

Title (en)
Vacuum Pump

Title (de)
Vakuumpumpe

Title (fr)
Pompe à vide

Publication
EP 1170505 A3 20030820 (EN)

Application
EP 01116244 A 20010704

Priority
JP 2000201887 A 20000704

Abstract (en)
[origin: EP1170505A2] A suction check valve 18a and a discharge check valve 20a are disposed to a top end plate of a cylinder 14. A suction check valve 18b and a discharge check valve 20b are disposed to a bottom end plate in the like manner. The suction check valves 18a and 18b are joined together into one hose for connection to an indoor unit B. A piston 15 divides an interior of the cylinder 14 into two chambers, an upper chamber 14A and a lower chamber 14B. The upper chamber 14A and the lower chamber 14B alternately suction air from the indoor unit B through the suction check valves 18a and 18b, and discharge the suctioned air to outer space through the discharge check valves 20a and 20b, when the piston 15 is reciprocated. Thus, the indoor unit B is decompressed in preparation for charging refrigerant gas. <IMAGE>

IPC 1-7
F04B 33/00

IPC 8 full level
F04B 33/00 (2006.01); **F04B 37/10** (2006.01); **F04B 39/10** (2006.01)

CPC (source: EP)
F04B 33/00 (2013.01)

Citation (search report)
• [A] US 5494410 A 19960227 - MAIER-LAXHUBER PETER [DE], et al
• [A] US 5788463 A 19980804 - CHAN KWAN-HO [US]
• [A] EP 0041225 A1 19811209 - BACKENKOEHLER WILLI

Cited by
EP1336758A3; CN111633670A; CN101922437A; DE102014001234A1; CN102102662A; CN114682437A; DE102014001234B4

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