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- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
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- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 08/84891

A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - G01N 3/00 (2009.01) USPC - 73/788 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 - 73/788 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC - 73/788, 760; (see search terms below) Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWest(PGPB,USPT,EPAB,JPAB), Google Scholar, and USPTO Search Terms: wellbore, downhole, bore hole, formation, strength, force, extendable, angle, probe)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ----- Y	US 4,461,171 A (de la Cruz) 24 July 1984 (24.07.1984) entire document especially the Abstract, Fig. 3, col 4, in 31 to col 5, in 2, and col 6, in 22-57	1, 2, and 7 ----- 3-6, and 8-15
Y	US 5,165,274 A (Thiercelin) 24 November 1992 (24.11.1992) entire document especially col 3, in 8-27, col 3, in 28-55, col 4, in 68 to col 5, in 29, Abstract	3, 6, 10, and 15
Y	US 6,234,257 B1 (Ciglenec et al.) 22 May 2001 (22.05.2001) entire document especially col 6, in 44-54	4, 8-13
Y	US 6,164,126 B1 (Ciglenec et al.) 26 December 2000 (26.12.2000) entire document especially col 13, in 25 to col 14, in 6	5, 6, 14, and 15
Y	US 4,692,707 A to Locke et al. 08 September 1987 (08.09.1987) entire document especially col 15, in 15-42	4, and 9
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/>		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "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 04 June 2009 (04.06.2009)		Date of mailing of the international search report <p align="center" style="font-size: 1.5em;">11 JUN 2009</p>
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201		Authorized officer: <p align="center">Lee W. Young</p> PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774