

Title (en)
APPARATUS FOR CONTROLLING COMBINED-OPERATION OF CONSTRUCTION MACHINE

Title (de)
VORRICHTUNG ZUR STEUERUNG DES KOMBINIERTEN BETRIEBS EINER BAUMASCHINE

Title (fr)
APPAREIL POUR COMMANDER UNE OPÉRATION COMBINÉE D'UN ENGIN DE CHANTIER

Publication
EP 3093401 A4 20170913 (EN)

Application
EP 14873984 A 20141217

Priority
• KR 20130164663 A 20131226
• KR 2014012439 W 20141217

Abstract (en)
[origin: EP3093401A1] The present disclosure relates to an apparatus for controlling a combined operations of a construction machine, the apparatus including: a first pump and a second pump which provide pressurized oil to a plurality of actuators for performing driving and swinging operations of the construction machine by an operation of an operating unit; a driving control spool which allows the first pump to communicate with a driving motor; a swing control spool which is positioned at a downstream of the driving control spool and allows the first pump to communicate with a swing motor; and a driving priority valve which allows the pressurized oil discharged from the first pump to be supplied to the driving control spool, and allows the pressurized oil discharged from the second pump to be supplied to the swing control spool when a combined operations of driving and swinging of the construction machine are performed.

IPC 8 full level
E02F 9/22 (2006.01); **F15B 11/20** (2006.01); **F15B 13/02** (2006.01)

CPC (source: EP KR)
E02F 9/22 (2013.01 - KR); **E02F 9/2239** (2013.01 - EP); **E02F 9/2282** (2013.01 - EP); **E02F 9/2285** (2013.01 - EP); **F15B 11/17** (2013.01 - EP); **F15B 11/20** (2013.01 - KR); **F15B 13/02** (2013.01 - KR); **F15B 2211/20576** (2013.01 - EP); **F15B 2211/30595** (2013.01 - EP); **F15B 2211/3116** (2013.01 - EP); **F15B 2211/41554** (2013.01 - EP); **F15B 2211/428** (2013.01 - EP); **F15B 2211/45** (2013.01 - EP); **F15B 2211/6355** (2013.01 - EP); **F15B 2211/7135** (2013.01 - EP); **F15B 2211/7142** (2013.01 - EP); **F15B 2211/781** (2013.01 - EP)

Citation (search report)
• [XA] WO 2013089295 A1 20130620 - VOLVO CONSTR EQUIP AB [SE], et al
• [XA] US 4112821 A 19780912 - BIANCHETTA DONALD LOUIS
• [A] EP 0900889 A2 19990310 - HITACHI CONSTRUCTION MACHINERY [JP]
• See references of WO 2015099352A1

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)
EP 3093401 A1 20161116; **EP 3093401 A4 20170913**; **EP 3093401 B1 20190925**; CN 105917052 A 20160831; CN 105917052 B 20181130; KR 102083687 B1 20200414; KR 20150076045 A 20150706; WO 2015099352 A1 20150702

DOCDB simple family (application)
EP 14873984 A 20141217; CN 201480070227 A 20141217; KR 20130164663 A 20131226; KR 2014012439 W 20141217