

Search history

Search MHEC and cement and (wellbore or borehole) and substit* and degree (Results 5)

1:

Search "fluid loss" and cellulose* and cement and (wellbore or borehole) and (substit* near degree) (Results 66)

2:

Search 2 and (ethyl near cellul*) (Results 34)

3:

Search (3) AND PD=(2014 OR 2006 OR 2007 OR 2008 OR 2009 OR 2011 OR 2013 OR 1973 OR 1974 OR 1975 OR 1976 OR 1977 OR 1978 OR 1981 OR 1986 OR 1987) (Results 6)

Search 2 and temperature (Results 66)

5:

Search 5 and tac=(cellulos* or degree or cement) (Results 63)

6:

Search (6) AND PD=(2014 OR 2013 OR 2012 OR 2007 OR 1987 OR 2006 OR 2011 OR 1986 OR 2008 OR 1976 OR 1977 OR 1984 OR 1985 OR 1988 OR 2001 OR 2009) (Results 24)

7:

1) Family number: 57927126 (US2014352960A)

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Title: AMPHOLYTE POLYMERIC COMPOUNDS IN SUBTERRANEAN APPLICATIONS

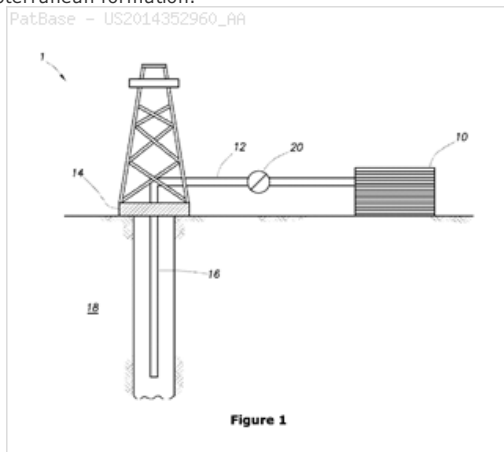
Abstract: Ampholyte polymeric compound that comprises at least one nonionic monomer, at least one sulfonic acid-containing monomer, and at least one cationic monomer may be useful in viscosifying treatment fluids for use in subterranean operations at a concentration of about 0.5 v/v percent to about 30 v/v percent of the treatment fluid. Such operations may involve introducing the treatment fluid into a wellbore penetrating a subterranean formation optionally at a pressure sufficient to create or extend at least one fracture in the subterranean formation.

Classifications:

International (IPC 8-9): C04B24/16 C04B28/02 C09K8/035 C09K8/08 C09K8/12 C09K8/28 C09K8/36 C09K8/42 C09K8/467 C09K8/512 C09K8/52 C09K8/56 C09K8/575 C09K8/588 C09K8/62 C09K8/64 C09K8/68 C09K8/72 C09K8/74 C09K8/76 C09K8/80 C09K8/82 C09K8/88 C9K8/035 C9K8/588 C9K8/68 E21B21/06 E21B43/04 E21B43/16 E21B43/22 E21B43/25 E21B43/26 E21B43/267 (Advanced/Invention); C04B103/00 (Advanced/Non-invention)

CPC: E21B43/16 C09K8/64 C09K8/12 C09K8/502 C09K8/565 C09K8/5756 C09K8/685 C09K8/588 C09K8/28 C09K8/88 E21B21/00 E21B43/00 C09K8/508 C09K8/528 C09K2208/08 C09K2208/24 C09K2208/26 C09K2208/32 C04B24/163 C04B28/02 C04B2103/0062 C09K8/467 C09K8/52 C09K8/62 C09K8/80 C09K2208/28 E21B43/26 C09K8/36 C09K8/725 C09K8/882 C09K8/035 C09K8/42 C09K8/512 C09K8/82 C09K8/887 C09K8/68 C09K8/74 C09K8/76 Y02W30/92

US: 166/278 166/280.2 166/305.1 166/307 166/308.2 166/308.3 166/90.1 507/110 507/121 507/213 507/222 507/226 507/259



Family:

