

Title (en)
DOUBLE-ACTION REFRIGERANT COMPRESSOR

Title (de)
DOPPELTWIRKENDER KÄLTEMITTELKOMPRESSOR

Title (fr)
COMPRESSEUR FRIGORIFIQUE À DOUBLE ACTION

Publication
EP 2661559 A1 20131113 (DE)

Application
EP 12700943 A 20120105

Priority
• DE 102011008086 A 20110107
• EP 2012050150 W 20120105

Abstract (en)
[origin: WO2012093160A1] The refrigeration compressor is a double-acting refrigeration compressor, comprising a piston (7), which is freely guided on two cylinder sections (41, 42) that are opposite each other and that cannot be moved relative to each other, and which has a flow channel (8) that extends internally through the piston (7), wherein each cylinder section (41, 42) and the piston (7) have at least one check valve (10, 11, 12) along the flow channel (8), wherein the check valves (10, 11, 12) are arranged in such a way that the flow directions thereof are oriented in the same direction.

IPC 8 full level
F04B 25/02 (2006.01); **F04B 31/00** (2006.01); **F04B 39/00** (2006.01); **F04B 53/12** (2006.01); **F04B 53/14** (2006.01)

CPC (source: EP RU US)
F04B 1/02 (2013.01 - US); **F04B 5/00** (2013.01 - US); **F04B 5/02** (2013.01 - US); **F04B 17/04** (2013.01 - US); **F04B 17/046** (2013.01 - US); **F04B 25/005** (2013.01 - US); **F04B 25/02** (2013.01 - EP RU US); **F04B 25/04** (2013.01 - US); **F04B 27/02** (2013.01 - US); **F04B 31/00** (2013.01 - EP US); **F04B 35/045** (2013.01 - US); **F04B 39/0016** (2013.01 - EP US); **F04B 53/12** (2013.01 - US); **F04B 53/122** (2013.01 - EP US); **F04B 53/148** (2013.01 - EP US)

Citation (search report)
See references of WO 2012093160A1

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 2012093160 A1 20120712; CN 103282656 A 20130904; CN 103282656 B 20160518; DE 102011008086 A1 20120712; EP 2661559 A1 20131113; EP 2661559 B1 20180919; JP 2014501884 A 20140123; JP 5976673 B2 20160824; RU 2013136686 A 20150220; RU 2615547 C2 20170405; TW 201235564 A 20120901; TW I589777 B 20170701; US 2013287611 A1 20131031; US 2017211557 A1 20170727; US 9777717 B2 20171003

DOCDB simple family (application)
EP 2012050150 W 20120105; CN 201280004500 A 20120105; DE 102011008086 A 20110107; EP 12700943 A 20120105; JP 2013547860 A 20120105; RU 2013136686 A 20120105; TW 100149510 A 20111229; US 201213977823 A 20120105; US 201715426533 A 20170207