

Title (en)

METHOD AND APPARATUS FOR LIQUEFYING A HYDROCARBON-CONTAINING FEED STREAM

Title (de)

VERFAHREN UND VORRICHTUNG ZUR VERFLÜSSIGUNG EINES KOHLENWASSERSTOFFREICHEN STROMES

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR LIQUÉFIER UN COURANT D'HYDROCARBURES

Publication

**EP 2052197 B1 20180516 (EN)**

Application

**EP 07788440 A 20070815**

Priority

- EP 2007058461 W 20070815
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Abstract (en)

[origin: WO2008020044A2] Method and apparatus for liquefying a hydrocarbon stream such as natural gas from a feed stream. The method comprises at least the steps of : (a) providing the feed stream (10); (b) first cooling the feed stream (10) against a first cooling refrigerant being cycled in a first cooling refrigerant circuit (100), thereby obtaining a cooled gas stream (20), wherein the first cooling refrigerant comprises > 90 mol% propane; (c) second cooling the cooled gas stream (20) obtained in step (b) into a liquid against a first mixed refrigerant being cycled in a first mixed refrigerant circuit (200), wherein said second cooling is in two or more heat exchangers (42, 44), at least two of which are operating at different pressures, thereby obtaining a liquefied stream (60); and (d) sub-cooling the liquefied stream (60) obtained in step (c) against a second mixed refrigerant or against a nitrogen refrigerant being cycled in a sub-cooling refrigerant circuit (300), thereby obtaining a sub-cooled hydrocarbon stream (70).

IPC 8 full level

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CPC (source: EP US)

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Cited by

US10480851B2; US10663221B2; US11408676B2; US9441877B2; US10502483B2

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