

Title (en)
COMPRESSOR HAVING SUCTION THROTTLE VALVE

Title (de)
VERDICHTER MIT SAUGDROSSELVENTIL

Title (fr)
COMPRESSEUR AYANT UN ROBINET D'ÉTRANGLEMENT DE LA PRESSION D'ASPIRATION

Publication
EP 2524138 A1 20121121 (EN)

Application
EP 11703049 A 20110112

Priority
• JP 2010003650 A 20100112
• JP 2011000108 W 20110112

Abstract (en)
[origin: WO2011086908A1] Refrigerant compressor has a suction throttle valve (60) provided in the midway of the suction passage (36) for guiding the refrigerant suctioned from the suction inlet (35) to the suction chamber (33). The suction throttle valve (60) adjusts the passage area of the refrigerant passing through the suction passage (36) by moving in a direction substantially perpendicular to the suction passage (36). High pressure oil separated in an oil separator provided in the discharge area is guided to one side (62a) of the suction throttle valve (60). Refrigerant from the suction area is guided to the other end side (62b) of the suction throttle valve (60). Furthermore, a spring (63) biases the suction throttle valve towards the one end side (62a), thereby reducing the passage area of the suction passage (36).

IPC 8 full level
F04B 27/10 (2006.01)

CPC (source: EP)
F04B 27/1009 (2013.01); **F04B 2205/171** (2013.01)

Citation (search report)
See references of WO 2011086908A1

Citation (examination)
US 4905477 A 19900306 - KAZUHIKO TAKAI [JP]

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

DOCDB simple family (publication)
WO 2011086908 A1 20110721; EP 2524138 A1 20121121; JP 2011144688 A 20110728; JP 5584476 B2 20140903

DOCDB simple family (application)
JP 2011000108 W 20110112; EP 11703049 A 20110112; JP 2010003650 A 20100112