

Title (en)
Variable displacement positive displacement pump

Title (de)
Pumpe mit veränderlicher Verdrängung

Title (fr)
Pompe volumétrique à déplacement variable

Publication
EP 1486674 A1 20041215 (EN)

Application
EP 03253669 A 20030611

Priority
EP 03253669 A 20030611

Abstract (en)
In an axial, variable displacement, positive displacement pump having a swash plate mounted on a drive shaft for rotation therewith and a non-rotatable wobble plate surrounding the swash plate but isolated there from through bearings includes a slide mechanism disposed on the shaft that can be axially displaced along the shaft as the shaft is being driven to thereby vary the angle of inclination of the swash plate and wobble plate relative to the drive shaft. The pump further includes a unitary in-line valve assembly including suction and discharge poppet valves for each cylinder whereby the overall diameter of the cylinder block can be minimized. <IMAGE>

IPC 1-7
F04B 53/10; **F04B 1/18**

IPC 8 full level
F04B 1/18 (2006.01); **F04B 53/10** (2006.01)

CPC (source: EP)
F04B 1/182 (2013.01); **F04B 53/109** (2013.01)

Citation (search report)

- [XY] US 3180277 A 19650427 - THRESHER GRIFFITH N
- [Y] FR 1224096 A 19600622
- [A] US 3709638 A 19730109 - IGUCHI J, et al

Cited by
CN103874854A; CN115306695A; CN117605677A; US9932971B2; WO2013053670A1

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

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