

Title (en)  
HYDRAULIC MOTOR WITH INTEGRATED SERIES/PARALLEL SPOOL

Title (de)  
HYDRAULIKMOTOR MIT INTEGRIERTER SERIEN-/PARALLELSPULE

Title (fr)  
MOTEUR HYDRAULIQUE À BOBINE INTÉGRÉE EN SÉRIE/PARALLÈLE

Publication  
**EP 3885571 A1 20210929 (EN)**

Application  
**EP 20165838 A 20200326**

Priority  
EP 20165838 A 20200326

Abstract (en)  
The invention concerns a hydraulic motor (40) with a casing (50) which has a first (51) and a second (52) working port, wherein there is a rotor (70) inside the casing (50), wherein there is a first (41) and a third chamber (43), wherein the first chamber (41) is permanently connected to a plurality of first openings (61) in the end face (63), wherein the third chamber (43) is permanently connected to a plurality of second openings (62) in the end face (63), wherein the first chamber (41) is permanently connected to the first working port (51). According to the invention the casing has a third working port (53), wherein there is a second (42) and a fourth (44) chamber, wherein the second chamber (42) is permanently connected to the second working port (52), wherein the fourth chamber (44) is permanently connected to the third working port (53), wherein there is a movable spool (80) located inside the casing (50), which has a first and a second position (82; 83), wherein in the first position (82) there is a connection from the third chamber (43) to the second chamber (42) via the spool (80), wherein in the second position (83) there is a connection from the third chamber (43) to the fourth chamber (44) via the spool (80) and a connection from the first chamber (41) to the second chamber (42) via the spool (80).

IPC 8 full level  
**F03C 1/36** (2006.01); **F03C 1/24** (2006.01); **F03C 1/40** (2006.01)

CPC (source: EP)  
**F03C 1/0438** (2013.01); **F03C 1/045** (2013.01); **F03C 1/2407** (2013.01)

Citation (applicant)  
• EP 2841763 A2 20150304 - BOSCH GMBH ROBERT [DE]  
• EP 3524859 A1 20190814 - BOSCH GMBH ROBERT [DE]

Citation (search report)  
• [IA] EP 2918831 A1 20150916 - POCLAIN HYDRAULICS IND [FR]  
• [A] GB 2278890 A 19941214 - POCLAIN HYDRAULICS SA [FR]  
• [A] GB 1399596 A 19750702 - MACTAGGART SCOTT, et al

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3885571 A1 20210929; EP 3885571 B1 20230705**

DOCDB simple family (application)  
**EP 20165838 A 20200326**