 A1 20060119; CA 2567052 C 20130924; CN 100504262 C 20090624; CN 1965204 A 20070516; EP 1774233 A2 20070418; EP 1774233 A4 20130116; JP 2008504509 A 20080214; JP 5605977 B2 20141015; KR 101301024 B1 20130829; KR 20070022788 A 20070227; MX PA06014437 A 20070713; NO 20070370 L 20070323; US 2007227185 A1 20071004

DOCDB simple family (application)
US 2005019606 W 20050606; AU 2005262611 A 20050606; BR PI0511785 A 20050606; CA 2567052 A 20050606; CN 200580017492 A 20050606; EP 05756120 A 20050606; JP 2007518089 A 20050606; KR 20067027111 A 20050606; MX PA06014437 A 20050606; NO 20070370 A 20070123; US 57912905 A 20050606