

Title (en)
DEVICE FOR SUPPLYING GAS

Title (de)
VORRICHTUNG ZUR LIEFERUNG VON GAS

Title (fr)
DISPOSITIF POUR FOURNIR DU GAZ

Publication
EP 2815168 A1 20141224 (DE)

Application
EP 13728108 A 20130516

Priority
• US 201261647556 P 20120516
• EP 2013001459 W 20130516

Abstract (en)
[origin: WO2013170964A1] Device for supplying evaporated gas from a storage tank (1) for refrigerated liquefied gas with regulated pressure to a consumer (8), the requirements of which for pressure and mass flow of the gas vary widely, the device having: a motor operated high-pressure pump (3) for the liquefied gas, the driving rotational speed of which determines the mass flow of the pumped liquefied gas; downstream of the high-pressure pump (3) an evaporator (6) for the liquefied gas; downstream of the evaporator (6) a pressure-regulating valve (10) for the evaporated gas, the outlet of which is connected to the consumer (8); a first regulator (11), the measured variable of which is the pressure of the evaporated gas downstream of the pressure regulating valve (10) and the manipulated variable of which acts on the pressure-regulating valve (10); a second regulator (15), the measured variable of which is the pressure of the gas between the high-pressure pump (3) and the pressure-regulating valve (10) and the manipulated variable of which acts on a rotational speed controller (19) for the high-pressure pump (3); and means (17) for combining the manipulated variables of the two regulators (11, 15) in such a manner that the manipulated variable of the first regulator (11) additionally acts on the rotational speed controller (19).

IPC 8 full level
F17C 7/04 (2006.01); **F17C 13/02** (2006.01); **F17C 13/04** (2006.01); **F17C 13/08** (2006.01)

CPC (source: EP US)
F17C 7/04 (2013.01 - EP US); **F17C 13/04** (2013.01 - US); **F17C 2205/0338** (2013.01 - EP US); **F17C 2223/0153** (2013.01 - EP US); **F17C 2227/0135** (2013.01 - EP US); **F17C 2250/0626** (2013.01 - EP US)

Citation (search report)
See references of WO 2013170964A1

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)
WO 2013170964 A1 20131121; CN 104350322 A 20150211; CN 104350322 B 20160518; DK 2815168 T3 20160314; EP 2815168 A1 20141224; EP 2815168 B1 20151209; ES 2559835 T3 20160216; JP 2015517634 A 20150622; JP 6026648 B2 20161116; KR 101648856 B1 20160817; KR 20150016571 A 20150212; PL 2815168 T3 20160729; US 2015121903 A1 20150507; US 9534736 B2 20170103

DOCDB simple family (application)
EP 2013001459 W 20130516; CN 201380026083 A 20130516; DK 13728108 T 20130516; EP 13728108 A 20130516; ES 13728108 T 20130516; JP 2015511950 A 20130516; KR 20147035376 A 20130516; PL 13728108 T 20130516; US 201314400716 A 20130516