

Title (en)
DEVICE FOR OPERATING A PUMPING DEVICE CONNECTED TO A THERMALLY INSULATING BARRIER OF A TANK USED FOR STORING A LIQUEFIED GAS

Title (de)
VORRICHTUNG ZUM BETREIBEN EINER MIT EINER WÄRMEISOLIERENDEN BARRIERE EINES TANKS VERBUNDENEN PUMPVORRICHTUNG ZUM SPEICHERN EINES VERFLÜSSIGTEN GASES

Title (fr)
PROCÉDÉ DE PILOTAGE D'UN DISPOSITIF DE POMPAGE RACCORDE À UNE BARRIÈRE THERMIQUEMENT ISOLANTE D'UNE CUVE DE STOCKAGE D'UN GAZ LIQUÉFIÉ

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Application
EP 16750984 A 20160722

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Abstract (en)
[origin: WO2017017364A2] The invention relates to a device for operating a pumping device associated with a sealed and thermally insulated tank (2); said tank (2) containing a liquefied gas (8) having a liquid phase and a vapour phase and having a multilayer structure comprising a sealing membrane (7) in contact with the liquefied gas (8) and a thermally insulating barrier (6) arranged between the sealing membrane (7) and a bearing structure (4), said thermally insulating barrier (6) comprising solid matter and a gaseous phase; said pumping device comprising a vacuum pump (16) connected to the thermally insulating barrier (6) so as to place the gaseous phase under a negative relative pressure; said method planning to control the vacuum pump (16) on the basis of a reference pressure P_{c1} and of a measurement of the pressure P_i of the gaseous phase of the thermally insulating barrier (6); said method further comprising: - measuring the temperature T of the liquid phase of the liquefied gas (8); and - determining the reference pressure P_{c1} by means of a relationship $P_{c1} = f_1(T)$; f_1 being an increasing monotonous function.

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