

Title (en)
Gas heat pump system

Title (de)
Gaswärmepumpensystem

Title (fr)
Système de pompe à chaleur à gaz

Publication
EP 2629031 A2 20130821 (EN)

Application
EP 12183190 A 20120905

Priority
KR 20120014758 A 20120214

Abstract (en)
The present invention relates to a gas heat pump system which uses a gas engine (122), and more particularly to a gas heat pump system for driving a compressor (121) to realize a refrigerating cycle by using a gas engine (122). The gas heat pump system includes a refrigerant pipeline, a compressor (121) for compressing refrigerant, a gas engine (122) for driving the compressor (121), a cooling water pipeline (140) provided to cool down the gas engine (122), a chiller (160) having a refrigerant heat exchanger (161) for heat exchange between the refrigerant from the compressor (121) and a fluid, and a high temperature heat exchanger (162) for heat exchange between the fluid having heat exchanged thus and the cooling water.

IPC 8 full level
F25B 27/00 (2006.01); **F25B 13/00** (2006.01)

CPC (source: EP KR)
F25B 27/00 (2013.01 - EP KR); **F25B 29/00** (2013.01 - KR); **F25B 30/02** (2013.01 - KR); **F25B 13/00** (2013.01 - EP); **F25B 2313/003** (2013.01 - EP); **F25B 2313/004** (2013.01 - EP); **F25B 2313/006** (2013.01 - EP); **F25B 2313/0233** (2013.01 - EP); **F25B 2313/0254** (2013.01 - EP); **F25B 2313/02741** (2013.01 - EP); **F25B 2327/001** (2013.01 - EP)

Cited by
EP3334986A4; US10634394B2

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 2629031 A2 20130821; **EP 2629031 A3 20180711**; **EP 2629031 B1 20221102**; KR 101988309 B1 20190612; KR 20130093297 A 20130822

DOCDB simple family (application)
EP 12183190 A 20120905; KR 20120014758 A 20120214