

Title (en)  
CONDENSER

Title (de)  
KONDENSATOR

Title (fr)  
CONDENSEUR

Publication  
**EP 2886864 A4 20160921 (EN)**

Application  
**EP 13823006 A 20130723**

Priority  
• JP 2012165128 A 20120725  
• JP 2012288002 A 20121228  
• JP 2013004489 W 20130723

Abstract (en)  
[origin: EP2886864A1] An area of an inlet end (51) of the discharge port (50) is  $A_i$ ; a peripheral length of the inlet end (51) is  $L_i$ ; and a hydraulic diameter of the inlet end (51) is defined by  $D_i = 4(A_i/L_i)$ . A peripheral length of the outlet end (52) of the discharge port (50) is  $L_o$ ; a reference lift amount of the valve body (61) is  $h_o$ ; 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  $A_o = L_o \times h_o$ ; and a hydraulic diameter of the outlet side flow path (70) is defined by  $D_o = 4(A_o/2L_o)$ . A ratio ( $D_o/D_i$ ) of the hydraulic diameter  $D_o$  of the outlet side flow path (70) to the hydraulic diameter  $D_i$  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)

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Citation (search report)  
• [A] EP 2441960 A1 20120418 - MITSUBISHI ELECTRIC CORP [JP]  
• [A] EP 1160447 A2 20011205 - TOYODA AUTOMATIC LOOM WORKS [JP]  
• [A] EP 0926345 A2 19990630 - SANDEN CORP [JP]  
• [A] JP 2011043084 A 20110303 - FUJITSU GENERAL LTD  
• See references of WO 2014017081A1

Designated contracting state (EPC)  
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