

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 A3 20061115 (EN)

Application
EP 05254846 A 20050803

Priority
US 7515405 A 20050308

Abstract (en)
[origin: EP1701040A2] 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 (search report)

- [Y] EP 1489308 A2 20041222 - COPELAND CORP [US]
- [A] US 6814554 B1 20041109 - CHANG LUNG-TSAI [TW], et al
- [XY] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 10 31 August 1999 (1999-08-31)
- [X] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 10 31 October 1996 (1996-10-31)
- [X] PATENT ABSTRACTS OF JAPAN vol. 014, no. 416 (M - 1021) 7 September 1990 (1990-09-07)
- [X] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 02 31 March 1995 (1995-03-31)

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AL BA HR MK YU

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EP 05254846 A 20050803; AU 2005203754 A 20050819; BR PI0503794 A 20050915; CN 200510098125 A 20050907; KR 20050082525 A 20050906; TW 94125393 A 20050727; US 7515405 A 20050308