

Title (en)

INSTALLATION FOR COMPENSATING FLUCTUATIONS IN GAS DEMAND IN NATURAL GAS NETWORKS AND THE METHOD OF IMPLEMENTING THIS COMPENSATION

Title (de)

ANLAGE ZUR KOMPENSATION VON SCHWANKUNGEN DES GASBEDARFS IN ERDGASNETZEN UND DIE METHODE ZUR UMSETZUNG DIESER KOMPENSATION

Title (fr)

INSTALLATION DE COMPENSATION DES FLUCTUATIONS DE LA DEMANDE DE GAZ DANS LES RÉSEAUX DE GAZ NATUREL ET LE MODE DE MISE EN OEUVRE DE CETTE COMPENSATION

Publication

EP 3839321 B1 20230329 (EN)

Application

EP 20209644 A 20201124

Priority

PL 43225419 A 20191217

Abstract (en)

[origin: EP3839321A1] The invention solves the problem of energy-free compensation of fluctuations in gas demand in natural gas networks by means of a compression-storage-expansion installation by using a reciprocating compressor (5) driven by gas taken from a medium or high pressure transmission pipeline. The compression-storage-expansion installation may additionally have a gas liquefaction module based on gas expansion (14) and at least one low-temperature tank (17) and a liquid gas evaporator (19). Moreover, it may have measuring-distribution sets for delivering compressed and/or liquefied gas as respectively CNG (12) and/or LNG (20) fuel to the external customers.

IPC 8 full level

F17D 1/04 (2006.01)

CPC (source: EP)

F17D 1/04 (2013.01); **F25J 1/0022** (2013.01); **F25J 1/004** (2013.01); **F25J 1/0201** (2013.01); **F25J 1/0232** (2013.01); **F25J 1/0251** (2013.01); **F25J 2230/30** (2013.01); **F25J 2290/62** (2013.01)

Citation (examination)

- EP 3091176 B1 20190529 - RWE DEUTSCHLAND AG [DE]
- EP 3270033 B1 20190501 - BRAUN FRANZ [DE]

Cited by

EP4170224A1; IT202100026921A1

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

DOCDB simple family (publication)

EP 3839321 A1 20210623; EP 3839321 B1 20230329; PL 240698 B1 20220523; PL 432254 A1 20210628

DOCDB simple family (application)

EP 20209644 A 20201124; PL 43225419 A 20191217