

Title (en)
Gyrotor hydraulic motor

Title (de)
Gerotor-Hydraulikmotor

Title (fr)
Moteur hydraulique du type gerotor

Publication
EP 1158165 A2 20011128 (EN)

Application
EP 01112161 A 20010517

Priority
US 57916400 A 20000525

Abstract (en)
A multi-speed gerotor motor of the type including a fluid displacement mechanism (21) defining expanding (33E) and contracting (33C) fluid volume chambers, a stationary valve member (19), defining a plurality N of stationary valve passages, and a movable valve member (43). The upstream end of each valve passage communicates with the movable valve member (43), and the downstream end of each valve passage communicates with one of the volume chambers. In a plurality M of the stationary valve passages (79A through 79E) the upstream (81) and downstream (83) passage portions are blocked from direct communication, and for each there is a control valve member (103) which can, selectively, permit fluid communication for normal, low-speed, high-torque operation, or can block such communication, and recirculate the associated volume chambers for highspeed, low torque operation. <IMAGE>

IPC 1-7
F04C 2/10

IPC 8 full level
F03C 2/08 (2006.01); **F04C 2/10** (2006.01); **F04C 14/08** (2006.01)

CPC (source: EP)
F03C 2/08 (2013.01); **F04C 2/104** (2013.01); **F04C 14/08** (2013.01)

Citation (applicant)
• US 4480971 A 19841106 - SWEDBERG N EINAR [US]
• US 29167199 A 19990414

Cited by
US11493018B2

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 1158165 A2 20011128; EP 1158165 A3 20011212; CN 1326048 A 20011212; JP 2001336472 A 20011207

DOCDB simple family (application)
EP 01112161 A 20010517; CN 01118960 A 20010525; JP 2001153848 A 20010523