

Title (en)
APPARATUS FOR DIRECTIONAL DRILLING

Publication
EP 0015137 B1 19840222 (EN)

Application
EP 80300476 A 19800219

Priority
US 1358479 A 19790221

Abstract (en)
[origin: EP0015137A1] A method and apparatus for drilling a substantially horizontal borehole through a subterranean mineral bed with a drilling assembly including a drill shaft 10 connected to a down-hole motor 12 and drill bit 13. A deflection device 26 is positioned between the down-hole motor and the drill bit. The deflection device applies a predetermined perpendicular force to the drill bit causing the borehole to deviate from the drill shaft axis in the direction of the force. The method includes periodically surveying the borehole to determine its position relative to the top or bottom of the mineral bed, and rotating the drill shaft through a half turn sequentially to provide an alternating upward and downward trajectory to the borehole within the upper and lower boundaries of the mineral bed.

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E21B 7/06

IPC 8 full level
E21B 7/06 (2006.01); **E21B 7/08** (2006.01)

CPC (source: EP)
E21B 7/068 (2013.01)

Cited by
US2016281431A1; US4471843A; GB2306529A; US5778992A; GB2306529B; US7267184B2; US10316638B1; RU2740390C2; US11261667B2; US7546209B2; WO2004113666A1; WO0034616A1; US8875806B2; US9534446B2; US11193331B2; US6516900B1; US8960326B2; US10119385B2; US10544666B1; US11421480B2; US11428047B2; US11459828B2; US11643877B2

Designated contracting state (EPC)
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