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(54) Title: ATOMIC MAGNETOMETERS FOR USE IN THE OIL SERVICE INDUSTRY

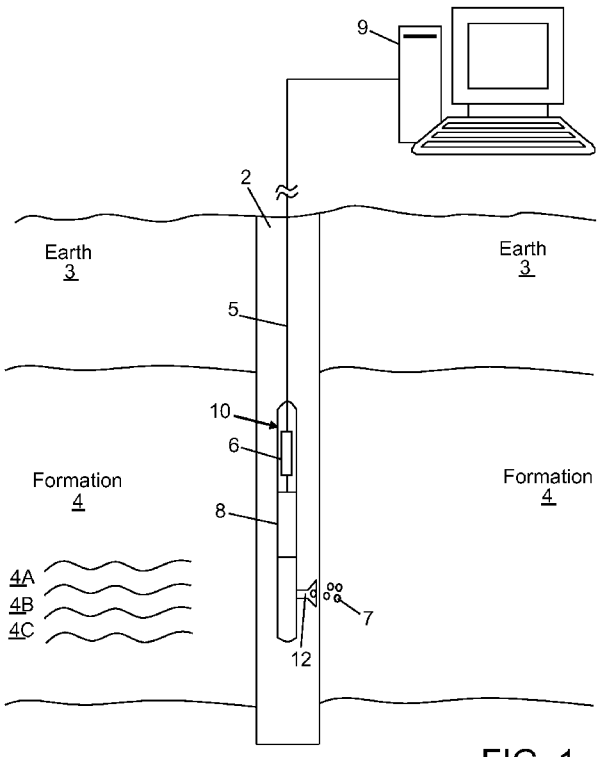


FIG. 1

(57) Abstract: An apparatus for obtaining information from a subterranean environment, the apparatus includes: an atomic magnetometer configured to measure a magnetic field related to the information. An associated method for obtaining the information is also disclosed.

MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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A. CLASSIFICATION OF SUBJECT MATTER

G01V 3/32(2006.01)i, G01V 3/175(2006.01)i, G01V 3/18(2006.01)i, G01V 3/15(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 3/32; G01V 3/00; G01V 3/08

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: atomic, magnetometer, subterranean

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 7145333 B2 (MICHAEL ROMALIS et al.) 05 December 2006 See abstract; column 1,lines 18-27; column 23,line 10 - column 24,line 67;	1-10,16-19
A	claims 1, 32 and figures 1, 10.	11-15,20
Y	US 7489134 B2 (ARCADY REIDERMAN) 10 February 2009	1-10,16-19
A	See abstract; claim 1 and figure 1.	11-15,20
A	US 6107797 A (ABDURRAHMAN SEZGINER) 22 August 2000 See claim 1 and figures 1, 3.	1-20
A	US 7339374 B2 (MARTIN BLANZ) 04 March 2008 See claim 1 and figure 1.	1-20
A	US 2005-0007118 A1 (JOHN KITCHING et al.) 13 January 2005 See abstract; claim 1 and figure 1.	1-20

☐ 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	Date of mailing of the international search report
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Information on patent family members

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