

Title (en)

Method and apparatus for controlling the push mechanism of an earth drilling rig

Title (de)

Verfahren und Vorrichtung zur Steuerung des Vorschubantriebes einer Erdbohranlage

Title (fr)

Méthode et dispositif pour commander un appareil d'avancement d'un appareil de forage du sol

Publication

EP 0863293 A3 19990512 (DE)

Application

EP 98103945 A 19980305

Priority

DE 19708997 A 19970305

Abstract (en)

[origin: EP0863293A2] Feed rate produced by feed drive when drilling in the ground is controlled by a hydraulic circuit (10-86) as a function of the torque occurring at the drilling tool. Preferably the feed rate is controlled on the basis of the difference between the actual torque and a set-point torque, so that the feed rate is less than a predetermined value. The feed rate may additionally be controlled as a function of the feed force, for which a limiting value is defined. A control system is used for carrying out the method. It involves a pressure medium flowing to the hydraulic rotary drive can be regulated by a control valve.

IPC 1-7

E21B 44/00

IPC 8 full level

B23B 47/08 (2006.01); **E21B 44/06** (2006.01)

CPC (source: EP US)

E21B 44/06 (2013.01 - EP US)

Citation (search report)

- [X] US 4711090 A 19871208 - HARTIALA EERO [FI], et al
- [X] DE 4302755 A1 19940804 - REXROTH MANNESMANN GMBH [DE]

Designated contracting state (EPC)

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EP 0863293 A2 19980909; **EP 0863293 A3 19990512**; **EP 0863293 B1 20030924**; DE 19708997 A1 19980917; DE 19708997 C2 20020829; US 5913371 A 19990622

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EP 98103945 A 19980305; DE 19708997 A 19970305; US 84475297 A 19970421