

Title (en)
Swash plate type hydraulic pump or motor

Title (de)
Schrägscheiben-Pumpe oder -Motor

Title (fr)
Pompe ou moteur avec plateau en bias

Publication
EP 1519006 A1 20050330 (EN)

Application
EP 04023085 A 20040928

Priority
JP 2003338588 A 20030929

Abstract (en)
A swash plate type hydraulic pump or motor has a first swash plate (30) and a second swash plate (40) which cause a first piston (8) and a second piston (9), respectively, to move reciprocally, opposing each other, so as to expand and contract a volume chamber (10) according to rotation of a cylinder block (4). A rod shape valve body (60) is disposed pushed into a through hole (12) of a shaft axis of the cylinder block (4) so as to be free to rotate relative to the cylinder block (4). A pair of supply and discharge ports (61) that open and supply high pressure and low pressure, respectively, are formed in an outer circumferential surface of the valve body (60). A cylinder port (11) is formed connecting the volume chamber (10) and an inner circumferential surface of the through hole of the cylinder block. The cylinder port (11) is arranged in a position opposite to the supply and discharge port (61). <IMAGE>

IPC 1-7
F01B 3/00; **F04B 1/20**; **F04B 1/22**

IPC 8 full level
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CPC (source: EP US)
F01B 3/0035 (2013.01 - EP US); **F04B 1/205** (2013.01 - EP US); **F04B 1/22** (2013.01 - EP US)

Citation (search report)
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