

Title (en)

A PLANT FOR LIQUEFYING METHANE GAS

Title (de)

ANLAGE ZUR VERFLÜSSIGUNG VON METHANGAS

Title (fr)

INSTALLATION DE LIQUÉFACTION DE GAZ MÉTHANE

Publication

EP 3045849 A2 20160720 (EN)

Application

EP 16151024 A 20160113

Priority

IT BO20150008 A 20150114

Abstract (en)

A plant for liquefying methane gas, comprising: a power section (100) comprising: a molecular filter (2) supplied by a low-pressure methane supply network (1), a compression unit (5) of the methane, connected to the outlet of the filter, destined to supply in outlet a methane main flow (I) having a predetermined temperature and pressure, and heat exchangers (11, 12, 13, 14) for cooling the methane crossing the compression unit (5); a first cryogenic section (200) connected to the outlet of the power section (100) by which it is supplied from the main flow (Æ) and, in turn, supplying the power section (100) with at least a methane recycling flow (Æ 2 , Æ 4 , Æ 7), which supplies the compression unit and which cooperates with the heat exchangers for cooling the compression unit; a second cryogenic section (300) connected to the first cryogenic section (200) in inlet and in outlet by means of channels (19, 22, 24) crossed by the relative methane flows (Æ 1 , Æ 4 , Æ 7), the second cryogenic section (300) being destined to liquefy a predetermined amount of the main flow (Æ); a storage cryogenic section (400) connected to the second cryogenic section (300) so as to receive therefrom the liquefied methane.

IPC 8 full level

F25J 1/00 (2006.01); **F25J 1/02** (2006.01)

CPC (source: EP)

F25J 1/0022 (2013.01); **F25J 1/004** (2013.01); **F25J 1/0045** (2013.01); **F25J 1/0202** (2013.01); **F25J 1/023** (2013.01); **F25J 1/0279** (2013.01); **F25J 1/0281** (2013.01); **F25J 2210/06** (2013.01); **F25J 2220/66** (2013.01)

Cited by

IT201700031616A1; FR3062657A1; WO2018173082A1; WO2018141950A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3045849 A2 20160720; EP 3045849 A3 20160727

DOCDB simple family (application)

EP 16151024 A 20160113