

Title (en)  
DEVICE FOR CONTROLLING CONSTRUCTION EQUIPMENT

Title (de)  
VORRICHTUNG ZUR STEUERUNG EINER BAUMASCHINE

Title (fr)  
DISPOSITIF PERMETTANT DE COMMANDER UN ENGIN DE CONSTRUCTION

Publication  
**EP 2610409 A4 20171220 (EN)**

Application  
**EP 10856458 A 20100824**

Priority  
KR 2010005606 W 20100824

Abstract (en)  
[origin: EP2610409A1] Provided is a device for controlling construction equipment for controlling the spool of an MCV, which is directionally controllable, to control working fluid which is supplied to a hydraulic actuator. According to the present invention, provided is a device for controlling construction equipment, comprising: a remote control valve for outputting a secondary signal pressure which is proportionate to the amount calibrated by an operator; a calibrated amount detection means for detecting the secondary signal pressure of the remote control valve; an electro proportional pressure reducing valve for outputting the secondary signal pressure; first and second shuttle valves, each of the shuttle valves having an input portion on one side which connects to the secondary signal pressure of the remote control valve, and an input portion on the other side to which output-side ports of the electro proportional pressure reducing valve connect respectively; a directional control spool for controlling the actuation of the hydraulic actuator when exchanging by means of the signal pressure output from the first and second shuttle valves; and a controller for outputting a control signal to the electro proportional pressure reducing valve so as to correspond to the operation amount which is input by the operation amount detection means.

IPC 8 full level  
**E02F 9/22** (2006.01); **F15B 11/16** (2006.01); **F15B 21/02** (2006.01); **F15C 3/02** (2006.01)

CPC (source: EP US)  
**E02F 9/22** (2013.01 - US); **E02F 9/2228** (2013.01 - EP US); **E02F 9/2282** (2013.01 - EP US); **E02F 9/2285** (2013.01 - EP US); **F15B 11/167** (2013.01 - EP US); **F15B 13/042** (2013.01 - EP US); **F15B 2211/20523** (2013.01 - EP US); **F15B 2211/3052** (2013.01 - EP US); **F15B 2211/30525** (2013.01 - EP US); **F15B 2211/3116** (2013.01 - EP US); **F15B 2211/329** (2013.01 - EP US); **F15B 2211/355** (2013.01 - EP US); **F15B 2211/50554** (2013.01 - EP US); **F15B 2211/5756** (2013.01 - EP US); **F15B 2211/6316** (2013.01 - EP US); **F15B 2211/6346** (2013.01 - EP US); **F15B 2211/6355** (2013.01 - EP US); **F15B 2211/865** (2013.01 - EP US); **Y10T 137/86027** (2015.04 - EP US)

Citation (search report)

- [X] JP H05222745 A 19930831 - YUTANI JUKO KK
- [X] JP 2004278746 A 20041007 - HITACHI SUMITOMO HEAVY IND CONSTRUCTION CRANE CO LTD
- [X] DE 102008018936 A1 20091022 - BOSCH GMBH ROBERT [DE]
- See references of WO 2012026633A1

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 SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2610409 A1 20130703**; **EP 2610409 A4 20171220**; CN 103052755 A 20130417; CN 103052755 B 20151216; JP 2013540957 A 20131107; KR 20130111532 A 20131010; US 2013146163 A1 20130613; WO 2012026633 A1 20120301

DOCDB simple family (application)  
**EP 10856458 A 20100824**; CN 201080068670 A 20100824; JP 2013525795 A 20100824; KR 2010005606 W 20100824; KR 20137004526 A 20100824; US 201013818175 A 20100824