

Title (en)
Radial piston hydraulic motor/pump

Title (de)
Radialkolbenpumpe

Title (fr)
Pompe à piston radial

Publication
EP 1174616 A3 20030604 (EN)

Application
EP 01117342 A 20010718

Priority
IT VI20000158 A 20000721

Abstract (en)
[origin: EP1174616A2] Deals with a radial piston hydraulic motor/pump, where the alternating linear motion of the pistons takes place on a plane perpendicular to the shaft of the pump; such a dual-function machine (motor/pump) consists of a rotor containing a star of cylinders, a flow distributor and a reaction ring or stator, on which rest the upper ends of the pistons which slide inside the cylinders mentioned above. The finding is characterised in that its fixed distributor plate is in hydrodynamic equilibrium, or hydrobalanced, being completely washed, under functioning conditions, with a film of pressurised fluid. <IMAGE>

IPC 1-7
F04B 1/04; **F04B 1/107**

IPC 8 full level
F04B 1/04 (2006.01); **F04B 1/107** (2006.01)

CPC (source: EP)
F04B 1/0465 (2013.01); **F04B 1/1071** (2013.01)

Citation (search report)
• [X] US 4148249 A 19790410 - JACOBS STEPHAN J, et al
• [X] WO 9400691 A1 19940106 - MICROHYDRAULICS INC [CA], et al
• [X] US 3398698 A 19680827 - KARL EICKMANN
• [A] GB 661652 A 19511128 - OILGEAR CO
• [A] US 3155047 A 19641103 - ADOLF KEEL

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1174616 A2 20020123; **EP 1174616 A3 20030604**; IT 1315479 B1 20030218; IT VI20000158 A0 20000721; IT VI20000158 A1 20020121

DOCDB simple family (application)
EP 01117342 A 20010718; IT VI20000158 A 20000721