

Title (en)

Dual scroll machine with anti-thrust ring

Title (de)

Doppel- Spiralverdichter mit einem anti-schub Ring

Title (fr)

Double machine à spirales avec anneau anti-poussée

Publication

**EP 1701040 A2 20060913 (EN)**

Application

**EP 05254846 A 20050803**

Priority

US 7515405 A 20050308

Abstract (en)

A compressor system includes a pair of compressors located in a common shell. A common drive shaft drives both compressors and the drive shaft is powered by a single motor. One or both of the compressors can be equipped with a pulse width modulated capacity control system and a vapor injection system. When one compressor is equipped with these systems, the capacity can be varied between 50% and 110%. When both compressors are equipped with these systems, the capacity can be varied between 0% and 120%. When operating in the reduced capacity mode, a biasing member positions the non-orbiting scroll and an anti-thrust ring (400) positions the orbiting scroll to reduce noise created during the operation of the compressor.

IPC 8 full level

**F04C 18/02** (2006.01); **F04C 27/00** (2006.01)

CPC (source: EP KR US)

**F04C 18/0215** (2013.01 - EP KR US); **F04C 27/005** (2013.01 - EP KR US); **F04C 29/0035** (2013.01 - KR); **F04C 2210/26** (2013.01 - KR);  
**F04C 2230/602** (2013.01 - EP KR US); **F04C 2240/40** (2013.01 - KR); **F04C 2240/50** (2013.01 - EP KR US); **Y10S 415/00** (2013.01 - KR);  
**Y10S 417/00** (2013.01 - KR)

Citation (applicant)

- US 5156539 A 19921020 - ANDERSON GARY J [US], et al
- US 4877382 A 19891031 - CAILLAT JEAN-LUC M [US], et al
- US 5102316 A 19920407 - CAILLAT JEAN-LUC [US], et al

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DOCDB simple family (application)

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KR 20050082525 A 20050906; TW 94125393 A 20050727; US 7515405 A 20050308