Publication number	Publication date	Application number	Application date
AR096449 AA	20151230	AR2014P102151	20140530
AR096518 AA	20160113	AR2014P102150	20140530
AR099743 AA	20160817	AR2015P100736	20150311
AR101247 AA	20161207	AR2015P102280	20150717
AU2014274393 AA	20141204	AU20140274393	20140527
AU2014274393 BB	20160915	AU20140274393	20140527
AU2014274410 AA	20141204	AU20140274410	20140523
AU2014274410 BB	20161110	AU20140274410	20140523
AU2014386193 AA	20150917	AU20140386193	20141210
AU2014386193 BB	20170112	AU20140386193	20141210
AU2015307245 AA	20160303	AU20150307245	20150422
AU2015307245 BB	20171012	AU20150307245	20150422
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CA2908351 C	20180814	CA20142908351	20140527
CA2908425 AA	20150929	CA20142908425	20140523
CA2908425 C	20171031	CA20142908425	20140523
CA2938279 AA	20160728	CA20142938279	20141210
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GB201517342 A0	20151118	GB20150017342	20140523
GB201622352 A0	20170215	GB20160022352	20150422
GB2526748 A1	20151202	GB20150017342	20140523
GB2529322 A1	20160217	GB20150017244	20140527

GB2543884 A1	20170503	GB20160012565	20141210
GB2553601 A1	20180314	GB20160022352	20150422
MX2015014534 A1	20160526	MX20150014534	20140523
MX2015014612 A1	20160531	MX20150014612	20140527
MX2016010530 A1	20161031	MX20160010530	20141210
PL414670 A1	20160801	PL20140414670	20140527
PL414671 A1	20160801	PL20140414671	20140523
PL418129 A1	20170227	PL20140418129	20141210
US2014352960 AA	20141204	US20130929835	20130628
US2014352962 AA	20141204	US20130929871	20130628
US2014352969 AA	20141204	US20140204506	20140311
US2014367108 AA	20141218	US20140471674	20140828
US2015133347 AA	20150514	US20140292311	20140530
US9695350 BB	20170704	US20130929871	20130628
US9732265 BB	20170815	US20140204506	20140311
US9816022 BB	20171114	US20130929835	20130628
US9834716 BB	20171205	US20140471674	20140828
WO14193756 A1	20141204	WO2014US39368	20140523
WO14193834 A1	20141204	WO2014US39570	20140527
WO15138018 A1	20150917	WO2014US69506	20141210
WO16032578 A1	20160303	WO2015US27069	20150422

Priority:

US20130829609P 20130531 US20130929835 20130628 US20130929871 20130628
US20140204506 20140311 WO2014US39368 20140523 WO2014US39570 20140527
US20140292311 20140530 US20140471674 20140828 WO2014US69506 20141210
WO2015US27069 20150422

Probable Assignee: HALLIBURTON CO

Assignee(s): (std): HALLIBURTON ENERGY SERVICES INC ; HALLIBURTON ENERGY SERV INC ; HALLIBURTON ENERGY SERVICES INC ; HALLIBURTON CO ; SOLVAY USA INC NOVECARE WSP BUSINESS UNIT

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

2) Family number: 53194666 (US2014206583A)

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Title: WELLBORE SERVICING FLUID HAVING HYDROPHOBICALLY MODIFIED POLYMERS

Abstract: Embodiments of the present disclosure include a wellbore servicing fluid that includes a diluent, a hydrophobically modified polymer, and a base. The base provides the wellbore servicing fluid with a pH of greater than 10. The presence of the base in the wellbore servicing fluid helps to minimize changes in the viscosity of the wellbore servicing fluid when a deposit, or a kick, of salt is encountered during the drilling operation.

