

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 A2 20090218 (EN)

Application

EP 08252231 A 20080628

Priority

US 83334207 A 20070803

Abstract (en)

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 (applicant)

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Designated contracting state (EPC)

BE DE ES FR GB IT

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