

Title (en)  
LINEAR COMPRESSOR AND REFRIGERATOR INCLUDING A LINEAR COMPRESSOR

Title (de)  
LINEARVERDICHTER UND KÜHLSCHRANK MIT EINEM LINEARVERDICHTER

Title (fr)  
COMPRESSEUR LINÉAIRE ET RÉFRIGÉRATEUR COMPRENANT UN COMPRESSEUR LINÉAIRE

Publication  
**EP 2960508 A2 20151230 (EN)**

Application  
**EP 15165763 A 20150429**

Priority  
KR 20140078763 A 20140626

Abstract (en)  
A linear compressor and a refrigerator including a linear compressor is provided. The linear compressor may include a shell including a suction inlet, a cylinder provided in the shell to define a compression space for a refrigerant, a piston reciprocated in an axial direction within the cylinder, a discharge valve provided at one side of the cylinder to selectively discharge the refrigerant compressed in the compression space, at least one nozzle disposed in the cylinder to introduce at least a portion of the refrigerant discharged through the discharge valve into the cylinder, and at least one filter provided in the shell. The at least one filter may be disposed in a refrigerant passage defined from the suction inlet to the at least one nozzle via the discharge valve. Foreign substances or oil contained in the refrigerant introduced into the at least one nozzle may be filtered while passing through the at least one filter.

IPC 8 full level  
**F04B 35/04** (2006.01); **F04B 37/00** (2006.01); **F04B 39/00** (2006.01); **F04B 39/02** (2006.01); **F04B 39/04** (2006.01); **F04B 39/12** (2006.01); **F04B 39/16** (2006.01); **F04B 53/10** (2006.01); **F04B 53/14** (2006.01); **F04B 53/20** (2006.01); **F25B 43/00** (2006.01); **F25B 43/02** (2006.01)

CPC (source: EP US)  
**F04B 35/045** (2013.01 - EP US); **F04B 37/00** (2013.01 - US); **F04B 39/0027** (2013.01 - EP US); **F04B 39/0038** (2013.01 - EP US); **F04B 39/0088** (2013.01 - US); **F04B 39/0292** (2013.01 - EP US); **F04B 39/041** (2013.01 - EP US); **F04B 39/12** (2013.01 - US); **F04B 39/122** (2013.01 - EP US); **F04B 39/16** (2013.01 - US); **F04B 53/10** (2013.01 - US); **F04B 53/14** (2013.01 - US); **F04B 53/20** (2013.01 - EP US); **F25B 43/003** (2013.01 - US); **F25B 43/02** (2013.01 - US)

Citation (applicant)  
KR 101307688 B1 20130912

Cited by  
EP4345311A1; EP3800351A1; US11434887B2

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 2960508 A2 20151230**; **EP 2960508 A3 20160224**; BR 102015015403 A2 20160628; BR 102015015403 B1 20220614; CN 105298794 A 20160203; CN 105298794 B 20171201; JP 2016008610 A 20160118; JP 6594675 B2 20191023; KR 102201629 B1 20210112; KR 20160001056 A 20160106; US 2015377531 A1 20151231

DOCDB simple family (application)  
**EP 15165763 A 20150429**; BR 102015015403 A 20150625; CN 201510187731 A 20150420; JP 2015126203 A 20150624; KR 20140078763 A 20140626; US 201514661228 A 20150318