

Title (en)
HYDRAULIC SYSTEM FOR CONSTRUCTION MACHINERY

Title (de)
HYDRAULISCHES SYSTEM FÜR EINE BAUMASCHINE

Title (fr)
SYSTÈME HYDRAULIQUE POUR ÉQUIPEMENT DE CONSTRUCTION

Publication
EP 2937474 A2 20151028 (EN)

Application
EP 15164484 A 20150421

Priority
KR 20140047451 A 20140421

Abstract (en)
The present disclosure relates to a hydraulic system for construction machinery. According to the hydraulic system for construction machinery according to the exemplary embodiment of the present disclosure, during a traveling mode, hydraulic oil discharged from a first main pump (11) merges with hydraulic oil discharged from a second main pump (12), and the merged hydraulic oil is provided to a traveling motor (80), thereby improving traveling performance. In addition, according to the hydraulic system for construction machinery according to the exemplary embodiment of the present disclosure, even in a situation in which the first and third control valve units (51, 53) cannot be normally controlled for an unknown reason, the overspeed traveling may be prevented by restricting a maximum discharge flow rate of the first main pump (11) in the traveling mode, thereby ensuring traveling performance and preventing durability of a traveling system from deteriorating.

IPC 8 full level
E02F 9/22 (2006.01)

CPC (source: CN EP)
E02F 9/2239 (2013.01 - EP); **E02F 9/2253** (2013.01 - EP); **E02F 9/226** (2013.01 - EP); **E02F 9/2285** (2013.01 - EP); **E02F 9/2292** (2013.01 - EP); **F15B 11/04** (2013.01 - CN)

Citation (applicant)
JP 2004027706 A 20040129 - HITACHI CONSTRUCTION MACHINERY

Cited by
EP3640404A4; EP3821136A4; WO2023035583A1

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 2937474 A2 20151028; EP 2937474 A3 20160413; EP 2937474 B1 20220420; CN 105003475 A 20151028; CN 105003475 B 20161207; KR 102156447 B1 20200915; KR 20150121506 A 20151029

DOCDB simple family (application)
EP 15164484 A 20150421; CN 201510190974 A 20150421; KR 20140047451 A 20140421