

Title (en)

Apparatus and method for controlling hydraulic construction equipment.

Title (de)

Vorrichtung und Verfahren zur Steuerung einer hydraulischen Baumaschine.

Title (fr)

Dispositif et procédé par la commande d'engins de chantier hydrauliques.

Publication

EP 0632167 A2 19950104 (EN)

Application

EP 94107376 A 19940511

Priority

KR 930012456 A 19930702

Abstract (en)

An apparatus and a method for controlling a moving speed of each bucket and a moving speed ratio between each bucket to be proportional to a degree of operation of each operation indicator and an operation ratio between each operation indicator regardless of changes in various working conditions or load pressures. The apparatus has means for receiving an operation command from an input portion and converting said operation command into an operation signal, means for calculating a required discharge oil amount of a pump which is proportional to said operation signal and a required moving speed of an actuator which is proportional to the degree of operation and the operation ratio of said operation signal, means for adjusting said required discharge oil amount and said required moving speed based on a maximum dischargeable oil amount of said pump, means for subtracting a real discharge oil amount and a real moving speed from said adjusted discharge oil amount and said adjusted moving speed, means for controlling the discharge oil amount of said pump according to the control signal from said subtracting means, and means for controlling the moving speed of said actuator according to the control signal from said subtracting means. <IMAGE>

IPC 1-7

E02F 9/22

IPC 8 full level

F15B 7/00 (2006.01); **E02F 9/20** (2006.01); **E02F 9/22** (2006.01)

CPC (source: EP KR)

E02F 9/2025 (2013.01 - EP); **E02F 9/2221** (2013.01 - EP); **E02F 9/2228** (2013.01 - EP); **E02F 9/2235** (2013.01 - EP); **E02F 9/2292** (2013.01 - EP); **E02F 9/2296** (2013.01 - EP); **F15B 7/00** (2013.01 - KR)

Cited by

CN102817394A; US6115660A; US2020200157A1; US6233511B1; WO9927197A3

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0632167 A2 19950104; **EP 0632167 A3 19961211**; JP H0726591 A 19950127; KR 0171389 B1 19990330; KR 950003644 A 19950217

DOCDB simple family (application)

EP 94107376 A 19940511; JP 12441294 A 19940512; KR 930012456 A 19930702