

Title (en)
Variable displacement compressor

Title (de)
Kompressor mit variabler Verdrängung

Title (fr)
Compresseur à déplacement variable

Publication
EP 2826995 A3 20150902 (EN)

Application
EP 14177203 A 20140716

Priority
• JP 2013149005 A 20130718
• JP 2014006566 A 20140117

Abstract (en)
[origin: EP2826995A2] Variable displacement compressor comprising: a cylinder block (1) having a plurality of cylinder bores (1a); a front housing (3) having a crank chamber (9) formed therein; a rear housing (5) having a suction chamber (5a) and a discharge chamber (5b) formed therein; a plurality of pistons (25) housed in the cylinder bores so as to reciprocate and defining a compression chamber (31); and driving means (4) provided in the crank chamber. The rear housing (5) has an annular wall (5m) that separates the suction chamber and the discharge chamber, the discharge chamber being formed between the annular wall and an outer peripheral wall of the rear housing so as to extend in the circumferential direction and annularly surround the suction chamber. A muffler (100) is provided between the discharge chamber and an outlet port (1h), the muffler having a muffler chamber (110), an inlet channel (101) and an outlet channel (102a). The muffler chamber (110) has a first end surface (111) on one end side of the muffler chamber, a second end surface (112) on the other end side of the muffler chamber, and an inner peripheral surface (113) having a cylindrical shape that is positioned between the first end surface and the second end surface and extends from the discharge chamber toward the other end side. The muffler chamber (110) is positioned between the annular wall and the outer peripheral wall, the inlet channel (101) opens in the first end surface (111), and the outlet channel (102a) opens in the inner peripheral surface (113) at a position spaced apart from the second end surface (112).

IPC 8 full level
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CPC (source: EP US)
F04B 27/1036 (2013.01 - EP US); **F04B 39/0061** (2013.01 - EP US); **F04B 53/003** (2013.01 - US)

Citation (search report)
• [X1] JP 2013002353 A 20130107 - SANDEN CORP
• [A] JP 2002250279 A 20020906 - ZEXEL VALEO CLIMATE CONTR CORP
• [AD] JP H09287564 A 19971104 - ZEXEL CORP
• [A] US 6705843 B1 20040316 - KUO FWUTSAI J [US]

Cited by
CN111326137A

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 2826995 A2 20150121; **EP 2826995 A3 20150902**; BR 102014017590 A2 20151006; CN 104295466 A 20150121;
JP 2015038344 A 20150226; JP 5920367 B2 20160518; KR 20150010604 A 20150128; US 2015023812 A1 20150122

DOCDB simple family (application)
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