

Title (en)

Stepped scroll compressor with staged capacity modulation

Title (de)

Abgestufter Spiralverdichter mit Kapazitätsmodulation

Title (fr)

Compresseur à spirale à gradins avec modulation de capacité étagée

Publication

**EP 2025939 A3 20100811 (EN)**

Application

**EP 08252231 A 20080628**

Priority

US 83334207 A 20070803

Abstract (en)

[origin: EP2025939A2] A scroll compressor has a stepped wrap such that there is a greater height outer portion (38;40) and a lesser height more central portion (42;44). Bypass ports (36) are associated with the transition zone between the higher and lesser height portions. By providing the bypass port in a stepped scroll compressor, greater reductions in capacity can be achieved than have been provided in the prior art.

IPC 8 full level

**F04C 18/02** (2006.01); **F04C 28/10** (2006.01); **F04C 28/26** (2006.01)

CPC (source: EP KR US)

**F04C 18/02** (2013.01 - KR); **F04C 18/0215** (2013.01 - EP US); **F04C 18/0261** (2013.01 - EP US); **F04C 18/0276** (2013.01 - EP US); **F04C 18/16** (2013.01 - KR); **F04C 28/10** (2013.01 - EP US); **F04C 28/26** (2013.01 - EP US); **F04C 2270/58** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**EP 2025939 A2 20090218**; **EP 2025939 A3 20100811**; CN 101358592 A 20090204; JP 2009041564 A 20090226; KR 20090014091 A 20090206; US 2009035167 A1 20090205

DOCDB simple family (application)

**EP 08252231 A 20080628**; CN 200810134099 A 20080729; JP 2008199294 A 20080801; KR 20080058690 A 20080621; US 83334207 A 20070803