Classifications:

International (IPC 8-9): C09K8/10 C09K8/588 (Advanced/Invention)

CPC: C09K8/588 C09K8/10

US: 507/216

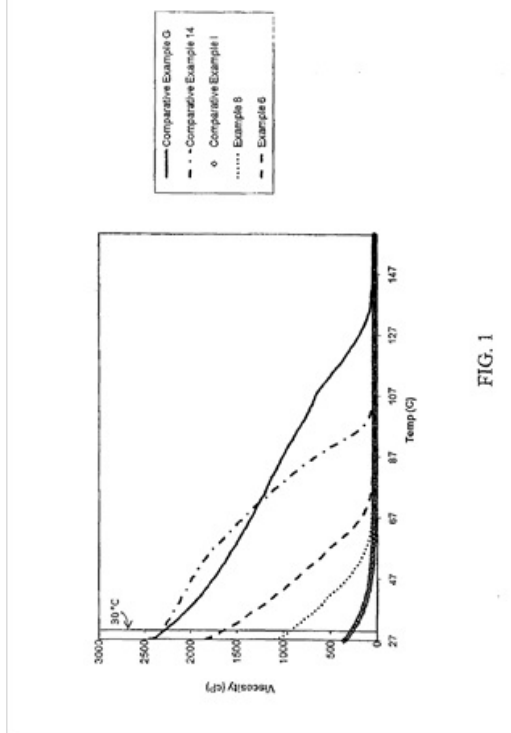


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
AU2012304562 AA	20130314	AU20120304562	20120906
AU2012304562 BB	20160609	AU20120304562	20120906
BR112014005120 A2	20170321	BR20141105120	20120906
CA2847733 AA	20140304	CA20122847733	20120906
CN103781873 A	20140507	CN201280043584	20120906
CO6920304 A2	20140410	CO20140073096	20140404
EP2753671 A1	20140716	EP20120769205	20120906
MX2014002690 A1	20140414	MX20140002690	20120906
RU2014113269 A	20151020	RU20140113269	20120906
US2014206583 AA	20140724	US20120342992	20120906
WO13036616 A1	20130314	WO2012US53928	20120906

Priority:

US20110531824P 20110907 US20120342992 20120906 WO2012US53928 20120906

Probable Assignee: DOW GLOBAL TECHNOLOGIES LLC

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Inventor(s): (std): COLE A WITHAM ; KUHLMAN ROGER L ; MICHAEL K POINDEXTER ; POINDEXTER MICHAEL ; POINDEXTER MICHAEL K ; ROGER L KUHLMAN ; WITHAM COLE ; WITHAM COLE A

Agent(s): PHILLIPS ORMONDE FITZPATRICK; SMART AND BIGGAR; LUZ CLEMENCIA DE PAEZ; BECK GREENER; HUEBSCH JOSEPH C

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

3) Family number: 53428749 (US2014345867A)

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Title: CEMENTING COMPOSITION COMPRISING ANIONICALLY- AND HYDROPHOBICALLY-MODIFIED CELLULOSE ETHERS AND ITS USE

Abstract: Disclosed is a composition and a method for cementing a casing in a borehole of a well using an aqueous cementing composition comprising (a) water, (b) a cementing composition comprising (i) a hydraulic cement, (ii) an anionically- and hydrophobically-modified polymer, (iii) a dispersant, and optionally (iv) one or more other additives conventionally added to aqueous cementing compositions useful in cementing casings in the borehole of wells. Preferably the anionically- and hydrophobically-modified hydroxyethyl cellulose has an ethylene oxide molar substitution of from 0.5 to 3.5, a hydrophobe degree of substitution of from 0.001 to 0.025, an anionic degree of substitution of from 0.001 to 1, and a weight-average molecular weight of from 100,000 to 4,000,000 Daltons and the dispersant is sulfonated polymer, melamine formaldehyde condensate, a naphthalene formaldehyde condensate, a branched or non-branched polycarboxylate polymer. Preferably, the aqueous cementing composition is pumped downwardly into said casing, pumping upwardly into the annulus surrounding said casing until said aqueous composition fills that portion of the annular space desired to be sealed, and then maintaining said aqueous cementing composition in place until the cement sets.

