

Title (en)

BOOM-SWIVEL COMPOUND DRIVE HYDRAULIC CONTROL SYSTEM OF CONSTRUCTION MACHINE

Title (de)

HYDRAULISCHES STEUERSYSTEM EINES AUSLEGERDREHGELENKVERBUNDANTRIEBS EINER EINER BAUMASCHINE

Title (fr)

SYSTÈME DE COMMANDE HYDRAULIQUE D'ENTRAÎNEMENT COMBINÉ FLÈCHE/PIVOT POUR MACHINE DE CONSTRUCTION

Publication

EP 2660478 A1 20131106 (EN)

Application

EP 10861359 A 20101227

Priority

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Abstract (en)

Disclosed is a hydraulic control system for matching the drive speed of a boom up and a swing device according to the operation environment when compound-driving for manipulating boom and swing for excavation compensating error operation. The hydraulic control system of the present invention comprises: an operation mode selection switch for enabling the selection of an operation mode according to the operation environment; an electronic proportional pressure control valve for outputting a control signal pressure that is proportional to the manipulation of the operation mode selection switch when manipulating a boom operation lever for driving the boom up; a variable flow control valve that is placed on a flow channel between a first hydraulic pump and a spool for the swing device, and has an open area thereof that is variably matched proportional to the control signal pressure from the electronic proportional pressure control valve; and a controller having various types of operation modes previously set and stored thereon so as to control the flow being supplied to the spool for the swing device and a spool for the boom merge, according to the operation mode selected when manipulating the operation mode selection switch.

IPC 8 full level

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CPC (source: EP KR US)

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