

Title (en)
Refrigerant compressor

Title (de)
Kältemittelverdichter

Title (fr)
Compresseur de réfrigérant

Publication
EP 1710435 B2 20230607 (DE)

Application
EP 06005929 A 20060323

Priority
DE 102005016433 A 20050405

Abstract (en)
[origin: EP1710435A1] The compressor has a cylinder unit with a piston that moves in an oscillating manner in a cylinder housing, and a cylinder head with an inlet chamber. A switching valve interrupts an inlet flow of the cylinder unit. A control (130) activates the switching valve for operating the compressor in a lower part-load range. The control operates the valve in successive switching intervals which are shorter than a shortest time period after which a temperature of an evaporator (32) in an operating refrigerating system has risen during an interruption of the inlet flow.

IPC 8 full level
F04B 49/03 (2006.01); **F04B 27/053** (2006.01)

CPC (source: EP US)
F04B 7/0076 (2013.01 - EP); **F04B 27/053** (2013.01 - EP); **F04B 27/067** (2013.01 - EP); **F04B 27/24** (2013.01 - EP); **F04B 35/01** (2013.01 - EP); **F04B 49/225** (2013.01 - EP US); **F25B 41/22** (2021.01 - EP US); **F04B 2201/06011** (2013.01 - EP US); **F25B 2600/2515** (2013.01 - EP US); **F25B 2600/2521** (2013.01 - EP US)

Cited by
EP2391826A4; DE102012107183B4; EP4116586A1; US9982928B2; WO2014124898A1; DE102012107183A1; US9746227B2; WO2021160672A1

Designated contracting state (EPC)
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