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- (71) Applicant: CGG SERVICES SA [FR/FR]; 27, avenue Carnot, F-91300 Massy (FR).
- (72) Inventor: LY, Chi Vinh; CGG Services SA 27 avenue Carnot, F-91300 Massy (FR).
- (74) Agents: PETIT, Maxime et al.; Ipsilon Brema-Loyer, Le Centralis, 63 Avenue du Général Leclerc, 92340 Bourg-la-Reine (FR).
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Declarations under Rule 4.17:

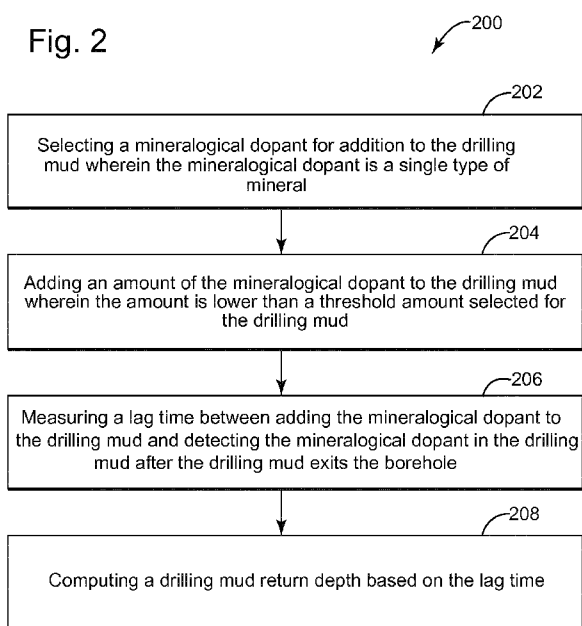
— of inventorship (Rule 4.17(iv))

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[Continued on next page]

(54) Title: DOPING OF DRILLING MUD WITH A MINERALOGICAL COMPOUND



(57) Abstract: Presented are methods and systems for tracking and assessing drilling fluid flow and performance and, accordingly, detecting drilling mud return depth. The drilling mud is injected with a mineralogical dopant in an amount that does not affect the physical or chemical properties of the drilling mud. The doped drilling mud is injected into a known mud pulse and a detector identifies the mud pulse in which the mineralogical dopant emerges from the borehole, allowing calculation of the drilling mud return depth.



— *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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23 July 2015

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2014/063455

A. CLASSIFICATION OF SUBJECT MATTER
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ADD.
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)
G01F E21B

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

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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Further documents are listed in the continuation of Box C.

See patent family annex.

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- "&" document member of the same patent family

Date of the actual completion of the international search 18 May 2015	Date of mailing of the international search report 28/05/2015
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Rampelmann, Klaus
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INTERNATIONAL SEARCH REPORT

International application No
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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