

Title (en)

Annulus pressure responsive downhole tool.

Title (de)

Vorrichtung im Bohrloch, die durch ringsraumdruck betätigt wird.

Title (fr)

Appareil de fond de puits commandé par pression de l'annulaire.

Publication

EP 0136146 A2 19850403 (EN)

Application

EP 84306365 A 19840918

Priority

- US 53370183 A 19830919
- US 53383483 A 19830919
- US 53383583 A 19830919
- US 53390183 A 19830919

Abstract (en)

An annulus pressure responsive downhole tool includes a housing (54) having a power piston (140) slidably disposed therein. First (160) and second (166) pressure conducting passages communicate a well annulus (142) with first (142) and second (144) sides of the power piston. A retarding device (244) is disposed in the second pressure conducting passage for delaying communication of a sufficient portion of an increase in well annulus pressure to the second side of the power piston for a sufficient time to allow a pressure differential across the power piston to move the power piston from a first position to a second position relative to the housing. A pressure relief means (272) is communicated with the second pressure conducting passage between the power piston and the retarding device for relieving from the second pressure conducting passage a volume of fluid sufficient to permit the power piston to travel to its second position.

IPC 1-7

E21B 34/10; **E21B 49/08**

IPC 8 full level

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CPC (source: EP)

E21B 23/006 (2013.01); **E21B 34/108** (2013.01); **E21B 49/001** (2013.01); **E21B 2200/04** (2020.05)

Cited by

CN110863796A; CN114961643A; EP0518371A3; GB2449961A; US7926574B2; GB2449961B; US7766086B2; WO03004828A1

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