Classifications:

International (IPC 8-9): C04B103/46 C04B24/38 C04B28/02 C04B28/04 C09K8/467 C09K8/487 E21B33/138

E21B33/14 (Advanced/Invention);

C04B103/46 (Advanced/Non-invention)

CPC: C04B28/02 C04B28/04 E21B33/14 C09K8/487 C04B24/383

US: 106/804 166/292 166/294

Family:

Publication number	Publication date	Application number	Application date
AU2012316267 AA	20130404	AU20120316267	20120926
AU2012316267 BB	20151217	AU20120316267	20120926
BR112014007230 A2	20170404	BR20141107230	20120926
CA2849973 AA	20140325	CA20122849973	20120926
CN103958433 A	20140730	CN201280058405	20120926
EP2760801 A1	20140806	EP20120772628	20120926
EP2760801 B1	20181107	EP20120772628	20120926
MX2014003857 A1	20140430	MX20140003857	20120926
RU2014117168 A	20151110	RU20140117168	20120926
RU2596812 C2	20160910	RU20140117168	20120926
US2014345867 AA	20141127	US20120344690	20120926
WO13049094 A1	20130404	WO2012US57177	20120926

Priority:

US20110541001P 20110929 US20120344690 20120926 WO2012US57177 20120926

Probable Assignee: DOW GLOBAL TECHNOLOGIES LLC

Assignee(s): (std): DAU GLOBAL TEKNOLODZHIZ ELELSI ; DOW GLOBAL TECHNOLOGIES INC ; DOW GLOBAL TECHNOLOGIES LLC ; KUHLMAN ROGER L ; WITHAM COLE A ; POINDEXTER MICHAEL K

Inventor(s): (std): COLE A WITHAM ; KUHLMAN ROGER L ; MICHAEL K POINDEXTER ; POINDEXTER MICHAEL K ; POINTDEXTER MICHAEL K ; ROGER L KUHLMAN ; WITHAM COLE A ; VITAM KOUL A ; POJNDEKSTER MAJKL K ; KULMAN RODZHER L

Agent(s): PHILLIPS ORMONDE FITZPATRICK; SMART AND BIGGAR; BECK GREENER; CHRISTY M

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

4) Family number: 55130246 (US2013299170A)

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Title: CALCIUM ALUMINATE CEMENT COMPOSITION CONTAINING A SET RETARDER OF AN ORGANIC ACID AND A POLYMERIC MIXTURE

Abstract: A cement composition for use in an oil or gas well, the cement composition comprises: a calcium aluminate cement; water; an organic acid; and a polymeric mixture comprising: (A) water; (B) citric acid; (C) a first polymer, wherein the first polymer: (i) comprises a cellulose backbone and carboxymethyl functional groups; and (ii) has a molecular weight of less than 100,000; and (D) a second polymer, wherein the second polymer: (i) comprises a lignosulfonate; and (ii) has a molecular weight of less than 100,000, wherein a test composition consisting essentially of: the cement; the water; the organic acid; and the polymeric mixture, and in the same proportions as in the cement composition has a thickening time of at least 5 hours at a temperature of 300° F. (148.9° C.) and a pressure of 10,000 psi (68.9 MPa).

Classifications:

International (IPC 8-9): C04B22/08 C04B24/18 C04B24/24 C04B24/38 C04B28/06 C04B40/00 C09K17/10 C09K8/467

E21B33/13 (Advanced/Invention);
C04B28/06 C09K8/467 (Advanced/Non-invention);
C04B40/00 (Core/Invention)

CPC: C04B28/06 E21B33/13 C04B40/0039 C09K8/467

US: 106/696 106/802 106/805 166/293 166/294 166/302 507/207 507/215 507/260 507/269

PatBase - US2013299170_AA

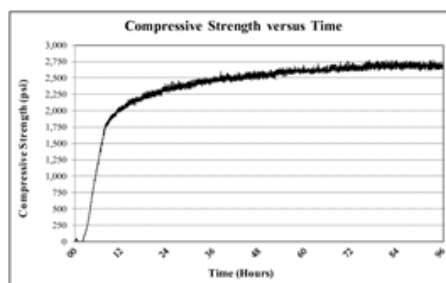


FIGURE 1

Family:

Publication number	Publication date	Application number	Application date
CA2871282 AA	20141022	CA20132871282	20130501
EP2847141 A1	20150318	EP20130787046	20130501
EP2847141 A4	20151230	EP20130787046	20130501
IN07197DN2014 A	20150424	IN2014DN07197	20140827
MX2014013142 A1	20150119	MX20140013142	20130501
MX339472 B	20160527	MX20140013142	20130501
US2013299170 AA	20131114	US20120467421	20120509
US8720563 BB	20140513	US20120467421	20120509
WO13169533 A1	20131114	WO2013US39008	20130501

