

Title (en)

ADAPTIVE CONTROL METHOD, ADAPTIVE CONTROL APPARATUS, ELECTRONIC DEVICE AND EXCAVATOR

Title (de)

ADAPTIVES STEUERUNGSVERFAHREN, ADAPTIVE STEUERUNGSVORRICHTUNG, ELEKTRONISCHE VORRICHTUNG UND BAGGER

Title (fr)

PROCÉDÉ DE COMMANDE ADAPTATIF, APPAREIL DE COMMANDE ADAPTATIF, DISPOSITIF ÉLECTRONIQUE ET EXCAVATRICE

Publication

**EP 4116506 A1 20230111 (EN)**

Application

**EP 22773393 A 20220228**

Priority

- CN 202110546170 A 20210519
- CN 2022078485 W 20220228

Abstract (en)

The present disclosure provides an adaptive control method applicable to an excavator. The adaptive control method includes: acquiring detection parameters of the excavator, the detection parameters comprising a displacement of an electric control handle of the excavator and angle information of the excavator; identifying a current working condition of the excavator based on the detection parameters; and adjusting control parameters of the excavator based on the current working condition. According to the adaptive control method provided by the present disclosure, the current working condition is identified by using the displacement of the electric control handle and the angle information of the excavator, and then the control parameters of the excavator are adjusted based on the current working condition, so that the control parameters are automatically adjusted with change of the current working condition, which improves control efficiency of the excavator.

IPC 8 full level

**E02F 9/20** (2006.01); **E02F 3/04** (2006.01); **E02F 9/22** (2006.01)

CPC (source: CN EP)

**E02F 3/04** (2013.01 - CN); **E02F 3/435** (2013.01 - EP); **E02F 3/437** (2013.01 - EP); **E02F 9/20** (2013.01 - CN); **E02F 9/2025** (2013.01 - CN); **E02F 9/2058** (2013.01 - CN); **E02F 9/22** (2013.01 - CN); **E02F 9/2203** (2013.01 - CN EP); **E02F 9/225** (2013.01 - CN); **E02F 9/265** (2013.01 - EP)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4116506 A1 20230111**; **EP 4116506 A4 20231025**; CN 113216311 A 20210806; CN 113216311 B 20220816; WO 2022242266 A1 20221124

DOCDB simple family (application)

**EP 22773393 A 20220228**; CN 202110546170 A 20210519; CN 2022078485 W 20220228