

Title (en)  
Oil separation structure in compressor

Title (de)  
Ölabscheidungsanordnung für einen Kompressor

Title (fr)  
Structure de séparation de l'huile dans un compresseur

Publication  
**EP 1811174 A3 20110202 (EN)**

Application  
**EP 07100878 A 20070122**

Priority  
JP 2006013690 A 20060123

Abstract (en)  
[origin: EP1811174A2] A muffler forming member (33) defines a muffler chamber (42). Refrigerant discharged from a cylinder bore (20) is sent to the muffler chamber (42). The muffler forming member (33) is coupled to a circumferential surface (110) of a housing (11) of a compressor (10). An oil separation chamber (36) is defined in a discharge pressure zone (132, 40, 36, 42) of the compressor (10). The oil separation chamber (36) separates the oil from the refrigerant discharged from the cylinder bore (20). The oil separation chamber (36) extends into both the muffler forming member (33) and the housing (11). The oil separation chamber (36) has a refrigerant inlet (403) through which the refrigerant flows into the oil separation chamber (36). The refrigerant inlet (403) is formed in the muffler forming member (33). Therefore, the oil separation chamber (36) is prolonged in the direction from the muffler forming member toward the housing (11), thereby improving the oil separation performance (Fig. 3).

IPC 8 full level  
**F04B 27/10** (2006.01); **F04B 39/00** (2006.01); **F04B 39/04** (2006.01); **F04B 39/16** (2006.01)

CPC (source: EP KR US)  
**F04B 27/1081** (2013.01 - KR); **F04B 27/109** (2013.01 - EP KR US); **F04B 39/0061** (2013.01 - EP KR US); **F04B 39/0072** (2013.01 - EP KR US); **F04B 39/04** (2013.01 - EP KR US); **F04B 39/16** (2013.01 - EP KR US); **F25B 43/02** (2013.01 - KR); **F05B 2210/12** (2013.01 - KR); **F05B 2210/14** (2013.01 - KR); **F05B 2260/962** (2013.01 - KR); **Y10S 417/00** (2013.01 - KR)

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Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**EP 1811174 A2 20070725; EP 1811174 A3 20110202**; CN 100585179 C 20100127; CN 101092951 A 20071226; JP 2007192200 A 20070802; JP 4730107 B2 20110720; KR 100796543 B1 20080121; KR 20070077432 A 20070726; US 2007177991 A1 20070802

DOCDB simple family (application)  
**EP 07100878 A 20070122**; CN 200710138862 A 20070123; JP 2006013690 A 20060123; KR 20060106354 A 20061031; US 65685807 A 20070122