

Title (en)
COMPRESSOR

Title (de)
VERDICHTER

Title (fr)
COMPRESSEUR

Publication
EP 2012011 A4 20100512 (EN)

Application
EP 07741096 A 20070405

Priority
• JP 2007057660 W 20070405
• JP 2006117934 A 20060421

Abstract (en)
[origin: EP2012011A1] A compressor having a cylinder bore where fluid is compressed, a valve plate for partitioning the cylinder bore and a suction chamber, a suction hole provided in the valve plate and communicating the cylinder bore and the suction chamber, and a suction reed valve for opening and closing the suction hole and caused, when the valve closes the suction hole, to be in contact with a suction reed valve seal section of the valve plate. The suction reed valve seal section is located outside a suction hole-provided region. A suction reed valve support section, with which the suction reed valve can be in contact when the suction reed valve is closed, is provided also in the suction hole-provided region of the valve plate, and a valve function is provided between the outer periphery portion of the suction reed valve contact section of the suction reed valve support section and the suction reed valve. A through hole is provided in a part inside the portion where the valve function of the reed valve is provided. In the compressor, pressure loss at a suction valve portion in a suction stroke is reduced to improve suction efficiency etc. and vibration of the reed valve is suppressed by the reduction in pressure loss.

IPC 8 full level
F04B 39/10 (2006.01)

CPC (source: EP KR US)
F04B 27/1009 (2013.01 - EP KR US); **F04B 27/1045** (2013.01 - KR); **F04B 39/0027** (2013.01 - KR); **F04B 39/1066** (2013.01 - EP KR US); **F04B 39/1073** (2013.01 - KR)

Citation (search report)
• [X] WO 2005071266 A1 20050804 - BEHR GMBH & CO KG [DE], et al
• [X] GB 2161583 A 19860115 - PRESTCOLD LTD
• [X] US 2004076535 A1 20040422 - IZAWA RYOSUKE [JP], et al
• [X] US 4976284 A 19901211 - HOVARTER LEN A [US]
• See also references of WO 2007123002A1

Designated contracting state (EPC)
DE FR HU

DOCDB simple family (publication)
EP 2012011 A1 20090107; EP 2012011 A4 20100512; CN 101421516 A 20090429; JP 2007291881 A 20071108; KR 20080106988 A 20081209; US 2009081060 A1 20090326; WO 2007123002 A1 20071101

DOCDB simple family (application)
EP 07741096 A 20070405; CN 200780013286 A 20070405; JP 2006117934 A 20060421; JP 2007057660 W 20070405; KR 20087027780 A 20081113; US 29794107 A 20070405