

Title (en)
HIGH-PRESSURE GAS DRIVE UNIT

Title (de)
HOCHDRUCK-GAS-ANTRIEBSEINHEIT

Title (fr)
UNITÉ D'ENTRAÎNEMENT À GAZ HAUTE PRESSION

Publication
EP 2744985 A2 20140625 (DE)

Application
EP 12759620 A 20120816

Priority
• AT 11842011 A 20110816
• AT 2012000213 W 20120816

Abstract (en)
[origin: WO2013023231A2] The invention relates to a high-pressure gas drive unit, in which gas (1, 2) can be compressed via a first compressor (9, 10) on the basis of temperature and pressure differences in high-pressure heat exchangers (A, B), wherein the gas (1, 2) is used for driving a turbine and for heating and cooling. Gas (1, 2) and liquid (3, 4) are partially present in the high-pressure heat exchangers (A, B), wherein the compressed gas (1) acts on the liquid (3), which drives the piston (8) of a further compressor (7). When the two high-pressure heat exchangers (A, B) are at equal pressure, the level of the liquid (4) that has risen in the second high-pressure heat exchanger (B) and the level of the liquid (3) in the first high-pressure heat exchanger (A) are balanced by opening a valve (13) in a connecting line between the two high-pressure heat exchangers (A, B).

IPC 8 full level
F01K 3/12 (2006.01); **F03G 6/00** (2006.01); **F03G 7/04** (2006.01)

CPC (source: EP US)
F01K 3/12 (2013.01 - EP US); **F03G 6/00** (2013.01 - EP); **F03G 7/04** (2013.01 - EP); **Y02E 10/46** (2013.01 - EP); **Y02E 20/14** (2013.01 - EP)

Citation (search report)
See references of WO 2013023231A2

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)
WO 2013023231 A2 20130221; **WO 2013023231 A3 20140410**; AT 511077 A4 20120915; AT 511077 B1 20120915; EP 2744985 A2 20140625

DOCDB simple family (application)
AT 2012000213 W 20120816; AT 11842011 A 20110816; EP 12759620 A 20120816