Title (en)
Wobble plate type compressor with variable displacement mechanism.

Title (de)
Taumelscheibenverdichter mit Mechanismus zur Veränderung der Fördermenge.

Title (fr)
Compresseur à plateau inclinable avec dispositif de variation volumétrique.

Publication
EP 0220798 A1 19870506 (EN)

Application
EP 86305956 A 19860801

Priority
JP 12166985 U 19850809

Abstract (en)
A wobble plate type compressor (1) has a housing (2) having a cylinder block (4) provided with a plurality of cylinders (13). Pistons (12) are slidable in the cylinders and are arranged to be reciprocated by a drive mechanism including a wobble plate (10). A slant angle control means has a control valve mechanism (16) including a first valve (163a) to control the communication between the crank chamber (22) and the discharge chamber (52), a second valve (163c) to control the communication between the crank chamber (22) and the suction chamber (51), and a pressure sensing means (162) to control operation of the first and second valves. The pressure sensing means (162) is disposed within a pressure chamber (162c) unconnected with the suction chamber and having a port (161h) to which refrigerant pressure at a position in a refrigerant circuit between an inlet port of the compressor and an evaporator can be introduced in use.

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F04B 27/08; F25B 1/02

IPC 8 full level
F04B 27/14 (2006.01); F04B 27/18 (2006.01)

CPC (source: EP)
F04B 27/1804 (2013.01); F04B 2027/1813 (2013.01); F04B 2027/1827 (2013.01); F04B 2027/1831 (2013.01); F04B 2027/1859 (2013.01)

Citation (search report)
- EP 0028453 A1 19810513 - GEN MOTORS CORP [US]
- US 4061443 A 19771206 - BLACK DENNIS A, et al
- US 4105370 A 19780808 - BRUCKEN BYRON L, et al
- US 4108577 A 19780822 - BRUCKEN BYRON L, et al

Cited by
US5000666A; EP1033491A3; US5486098A; EP1589223A4; US5145326A; DE3928162A1; US4981419A; US6254356B1

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