Title (en)

COMPRESSOR

Title (de)

KONDENSATOR

Title (fr)

CONDENSEUR

Publication

EP 2886864 A1 20150624 (EN)

Application

EP 13823006 A 20130723

Priority

- JP 2012165128 A 20120725
- JP 2012288002 A 20121228
- JP 2013004489 W 20130723

Abstract (en)

An area of an inlet end (51) of the discharge port (50) is Ai; a peripheral length of the inlet end (51) is Li; and a hydraulic diameter of the inlet end (51) is defined by Di = 4(Ai/Li). A peripheral length of the outlet end (52) of the discharge port (50) is Lo; a reference lift amount of the valve body (61) is ho; a cross sectional area of an outlet side flow path (70) formed between the outlet end (52) of the discharge port (50) and the valve body (61) is defined by Ao = Lo × ho; and a hydraulic diameter of the outlet side flow path (70) is defined by Do = 4(Ao/2Lo). A ratio (Do/Di) of the hydraulic diameter Do of the outlet side flow path (70) to the hydraulic diameter Di of the inlet end (51) of the discharge port (50) is 0.5 or less. As a result, the lift amount of the valve body (61) is optimized, thereby improving the efficiency of the compressor.

IPC 8 full level

F04B 39/10 (2006.01); **F04B 53/10** (2006.01); **F04C 18/32** (2006.01); **F04C 29/12** (2006.01)

CPC (source: EP US)

F04B 39/10 (2013.01 - EP US); **F04B 39/108** (2013.01 - EP US); **F04B 39/1086** (2013.01 - US); **F04B 53/1085** (2013.01 - EP US); **F04C 29/12** (2013.01 - US); **F04C 29/128** (2013.01 - EP US); F04B 2201/06 (2013.01 - US); F04C 18/322 (2013.01 - EP US); F04C 18/3564 (2013.01 - EP US); F04C 2250/102 (2013.01 - US); Y10T 137/7891 (2015.04 - EP US)

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)

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