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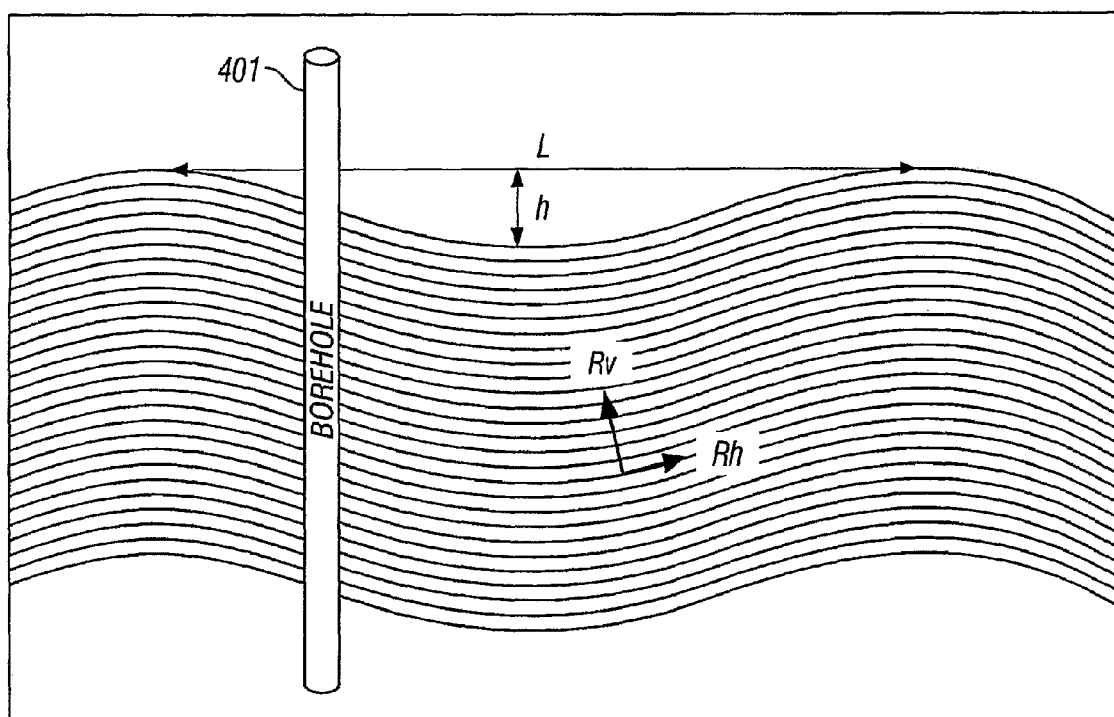
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**Declarations under Rule 4.17:**

— *as to applicant's entitlement to apply for and be granted a  
patent (Rule 4.17(ii))*

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR CORRECTING UNDERESTIMATION OF FORMATION ANISTROPY RATIO



(57) Abstract: Multicomponent induction measurements may underestimate the anisotropy in formations where the bedding changes with distance from the borehole. The measurements may still be used to determine horizontal and vertical resistivity, and to identify complicated bedding structure such as that associated with channel sands and turbidite deposits.

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- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))* (88) **Date of publication of the international search report:**  
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— *with information concerning one or more priority claims considered void*



## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US 07/10229

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - E21B 47/00 (2007.01)

USPC - 73/152.02

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)  
USPC - 73/152.02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
USPC - 73/152.01, 152.02; 702/6

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
PubWEST (USPT, PGPB, EPAB, JPAB); Google Scholar  
Search Terms Used: second, measurement, compare, dip, logging, abnormal, borehole, offset, unconformity, 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 2004/0088114 A1 (Xiao) 06 May 2004 (06.05.2004), para [0004]-[0086].	1, 2, 9, 12, 14, 15, 22, 25
Y		3-8, 10, 11, 13, 16-21, 23, 24, 26, 27
Y	US 6,480,119 B1 (McElhinney) 12 November 2002 (12.11.2002), col. 3, ln 53 - col. 8, ln 11	3-7 and 16-19
Y	US 2005/0201203 A1 (Goloshubin et al.) 15 September 2005 (15.09.2005), para [0054]-[0102]	7, 8, 10, 11, 20, 21, 23, 26, 27
Y	US 2004/0123655 A1 (MacPherson) 01 July 2004 (01.07.2004), para [0024]-[0044]	13
Y	US 2005/0278122 A1 (Tarbarovsky et al.) 15 December 2005 (15.12.2005), para [0005]-[0131]	11 and 24
A	US 2005/0234647 A1 (Haughland) 20 October 2005 (20.10.2005)	1-27
A	US 2005/0044737 A1 (Choi et al.) 03 March 2005 (03.03.2005)	1-27

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