

Title (en)

Apparatus and methods for drilling a wellbore using casing

Title (de)

Vorrichtung und Verfahren zum Bohren eines Bohrlochs mit einem Futterrohr

Title (fr)

Appareil et procédés permettant de forer un puits utilisant un cuvelage

Publication

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Application

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- US 45218603 P 20030305

Abstract (en)

[origin: WO2004070159A2] Apparatus and methods for drilling with casing. In an embodiment, methods and apparatus for deflecting casing using a diverter apparatus are disclosed. In another embodiment, the apparatus comprises a motor operating system disposed in a motor system housing, a shaft operatively connected to the motor operating system, the shaft having a passageway, and a divert assembly disposed to direct fluid flow selectively to the motor operating system and the passageway in the shaft. In another aspect, methods and apparatus for directionally drilling a casing into the formation are disclosed. Methods and apparatus for measuring the trajectory of a wellbore while directionally drilling a casing into the formation are also described.

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Citation (search report)

- [X] US 6098728 A 20000808 - WELLS JENNIFER ANN [US], et al
- [X] US 6142248 A 20001107 - THIGPEN GARY MICHAEL [US], et al

Cited by

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