Title (en)

Air compressing device

Title (de)

Luftverdichtende Vorrichtung

Title (fr)

Dispositif de compression d'air

Publication

EP 2703646 A3 20180418 (EN)

Application

EP 13181791 A 20130827

Priority

JP 2012189389 A 20120830

Abstract (en)

[origin: EP2703646A2] Provided is an air compressing device that can suppress degradation of oil, realize reliable operation even under humid environment, and further prevent efficiency when generating compressed air from being reduced. An oil recovery unit 17 is configured to have guided thereto compressed air that was compressed along with oil in a compressor 14, separate the oil from the compressed air, and recover the oil in an oil tank 17a. A dehumidifier 20 subjects the compressed air from which oil has been separated to dehumidification. A compressed air delivery unit 22 delivers the dehumidified compressed air to an air reservoir 23 for accumulating compressed air. A changeover valve 21 is provided on a path that communicates the dehumidifier 20 with the compressed air delivery unit 22. A communication path 35 communicates the changeover valve 21 and the suction side of the compressor 14. The changeover valve 21 is switched so that all of the dehumidified compressed air is supplied to either the compressed air delivery unit 22 or the communication path 35.

IPC 8 full level

F04B 39/02 (2006.01); **F04B 39/12** (2006.01); **F04B 39/16** (2006.01); **F04B 41/02** (2006.01)

CPC (source: EP)

F04B 39/02 (2013.01); **F04B 39/0207** (2013.01); **F04B 39/123** (2013.01); **F04B 39/16** (2013.01); **F04B 41/02** (2013.01)

Citation (search report)

- [YD] JP 2006226245 A 20060831 - MITSUBISHI HEAVY IND LTD
- [Y] JP H08193578 A 19960730 - MITSUBISHI HEAVY IND LTD

Cited by

US10788039B2; TWI779460B

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2703646 A2 20140305; **EP 2703646 A3 20180418**; **EP 2703646 B1 20190515**; CN 103671039 A 20140326; CN 103671039 B 20160928; JP 2014047652 A 20140317; JP 6009278 B2 20161019; TW 201411067 A 20140316; TW I575199 B 20170321

DOCDB simple family (application)

EP 13181791 A 20130827; CN 201310373241 A 20130823; JP 2012189389 A 20120830; TW 102127996 A 20130805