

Title (en)

HYDRAULIC VALVE DEVICE WITH MULTIPLE WORKING SECTIONS WITH PUMP CONTROL SYSTEM

Title (de)

HYDRAULISCHE VENTILVORRICHTUNG MIT MEHRFACHEN ARBEITSABSCHNITTEN UND EINEM PUMPENSTEUERUNGSSYSTEM

Title (fr)

DISPOSITIF DE SOUPAPE HYDRAULIQUE AVEC PLUSIEURS SECTIONS DE TRAVAIL ET UNE SYSTEME DE COMMANDE DE POMPE

Publication

EP 3390842 B1 20220921 (EN)

Application

EP 16823216 A 20161216

Priority

- IT UB20159570 A 20151216
- EP 2016081392 W 20161216

Abstract (en)

[origin: WO2017103079A1] Modular directional valve with two or more crossing elements (E1.. En) fed by a variable displacement (PA), negative control or load sensing pump. A pressure regulator (5) is placed in the entry side and only on the bypass line and upstream of the first element (E1..En). In the single drive, it makes the flow rate to the utility independent of the load and allows setting a maximum flow rate at the end of the stroke; in multiple drives, it ensures that the sum of the required flow rates is independent of the loads.

IPC 8 full level

F15B 11/042 (2006.01); **F15B 11/044** (2006.01); **F15B 11/05** (2006.01); **F15B 11/16** (2006.01)

CPC (source: EP US)

F04B 23/02 (2013.01 - US); **F04B 49/002** (2013.01 - US); **F04B 49/24** (2013.01 - US); **F15B 11/042** (2013.01 - US); **F15B 11/044** (2013.01 - US); **F15B 11/055** (2013.01 - EP US); **F15B 11/165** (2013.01 - EP US); **F15B 2211/20546** (2013.01 - EP US); **F15B 2211/3116** (2013.01 - EP US); **F15B 2211/40507** (2013.01 - EP US); **F15B 2211/41554** (2013.01 - EP); **F15B 2211/45** (2013.01 - EP); **F15B 2211/50554** (2013.01 - EP US); **F15B 2211/5151** (2013.01 - EP); **F15B 2211/605** (2013.01 - EP US); **F15B 2211/6355** (2013.01 - EP US)

Citation (examination)

US 2014318116 A1 20141030 - ITO MAKOTO [JP], 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

DOCDB simple family (publication)

WO 2017103079 A1 20170622; EP 3390842 A1 20181024; EP 3390842 B1 20220921; IT UB20159570 A1 20170616; US 2018372088 A1 20181227

DOCDB simple family (application)

EP 2016081392 W 20161216; EP 16823216 A 20161216; IT UB20159570 A 20151216; US 201516063249 A 20151216