

Title (en)

CONTROL APPARATUS FOR EXCAVATORS.

Title (de)

KONTROLLVORRICHTUNG FÜR GRABGERÄTE.

Title (fr)

DISPOSITIF DE REGULARION POUR EXCAVATEURS.

Publication

**EP 0598139 A4 19980107 (EN)**

Application

**EP 93913556 A 19930622**

Priority

- JP 9300838 W 19930622
- JP 16304592 A 19920622

Abstract (en)

[origin: EP0598139A1] This invention aims at improving the operation accuracy, operation efficiency and reliability of an excavator. The soil condition of a place where an excavator (1) is to be operated is inputted, and a reference revolution speed of a cutter (9) and a reference propulsive speed of the excavator (1) are set in accordance with the inputted soil condition. The loads imparted to actuators (17,18) are detected. The cutter rotating actuator (18) is controlled so that the set revolution speed of the cutter (9) can be obtained. When the loads on the two actuators (17, 18) are detected to be respectively within predetermined ranges, the propulsion actuator (17) is controlled so that the set reference propulsive speed can be provided to the excavator (1). However, when the load on any one of the actuators (17,18) is detected to be out of the predetermined range, the propulsion actuator (17) is controlled so that the actual propulsive speed becomes lower or higher than the set reference propulsive speed.

<IMAGE>

IPC 1-7

**E21D 9/06**; **E21D 9/08**; **E21D 9/12**

IPC 8 full level

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CPC (source: EP)

**E21B 44/06** (2013.01); **E21D 9/093** (2016.01); **E21D 9/124** (2013.01)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 9400673A1

Cited by

CN110325028A; CN110486029A; CN113917909A; US6772134B1; WO2007034136A3; WO0017487A1

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