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(71) Applicant (for all designated States except US): **M-I L.L.C.** [US/US]; 5950 North Course Drive, Houston, TX 77072 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **PATEL, Arvind, D.** [US/US]; 11038 Watson Mill Court, Sugar Land, TX 77478 (US). **IRVING, Maribella** [US/US]; 20826 Twila Springs Drive, Houston, Texas 77095 (US).

(74) Agent: **HINKLEY, Sara, K., M.**; M-I L.L.C., 5950 North Course Drive, Houston, TX 77072 (US).

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(54) Title: INVERT EMULSION WELLBORE FLUIDS AND METHOD FOR REDUCING TOXICITY THEREOF

(57) Abstract: A method for reducing the toxicity of an invert emulsion wellbore fluid is disclosed. The method comprises forming an invert emulsion wellbore fluid comprising an oleaginous continuous phase, an aqueous discontinuous phase, and an emulsifying fluid, wherein the emulsifying fluid comprises a nitrogen-containing emulsifying agent and an alkalinity agent, and wherein the invert emulsion wellbore fluid produces an LC50 (SSP) of at least 30,000 parts per million at 3000°F.



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2008/075934**A. CLASSIFICATION OF SUBJECT MATTER****E21B 43/04(2006.01)i, E21B 21/00(2006.01)i, C09K 8/56(2006.01)i, C09K 8/32(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)

IPC8: E21B 43/04, C09K 8/36, 7/02

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 since 1975

Japanese Utility models and applications for Utility Models since 1975

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

eKIPASS(KIPO internal) & keywords: "wellbore", "alkalinity agent", "toxicity"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 7 285 515 B2(GONCALVES et al) 23 OCTOBER 2007 See ABSTRACT and claims 1, 14, 23.	1-19
A	US 5 312 605 A(LEVENDIS et al) 17 MAY 1994 See ABSTRACT, column 4 line 20-25 and claims 1-8.	1-19
A	US 4 589 889 A(SPENCER) 20 MAY 1986 See ABSTRACT and all claims.	1-19
A	US 5 432 152 A(DAWSON et al.) 11 JULY 1995 See ABSTRACT and claim 1.	1-19

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro, Seo-
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Authorized officer

KOO, BON CHEOL

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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