

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
21 December 2007 (21.12.2007)

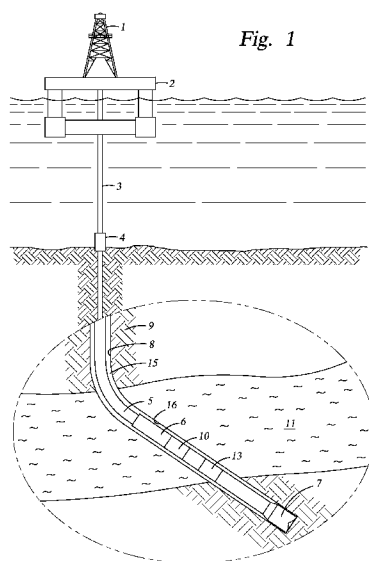
PCT

(10) International Publication Number  
**WO 2007/146889 A3**

- (51) International Patent Classification:  
E21B 43/00 (2006.01)
  - (21) International Application Number:  
PCT/US2007/070902
  - (22) International Filing Date: 11 June 2007 (11.06.2007)
  - (25) Filing Language: English
  - (26) Publication Language: English
  - (30) Priority Data:  
60/804,405 9 June 2006 (09.06.2006) US
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  - (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
  - (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— with international search report

[Continued on next page]

(54) Title: DRILLING FLUID FLOW DIVERTER



(57) Abstract: An embodiment of the apparatus includes a housing having a first flow bore and a second flow bore, the first flow bore having a drilling fluid flowing therein, a device disposed in the second flow bore to receive a fluid flow, and a diverter disposed between the first and second flow bores, the diverter having a first position preventing the drilling fluid from flowing into the second flow bore and a second position allowing a portion of the drilling fluid to flow into the second flow bore and through the device. Another embodiment includes a variable second position directing the drilling fluid into the second flow bore at a variable flow rate. A further embodiment includes a drill collar as the housing and a power generation assembly as the device to receive the fluid flow. Embodiments of a method of diverting a fluid flow in a downhole tool include diverting a portion of a first fluid flow to a second flow bore, and further varying a flow rate of the fluid to the second flow bore.

WO 2007/146889 A3



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**(88) Date of publication of the international search report:**  
30 October 2008

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/70902

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC: E21B 43/00( 2006.01)

USPC: 166/65.1;175/24,25  
 According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
 U.S. : 166/65.1; 175/24,25

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)


**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,839,50 A (TUBEL et al) 24 November 1998 (24/11/1998), see entire document.	1-11,15-17, 19-22

Further documents are listed in the continuation of Box C.       See patent family annex.

* Special categories of cited documents:	
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 21 April 2008 (21.04.2008)	Date of mailing of the international search report <b>30 JUL 2008</b>
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