

Title (en)

Electromechanically controlled excavator and method for controlling the electromechanically controlled excavator.

Title (de)

Elektromechanisch gesteuerter Bagger und Verfahren zur Steuerung des elektromechanisch gesteuerten Baggers.

Title (fr)

Excavatrice commandée électro-mécaniquement et procédé de commande de l'excavatrice commandée électro-mécaniquement.

Publication

EP 1835079 B1 20080507 (EN)

Application

EP 06122458 A 20061017

Priority

CN 200610331374 A 20060317

Abstract (en)

[origin: EP1835079A1] The present invention discloses an electromechanically-integrated excavator and a method for controlling the same. The electromechanically-integrated excavator comprises a monitoring process, a storage, a watchdog, an indicator screen, an audio alarm, an optoelectronic isolating circuit, a high speed optoelectronic isolating circuit, a counter, a filter, and a communication circuit; the monitoring processor is connected respectively with the storage, the watchdog, the indicator screen, the audio alarm, the counter, the filter, and the communication circuit; the optoelectronic isolating circuit is connected with the filter; the high speed optoelectronic isolating circuit is connected with the counter. The excavator of the present invention also comprises a motion controller (11), a boom angle sensor (2), a stick angle sensor (4), a bucket angle sensor (7), wherein the outputs of the above angle sensors (2,4,7) are connected with the inputs of the motion controller, and the motion controller is connected with the monitoring processor across the communication circuit. The electromechanically-integrated excavator of the present invention realizes automatic excavating control on a preset path of the operating devices of the excavator, as well as provides the advantages of highly precise control, accurate positioning, and low power consumption.

IPC 8 full level

E02F 3/43 (2006.01); **E02F 9/20** (2006.01)

CPC (source: EP)

E02F 3/437 (2013.01); **E02F 9/264** (2013.01)

Cited by

CN111622283A; CN108884654A; CN104120745A; CN104769189A; CN112112215A; CN111622297A; CN114439070A; CN107614803A; CN105350595A; CN115874675A; CN104246081A; CN108691325A; CN102890487A; CN104929169A; CN110725359A; US10648160B2; US8527155B2; US9371626B2; US10968607B2; CN109281345A; EP3591123A1; IT201800006471A1; WO2009158619A3

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 1835079 A1 20070919; **EP 1835079 B1 20080507**; DE 602006001105 D1 20080619

DOCDB simple family (application)

EP 06122458 A 20061017; DE 602006001105 T 20061017