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[Continued on next page]

(54) Title: METHOD OF CALCULATING FORMATION CHARACTERISTICS

(57) Abstract: A method of calculating a formation characteristic includes measuring with at least two detectors spaced apart from each other an intensity of gamma rays, and calculating the formation characteristic by calculating a ratio of the intensity of the gamma rays detected by the two detectors.

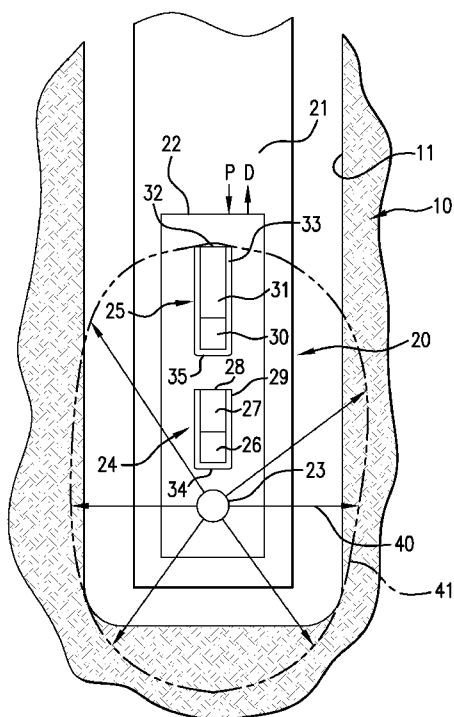


FIG. 1



TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/043222**A. CLASSIFICATION OF SUBJECT MATTER****G01V 5/12(2006.01)i, G01N 23/02(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)

G01V 5/12; G01V 5/10; G01V 5/00

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: gamma, intensity, ratio

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4760252 A (PAUL ALBATS et al.) 26 July 1988 See column 6, line 54 - column 18, line 46 and figures 1-12.	1-20
A	US 7511266 B1 (RONALD E. BOTHNER) 31 March 2009 See column 4, line 16 - column 6, line 6 and figure 1.	1, 9, 15
A	US 2010-0262371 A1 (MOUSTAFA E. ORABY) 14 October 2010 See paragraphs 22-24 and figure 1.	1, 9, 15
A	US 4137450 A (ERIC C. HOPKINSON) 30 January 1979 See column 2, line 26 - column 3, line 42 and figure 1.	1, 9, 15
A	US 4092536 A (MICHAEL P. SMITH) 30 May 1978 See column 2, line 43 - column 5, line 5 and figure 1.	1, 9, 15



Further documents are listed in the continuation of Box C.



See patent family annex.

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2012/043222

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4760252 A	26.07.1988	None	
US 7511266 B1	31.03.2009	CA 2671715 A1 EP 2102689 A2 WO 2008-070103 A2 WO 2008-070103 A3	12.06.2008 23.09.2009 12.06.2008 28.08.2008
US 2010-0262371 A1	14.10.2010	GB 201008624 D0 GB 2468234 A WO 2010-039121 A1	07.07.2010 01.09.2010 08.04.2010
US 4137450 A	30.01.1979	None	
US 4092536 A	30.05.1978	None	