

Title (en)  
APPARATUS COMPRISING A HYDRAULIC CIRCUIT

Title (de)  
VORRICHTUNG UMFASSEND EINEN HYDRAULIKKREIS

Title (fr)  
APPAREIL COMPORTANT UN CIRCUIT HYDRAULIQUE

Publication  
**EP 3620581 A1 20200311 (EN)**

Application  
**EP 18193573 A 20180910**

Priority  
EP 18193573 A 20180910

Abstract (en)  
A prime mover (22) and a plurality of hydraulic actuators 86,6), a hydraulic machine (32,32) having a rotatable shaft (42) in driven engagement with the prime mover and comprising a plurality of working chambers, a hydraulic circuit extending between a group of one or more working chambers of the hydraulic machine and one or more of the hydraulic actuators, each working chamber of the hydraulic machine comprising a low-pressure valve (52) which regulates the flow of hydraulic fluid between the working chamber and a low-pressure manifold and a high-pressure valve (64) which regulates the flow of hydraulic fluid between the working chamber and a high-pressure manifold. The hydraulic machine being configured to actively control at least the low-pressure valves of the group of one or more working chambers to select the net displacement of hydraulic fluid by each working chamber on each cycle of working chamber volume, and thereby the net displacement of hydraulic fluid by the group of one or more working chambers, responsive to a demand signal, wherein the apparatus further comprises a controller configured to calculate the demand signal in response to a measured property of the hydraulic circuit or one or more actuators.

IPC 8 full level  
**E02F 9/20** (2006.01); **B66F 11/04** (2006.01); **E02F 3/96** (2006.01); **E02F 9/22** (2006.01); **F04B 7/00** (2006.01); **F04C 9/00** (2006.01); **F15B 21/00** (2006.01); **G05B 11/42** (2006.01)

CPC (source: EP)  
**E02F 3/964** (2013.01); **E02F 9/20** (2013.01); **E02F 9/2207** (2013.01); **E02F 9/2235** (2013.01); **E02F 9/2282** (2013.01); **F03C 1/045** (2013.01); **F03C 1/053** (2013.01); **F04B 1/053** (2013.01); **F04B 1/063** (2013.01); **F04B 7/0076** (2013.01); **F04B 17/05** (2013.01); **F04B 23/06** (2013.01); **F04B 49/03** (2013.01); **F04B 49/065** (2013.01); **F04B 49/22** (2013.01); **F15B 21/087** (2013.01); **F04B 2203/0603** (2013.01); **F04B 2205/09** (2013.01); **F15B 2211/20523** (2013.01); **F15B 2211/20553** (2013.01); **F15B 2211/20576** (2013.01); **F15B 2211/3116** (2013.01); **F15B 2211/40507** (2013.01); **F15B 2211/41554** (2013.01); **F15B 2211/45** (2013.01); **F15B 2211/6306** (2013.01); **F15B 2211/6309** (2013.01); **F15B 2211/6313** (2013.01); **F15B 2211/633** (2013.01); **F15B 2211/6333** (2013.01); **F15B 2211/634** (2013.01); **F15B 2211/6346** (2013.01); **F15B 2211/6652** (2013.01); **F15B 2211/6655** (2013.01); **F15B 2211/6656** (2013.01); **F15B 2211/6658** (2013.01)

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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 3620581 A1 20200311**; **EP 3620581 B1 20220309**; EP 3754121 A1 20201223; EP 3754121 B1 20221012; ES 2930125 T3 20221207; FI 3754121 T3 20230113; PL 3754121 T3 20230206

DOCDB simple family (application)  
**EP 18193573 A 20180910**; EP 20186393 A 20180910; ES 20186393 T 20180910; FI 20186393 T 20180910; PL 20186393 T 20180910