

Title (en)
METHOD AND ARRANGEMENT FOR LIQUEFYING A STREAM RICH IN HYDROCARBONS

Title (de)
VERFAHREN UND ANLAGE ZUM VERFLÜSSIGEN EINES KOHLENWASSERSTOFFREICHEN STROMS

Title (fr)
PROCEDE ET INSTALLATION POUR LIQUEFIER UN COURANT RICHE EN HYDROCARBURE

Publication
EP 1913319 A2 20080423 (DE)

Application
EP 06764322 A 20060811

Priority
• EP 2006065278 W 20060811
• DE 102005038266 A 20050812

Abstract (en)
[origin: WO2007020252A2] The invention relates to a method and to an arrangement for liquefying, in particular, by precooling or by supercooling, a stream which is rich in hydrocarbon, in particular a stream of natural gas, by the indirect exchange of heat with the coolant mixture of at least one coolant mixture circuit, which takes places by means of at least one heat exchanger (E). After relaxing (3), the coolant mixture is vaporised counter to the stream which is rich in hydrocarbons and which is to be liquefied and counter to itself. According to the invention, between approximately 90 % and approximately 99 %, preferably, 95 % of the stream of coolant mixture, which is to be vaporised, is vaporised, subsequently, the partially vaporised stream of coolant mixture is separated (D --> 5, 6) into a gas fraction and into a liquid fraction, the gas fraction is compressed to a desired end pressure, in particular, by means of at least one cold-suctioning (5) compressor (V), the liquid fraction is pumped, in particular, by means of at least one pump (P), and finally, the gas fraction and the liquid fraction are purified(1 and/or 2'), prior to or after, in particular, respective relaxing (3 and/or 9).

IPC 8 full level
F25J 1/02 (2006.01)

CPC (source: EP)
F25B 1/00 (2013.01); **F25J 1/0022** (2013.01); **F25J 1/0052** (2013.01); **F25J 1/0254** (2013.01); **F25J 1/0262** (2013.01); **F25J 1/0274** (2013.01); **F25J 1/0291** (2013.01); **F25J 1/0292** (2013.01); **F25B 2400/23** (2013.01); **F25J 2290/12** (2013.01)

Citation (search report)
See references of WO 2007020252A2

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 LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 102005038266 A1 20070215; AU 2006281407 A1 20070222; AU 2006281407 B2 20100401; EP 1913319 A2 20080423; WO 2007020252 A2 20070222; WO 2007020252 A3 20070518

DOCDB simple family (application)
DE 102005038266 A 20050812; AU 2006281407 A 20060811; EP 06764322 A 20060811; EP 2006065278 W 20060811