

Title (en)
HYDRAULIC DRILLING DEVICE AND METHOD FOR USE

Publication
EP 0427663 B1 19930310 (DE)

Application
EP 90810755 A 19901003

Priority
CH 402789 A 19891108

Abstract (en)
[origin: CA2029094A1] A hydraulic drilling outfit which consists of a hydraulically driven hammer drill which is fastened pivotally to a hydraulic thrust unit. A control for the hydraulics utilizes the flushing water for the drill bit as the power-source for all of the motions executed by the drilling outfit. One hydraulic supply line for the control of the thrust unit and one supply line for the control to the hammer drill are sufficient for operating the system in an open circuit. A rotary slide valve simultaneously controls the thrust and withdrawal motions as well as the operational states of drilling and not drilling. The desired value adjustment for the speed of thrust is arranged on the rotary slide valve.

IPC 1-7
E21B 21/00; E21B 44/00; E21C 5/11

IPC 8 full level
E21B 7/18 (2006.01); **E21B 6/00** (2006.01); **E21B 19/087** (2006.01); **E21B 21/00** (2006.01); **E21B 44/00** (2006.01); **E21B 44/06** (2006.01)

CPC (source: EP US)
E21B 6/00 (2013.01 - EP US); **E21B 19/087** (2013.01 - EP US); **E21B 21/01** (2013.01 - EP US); **E21B 44/06** (2013.01 - EP US)

Cited by
CN105822304A; AU630750B2; DE202011100538U1; EP0703345A3

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 0427663 A1 19910515; EP 0427663 B1 19930310; AT E86714 T1 19930315; AU 630750 B2 19921105; AU 6496190 A 19910516; CA 2029094 A1 19910509; DE 59001008 D1 19930415; FI 904366 A0 19900904; JP H03161688 A 19910711; US 5107933 A 19920428; ZA 907692 B 19910731

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