

Title (en)  
Earth-drilling device.

Title (de)  
Bohrgerät, insbesondere Erdbohrgerät.

Title (fr)  
Dispositif de forage du sol.

Publication  
**EP 0439080 B1 19931124 (DE)**

Application  
**EP 91100640 A 19910119**

Priority  
DE 4001681 A 19900122

Abstract (en)  
[origin: EP0439080A1] In a drilling device which has at least one free-fall winch and a control-line system with actuating and control elements by means of which the free-fall winch can be put into the state "free-fall operation", at least one safety-switch element (37; 47), apart from an actuating element (35 or 36), is provided in a control line (34, 31 or 33) for a control member (30 or 32). In this arrangement, a predeterminable position of the safety-switch element (37; 47) is a prerequisite for activation of the control member (30 or 32) for the state "free-fall operation". In particular, a safety-switch element (47) is allocated to an actuating system (42, 43, 44, 45, 46) for the rotary mechanism of the drilling device and/or to an actuating system for the travelling mechanism of the drilling device. <IMAGE>

IPC 1-7  
**E02D 7/08**; **E21B 7/02**

IPC 8 full level  
**E02D 7/08** (2006.01); **E21B 7/02** (2006.01); **E21B 15/04** (2006.01); **E21B 19/00** (2006.01); **E21B 44/00** (2006.01)

CPC (source: EP)  
**E21B 7/02** (2013.01); **E21B 7/022** (2013.01); **E21B 19/008** (2013.01)

Citation (examination)  
• DE 3203432 A1 19830811 - ORENSTEIN & KOPPEL AG [DE]  
• FR 2220630 A1 19741004 - POCLAIN SA [FR]

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI NL

DOCDB simple family (publication)  
**EP 0439080 A1 19910731**; **EP 0439080 B1 19931124**; AT E97709 T1 19931215; DE 4001681 C1 19901220; DE 59100617 D1 19940105

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