

Title (en)

Rotary compressor unit and method of controlling operation thereof

Title (de)

Drehkompressoreinheit und Verfahren zur Steuerung von deren Betrieb

Title (fr)

Unité de compresseur rotatif et son procédé de contrôle de fonctionnement

Publication

**EP 1975415 A3 20120523 (EN)**

Application

**EP 08002967 A 20080218**

Priority

JP 2007095584 A 20070330

Abstract (en)

[origin: EP1975415A2] 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 stage 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 (search report)

- [X1] DE 9306559 U1 19930701
- [X1] WO 0131202 A1 20010503 - ATLAS COPCO AIRPOWER NV [BE], et al
- [X1] WO 0225115 A1 20020328 - COMPAIR UK LTD [GB], et al
- [X1] JP H07158576 A 19950620 - KOBE STEEL LTD
- [X1] US 6056510 A 20000502 - MIURA ATSUYUKI [JP], et al

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BE1018096A3

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 1975415 A2 20081001**; **EP 1975415 A3 20120523**; CN 101275564 A 20081001; JP 2008255799 A 20081023; JP 5071967 B2 20121114; US 2008240953 A1 20081002

DOCDB simple family (application)

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