

Title (en)
VARIABLE-CAPACITY COMPRESSOR CONTROL VALVE

Title (de)
KOMPRESSORREGELVENTIL MIT VARIABLER KAPAZITÄT

Title (fr)
SOUPAPE DE COMMANDE DE COMPRESSEUR À CAPACITÉ VARIABLE

Publication
EP 3187730 B1 20180704 (EN)

Application
EP 16195716 A 20161026

Priority
JP 2015244996 A 20151216

Abstract (en)
[origin: EP3187730A1] Provided is a variable-capacity compressor control valve where the size of a plunger can be reduced, the machining and assembly process can be simplified, weight reduction can be achieved, and cost reduction can also be achieved, for example. The plunger has a slit through which a valve element is assembled to the plunger by being inserted from a lateral side. The slit serves as a flow path for releasing the pressure P_c in the crank chamber to the suction chamber of the compressor from the P_s inlet/outlet port when the sub valve element has opened the in-valve release passage.

IPC 8 full level
F04B 27/18 (2006.01)

CPC (source: CN EP KR US)
F04B 27/14 (2013.01 - KR); **F04B 27/1804** (2013.01 - CN EP US); **F04B 39/08** (2013.01 - KR); **F04B 39/10** (2013.01 - KR);
F04B 2027/1813 (2013.01 - CN EP US); **F04B 2027/1827** (2013.01 - CN EP US); **F04B 2027/1845** (2013.01 - US);
F04B 2027/1854 (2013.01 - EP US); **F04B 2027/1859** (2013.01 - CN EP US)

Cited by
EP3751139A4

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)
EP 3187730 A1 20170705; EP 3187730 B1 20180704; CN 106884774 A 20170623; CN 106884774 B 20190924; JP 2017110542 A 20170622;
JP 6383720 B2 20180829; KR 20170072124 A 20170626; US 2017175726 A1 20170622

DOCDB simple family (application)
EP 16195716 A 20161026; CN 201611138128 A 20161212; JP 2015244996 A 20151216; KR 20160159139 A 20161128;
US 201615373750 A 20161209