

Title (en)

WOBBLE PLATE TYPE COMPRESSOR WITH VARIABLE DISPLACEMENT MECHANISM

Publication

EP 0283963 B1 19910731 (EN)

Application

EP 88104389 A 19880318

Priority

JP 4202287 U 19870324

Abstract (en)

[origin: EP0283963A2] A reciprocating piston type refrigerant compressor (1) includes a compressor housing (10) having a cylinder block (101) provided with a plurality of cylinders (32) and a crank chamber (13) adjacent to the cylinder block (101). A piston (33) slides within each cylinder (32) and is reciprocated by a wobble plate (17) driven by a cam rotor (14) mounted on a drive shaft (12). The cam rotor (14) includes an adjustable slant angle in close proximity to the wobble plate (17). Accordingly, the stroke of the pistons (33) within the cylinders (32) can be changed by adjusting the slant angle of the sloping surface. The slant angle of the sloping surface is adjusted in response to the change of pressure in the crank chamber (13). The crank chamber (13) communicates with the suction chamber (35) through a passageway and a valve control mechanism (46) controls the opening and closing of the passageway. Thus, the capacity of the compressor (1) can be adjusted by changing the slant angle of the sloping surface of the slant plate (16) in response to the operation of the valve control mechanism (46).

IPC 1-7

F04B 1/28; **F04B 27/08**

IPC 8 full level

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CPC (source: EP KR)

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Cited by

EP1275847A3; US6129519A; US6074173A; US4960367A; US6699017B2; WO2013055243A1

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