Title (en)
   DOWNHOLE DEVICE

Title (de)
   BOHRLOCHVORRICHTUNG

Title (fr)
   DISPOSITIF DE PUITS

Publication
   EP 2453104 A1 20120516 (EN)

Application
   EP 10797365 A 20100607

Priority
   • RU 2010000294 W 20100607
   • RU 2009126485 A 20090710

Abstract (en)
   The device is used in technical operations during well completion. The device acts as a sealing device by using a seal (5). The seal (5) divides the well into an upper cavity (16) and a lower cavity (17). The seal (5) includes a collet (7) that comprises segments (8), a liner (10), springs (11) and a casing (6). The segments (8) are capable of separating upon interaction with the well equipment (drilling column (19)) and are provided with additional seals (9). The casing (6) is situated in the lower portion of the collet (7) and enables the movement of the segments (8) upon the separation thereof. The seal (5) is situated in a threaded (2, 3) housing (1). The housing (1) is secured in a roller bearing (4). The device further includes an adjustment insert (12) that is capable of interacting with the well equipment upon the installation thereof and of moving the same so as to open the channel of a hydraulic connection (13) between the well opening, the upper cavity, the lower cavity and the producing formation. This technical solution makes it possible to carry out any well completion operation, prevent the inflow of formation fluids and increase the yield of the well, well completion being carried out without the generation of overbalance on the formation. 3 dependent claims, 7 figures.

IPC 8 full level
   E21B 34/14 (2006.01); **E21B 43/00** (2006.01)

CPC (source: EP KR US)
   E21B 33/12 (2013.01 - EP KR US); **E21B 34/14** (2013.01 - KR)

Citation (search report)
   See references of WO 2011005144A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
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