

Title (en)
Linear compressor

Title (de)
Linearverdichter

Title (fr)
Compresseur linéaire

Publication
EP 1785626 A1 20070516 (EN)

Application
EP 06017242 A 20060818

Priority
KR 20050108699 A 20051114

Abstract (en)
Disclosed herein is a linear compressor in which a piston reciprocally moves in a cylinder upon receiving a reciprocating drive force of a linear motor to compress working-fluid, for example, refrigerant, received in the cylinder. The linear compressor comprises a piston (80) adapted to reciprocally move in a cylinder (70), the piston (80) being internally formed with a suction path (81), and a suction valve (84) inserted in the suction path (81) of the piston (80) to move relative to the suction path (81), the suction valve performing opening/closing operations as it moves relative to the piston (80) when the piston (80) reciprocally moves. With this configuration, the suction valve (84) always exhibits an even stroke, achieving an improvement in response and durability and minimizing vibration and noise due to the opening/closing operations thereof.

IPC 8 full level
F04B 35/04 (2006.01); **F04B 39/10** (2006.01)

CPC (source: EP US)
F04B 35/045 (2013.01 - EP US); **F04B 39/0016** (2013.01 - EP US)

Citation (search report)

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- [X] US 2004247466 A1 20041209 - LEE JONG KOO [KR], et al
- [A] US 2003165391 A1 20030904 - KIM HYUNG-JIN [KR]

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DE102018123258B3

Designated contracting state (EPC)
DE FR GB

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1785626 A1 20070516; EP 1785626 B1 20101013; CN 1966979 A 20070523; DE 602006017489 D1 20101125; JP 2007138920 A 20070607; JP 5073989 B2 20121114; US 2007110600 A1 20070517

DOCDB simple family (application)
EP 06017242 A 20060818; CN 200610111073 A 20060818; DE 602006017489 T 20060818; JP 2006222350 A 20060817; US 47000506 A 20060905