Title (en)

Rotary compressor unit and method of controlling operation thereof

Title (de)

Drehkompressoreneinheit und Verfahren zur Steuerung von deren Betrieb

Title (fr)

Unité de compresseur rotatif et son procédé de contrôle de fonctionnement

Publication

EP 1975415 A2 20081001 (EN)

Application

EP 08002967 A 20080218

Priority

JP 2007095584 A 20070330

Abstract (en)

The compressor unit having at least two compressors, for example a low pressure stage compressor (11) and a high pressure stage compressor (12) connected in series, of which the low pressure sage compressor (11) and high pressure stage compressor (12) are driven by driving devices (13 and 14) respectively separately or driven by a single driving device (41) via variable speed gears (43 and 44) respectively connected to each of the compressors, and rotation speed of the low pressure stage compressor (11) and that of the high pressure stage compressor (12) are controlled independently in accordance with various operating conditions of the compressor unit so that optimal load balancing of the compressors (11 and 12) is always achieved.

IPC 8 full level

F04C 28/08 (2006.01); **F04C 18/12** (2006.01); **F04C 23/00** (2006.01); **F04C 28/02** (2006.01)

CPC (source: EP US)

F04C 23/001 (2013.01 - EP US); **F04C 28/02** (2013.01 - EP US); **F04C 28/08** (2013.01 - EP US); F04C 18/123 (2013.01 - EP US); F04C 2270/051 (2013.01 - EP US); F04C 2270/0525 (2013.01 - EP US); F04C 2270/18 (2013.01 - EP US)

Citation (applicant)

- JP H01193089 A 19890803 - TOSHIBA CORP
- JP H046349 A 19920110 - TOSHIBA CORP
- JP 2002039079 A 20020206 - ANEST IWATA CORP
- JP 2004360464 A 20041224 - HITACHI IND EQUIPMENT SYS

Cited by

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Designated contracting state (EPC)

BE

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 08002967 A 20080218; CN 200810083020 A 20080318; JP 2007095584 A 20070330; US 5890208 A 20080331