

Title (en)
HEAT PUMP

Title (de)
WÄRMEPUMPE

Title (fr)
POMPE À CHALEUR

Publication
EP 3252402 B1 20220302 (EN)

Application
EP 16743317 A 20160126

Priority
• JP 2015014140 A 20150128
• JP 2016052069 W 20160126

Abstract (en)
[origin: EP3252402A1] A heat pump has a compressor, a heat source-side heat exchanger, a receiver, at least one expansion valve, and a utilization-side heat exchanger, and is configured to perform a pump-down operation for recovering a liquid refrigerant into the receiver during a predetermined stopping time. The heat pump is configured to determine whether refrigerant leakage has occurred or not, by detecting an amount of the liquid refrigerant in the receiver in the pump-down operation.

IPC 8 full level
F25B 49/02 (2006.01); **F25B 1/00** (2006.01); **F25B 13/00** (2006.01); **F25B 40/02** (2006.01)

CPC (source: EP US)
F25B 1/00 (2013.01 - EP US); **F25B 13/00** (2013.01 - EP); **F25B 40/02** (2013.01 - EP); **F25B 41/20** (2021.01 - EP US); **F25B 41/24** (2021.01 - EP US); **F25B 49/02** (2013.01 - EP); **F25B 2327/00** (2013.01 - EP); **F25B 2400/16** (2013.01 - EP); **F25B 2400/19** (2013.01 - EP); **F25B 2500/222** (2013.01 - EP); **F25B 2700/1931** (2013.01 - EP); **F25B 2700/1933** (2013.01 - EP); **F25B 2700/21151** (2013.01 - EP)

Cited by
CN108344108A; EP4286773A1; US11441820B2; EP3647684A1; US11525612B2; WO2023084127A1

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)
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