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[Continued on next page]

(54) Title: THREE-DIMENSIONAL MODELING OF PARAMETERS FOR OILFIELD DRILLING

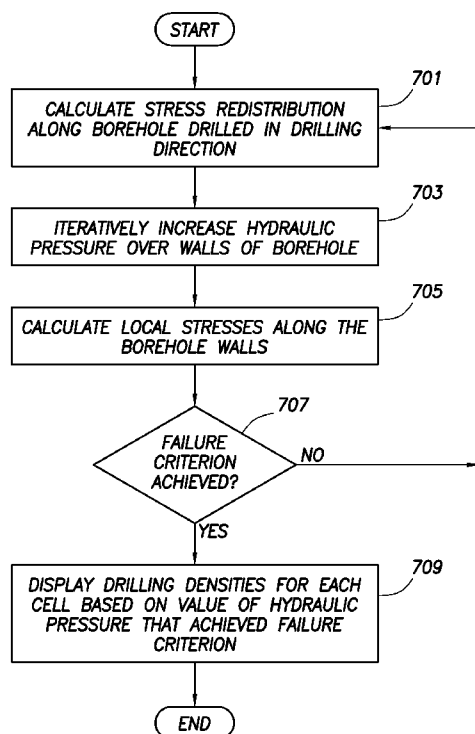


FIG. 7

(57) **Abstract:** A method for three-dimensional modeling of parameters for oilfield drilling. The method includes generating a three-dimensional model of an underground geological region, receiving a starting point for the oilfield drilling, calculating, using the three-dimensional model and an objective function, a drilling direction from the starting point, calculating, using the three-dimensional model, drilling densities for drilling from the starting point, and presenting the drilling direction and the drilling densities.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/024325**A. CLASSIFICATION OF SUBJECT MATTER*****E21B 47/003(2012.01)i, E21B 43/30(2006.01)i, G01V 1/30(2006.01)i***

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)

E21B 47/003; E21B 47/00; E21B 44/00; G06G 7/50; G01V 1/28; G01V 1/40; G01V 1/34; E21B 44/02

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: downhole, three dimensional model, starting point, drilling direction, drilling densities, oilfield three dimensional simulator application, oilfield analysis application

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	US 2009-0043507 A1 (DOMMISSE, ROBIN et al.) 12 February 2009 See paragraphs 0119, 0153, claims 1, 3 and figures 12, 13.	1,8,15 2-7,9-15
Y	US 2010-0175922 A1 (IGNOVA, MAJA et al.) 15 July 2010 See paragraphs 0049 - 0051, 0056 and figures 4A, 4B.	1,8,15
Y	US 2002-0074118 A1 (FISHER, DANNY) 20 June 2002 See paragraphs 0048.	15
A	US 2009-0157367 A1 (MEYER, JOERG H. et al.) 18 June 2009 See paragraphs 0060 - 0064 and figures 1,2.	1-15
A	US 7796468 B2 (KELLOGG, STEPHEN C.) 14 September 2010 See column 9, lines 24 - 39 and figure 3.	1-15

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

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Date of the actual completion of the international search

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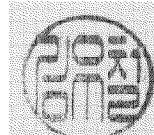
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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