

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
7 May 2009 (07.05.2009)

PCT

(10) International Publication Number
WO 2009/058590 A3(51) International Patent Classification:
E21B 43/26 (2006.01) *C11D 3/37* (2006.01)
C09K 8/60 (2006.01)

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(21) International Application Number:
PCT/US2008/080399

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(22) International Filing Date: 18 October 2008 (18.10.2008)

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/984,172 31 October 2007 (31.10.2007) US

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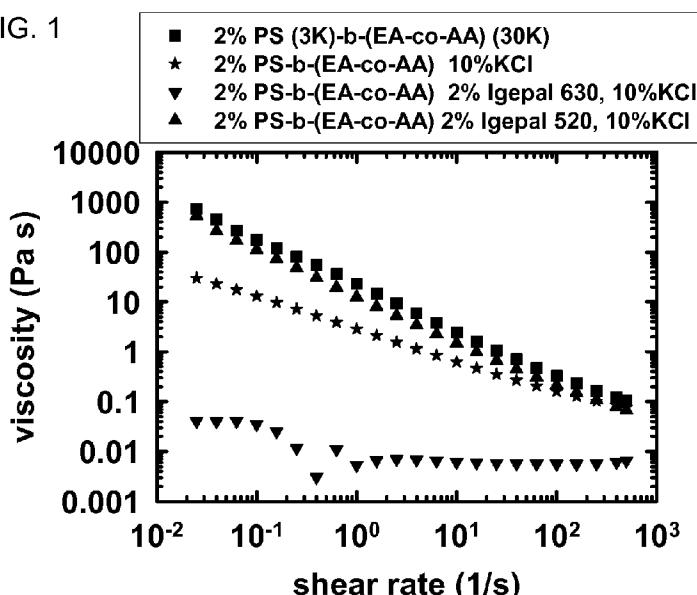
Published:

— with international search report

[Continued on next page]

(54) Title: ADDITION OF NONIONIC SURFACTANTS TO WATER SOLUBLE BLOCK COPOLYMERS TO INCREASE THE STABILITY OF THE COPOLYMER IN AQUEOUS SOLUTIONS CONTAINING SALT AND/OR SURFACTANTS

FIG. 1



WO 2009/058590 A3

(57) Abstract: An aqueous fluid useful for the recovery of crude oil from a subterranean formation, which includes a composition including a mixture of water, a water soluble block copolymer, an inorganic salt and at least one member of the group of a nonionic surfactant having an HLB of less than 12, and methods for using same.



- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
25 June 2009

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2008/080399

A. CLASSIFICATION OF SUBJECT MATTER**E21B 43/26(2006.01)i, C09K 8/60(2006.01)i, C11D 3/37(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 43/22, 43/26, C09K 7/02, C08K 5/05

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: water soluble block copolymer, nonionic surfactant, inorganic salt

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 432 881 A(SYAMALARAO EVANI) 21 FEBRUARY 1984	1-10, 12-14
Y	See the ABSTRACT, column 4 lines 5-20, column 8 line 17-29, and all claims.	11
Y	US 7 287 593 B2(HUTCHINS et al.) 30 OCTOBER 2007	11
A	See the ABSTRACT and columns 3-7.	1-10, 12-14
A	US 4 814 096 A(SYAMALARAO EVANI) 21 MARCH 1989 See the ABSTRACT, column 10 lines 32-65 and all claims.	1-14
A	US 4 541 935 A(VERNON G. CONSTIEN et al.) 17 SEPTEMBER 1985 See the ABSTRACT and claims 1-4.	1-14

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

* Special categories of cited documents:	"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
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"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	

Date of the actual completion of the international search 28 APRIL 2009 (28.04.2009)	Date of mailing of the international search report 28 APRIL 2009 (28.04.2009)
Name and mailing address of the ISA/KR Korean Intellectual Property Office Government Complex-Daejeon, 139 Seonsa-ro, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer KOO, BON CHEOL Telephone No. 82-42-481-5803

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2008/080399

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