

Title (en)
MULTIDIRECTIONAL SWITCHING VALVE FOR CONSTRUCTION MACHINE

Title (de)
MULTIDIREKTIONALES SCHALTVENTIL FÜR EINE BAUMASCHINE

Title (fr)
VANNE DE COMMUTATION MULTIDIRECTIONNELLE POUR ENGIN DE CHANTIER

Publication
EP 3037676 B1 20190227 (EN)

Application
EP 14837856 A 20140806

Priority
• JP 2013170695 A 20130820
• JP 2014070728 W 20140806

Abstract (en)
[origin: EP3037676A1] The object of the present invention is to provide a multiple direction switching valve capable of stopping acceleration of a first actuator upon operation of a second actuator, without adding any outside pipe. A boom accelerating valve 4 is located in a valve member block 10, the boom accelerating valve 4 having an accelerating position 4a at which pressure oil from a second pump 52 is supplied to a boom hydraulic cylinder 55, and a neutral position 4b at which the pressure oil from the second pump 52 is not supplied to the boom hydraulic cylinder 55. In addition, a boom acceleration releasing mechanism is provided in the valve member block 10, the boom acceleration releasing mechanism being configured to return the boom accelerating valve 4 to the neutral position 4b from the accelerating position 4a, when an arm direction switching valve 2z is operated.

IPC 8 full level
F15B 11/00 (2006.01); **E02F 9/22** (2006.01); **F15B 11/02** (2006.01); **F15B 11/04** (2006.01); **F15B 11/17** (2006.01)

CPC (source: EP)
E02F 9/2239 (2013.01); **E02F 9/2282** (2013.01); **E02F 9/2285** (2013.01); **E02F 9/2292** (2013.01); **F15B 11/17** (2013.01); **F15B 2211/20576** (2013.01); **F15B 2211/30595** (2013.01); **F15B 2211/329** (2013.01); **F15B 2211/7135** (2013.01); **F15B 2211/7142** (2013.01)

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 3037676 A1 20160629; **EP 3037676 A4 20170426**; **EP 3037676 B1 20190227**; CN 105492779 A 20160413; CN 105492779 B 20170609; JP 2015040575 A 20150302; JP 6196499 B2 20170913; KR 101783566 B1 20170929; KR 20160043106 A 20160420; WO 2015025713 A1 20150226

DOCDB simple family (application)
EP 14837856 A 20140806; CN 201480046270 A 20140806; JP 2013170695 A 20130820; JP 2014070728 W 20140806; KR 20167006953 A 20140806