

Title (en)  
DRILLING DEVICE

Publication  
**EP 0123671 A3 19850403 (DE)**

Application  
**EP 84890067 A 19840405**

Priority  
AT 123383 A 19830407

Abstract (en)  
[origin: EP0123671A2] 1. A drilling device, in particular for rotary percussion drilling of rock or the like, having at least one rotary or percussive drive (5) with at least one plug-in stump (9) for the multi-part drill column (30), whose parts are connectable to one another via internal and external threads, the drive (5) being longitudinally displaceably disposed on a drill carriage (8), holding members (7), e.g. opened wrenches or the like for the drill column (30) projecting into the bore and a further drive (19), e.g. a fluid-driven motor, being provided on the carriage (8) for releasing the drill column (30), the further drive (19) turning, via pinions (20) and external toothing (22), a rotor (21) carrying at least one gripping element (28) and being rotatably disposed in a housing (17) and thereby turning a part of the drill column (30), the gripping element or elements (28) having working faces (29) which, when disposed on the drill column (30), form an angle equal to or smaller than the self-locking angle, and a cam device being provided to ensure that the gripping elements (28) mesh in when the rotor (21) rotates, characterized in that a ring (32) is mounted in the rotor (21), the ring having at least one cam (33) for the gripping elements (28), which is or are securable by a housing (17) surrounding the rotor (21).

IPC 1-7  
**E21B 19/16**

IPC 8 full level  
**E21B 1/00** (2006.01); **E21B 1/26** (2006.01); **E21B 19/16** (2006.01)

CPC (source: EP)  
**E21B 19/16** (2013.01)

Citation (search report)

- [X] GB 2084062 A 19820407 - MOSING DONALD EUGENE
- [X] FR 2043610 A1 19710219 - BECKER DRILLS LTD
- [A] US 3662867 A 19720516 - KINZBACH ROBERT B
- [A] US 3760658 A 19730925 - GUIER W

Cited by  
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Designated contracting state (EPC)  
BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0123671 A2 19841031; EP 0123671 A3 19850403; EP 0123671 B1 19880914;** AT 382682 B 19870325; AT A123383 A 19860815; AU 2633384 A 19841011; AU 566591 B2 19871022; DE 3474050 D1 19881020; JP S59187991 A 19841025

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**EP 84890067 A 19840405;** AT 123383 A 19830407; AU 2633384 A 19840402; DE 3474050 T 19840405; JP 6346984 A 19840402