Priority:

US20120467421 20120509 WO2013US39008 20130501

Probable Assignee: HALLIBURTON CO

Assignee(s): (std): CHAKRABORTY PANKAJ PHANI ; HALLIBURTON CO ; HALLIBURTON ENERGY SERVICES INC ; MELBOUCI MOHAND ; JOSEPH TRISSA ; CHAKRABORTY PANKAJ ; HALLIBURTON ENERGY SERV INC

Assignee(s): HALLIBURTON ENERGY SERVICES INC10200 BELLAIRE BOULEVARDHOUSTONTX77072US ; CHAKRABORTY PANKAJ P ; HERCULES INC

Inventor(s): (std): CHAKRABORTY PANKAJ ; CHAKRABORTY PANKAJ P ; JOSEPH TRISSA ; MELBOUCI MOHAND ; CHAKRABORTY PANKAJ PHANI

Inventor(s): MELBOUCI MOHANDUS ; MOHAND MELBOUCI ; PANKAJ P CHAKRABORTY ; TRISSA JOSEPH ; JOSEPH

Agent(s): NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; KING LAWRENCE; SHERI; CRAIG; SHERI HIGGINS LAW; HIGGINS SHERI L

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

5) Family number: 48669010 (US2011081475A)

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Title: POTATO PRODUCTS WITH ENHANCED RESISTANT STARCH CONTENT AND MODERATED GLYCEMIC RESPONSE AND METHODS THEREOF

Abstract: This application relates to compositions comprising whole-tissue potato products with enhanced resistant starch (RS) content and reduced estimated glycemic index values. Methods of preparing and using whole-tissue potato products with enhanced resistant starch (RS) content and glycemic index values are also disclosed.

Classifications:

International (IPC 8-9): A23K1/00 A23L1/0522 A23L1/216

A23L1/2165 C04B28/10 C04B28/32 C09K8/487 E21B21/00

E21B33/138 (Advanced/Invention);

C04B103/20 C04B103/44 C04B103/50 (Advanced/Non-invention)

International (IPC 1-7): A23L1/216 A23L1/2165

CPC: A23V2002/00 C04B28/32 E21B21/003 E21B33/138 C09K8/487

C04B2103/44 C04B28/105 C04B2103/20 C04B2103/50

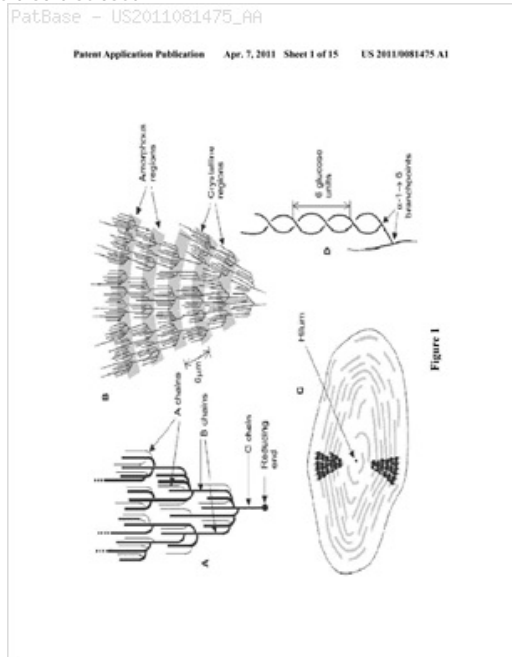
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C04B22/0026 C04B22/124 C04B22/128 C04B22/142 C04B24/04

C04B2103/40

European: A23L1/0522 A23L1/2165 A23L1/216D

US: 1/1 1/1 426/102 426/102P 426/302 426/302S 426/637 426/637P



Family:

Publication number	Publication date	Application number	Application date
AU2010300391 AA	20110407	AU20100300391	20101001
BR112012009359 A2	20171212	BR20121109359	20101001
CA2776476 AA	20110407	CA20102776476	20101001
CL2012000823 A1	20130111	CL20120000823	20120402
EP2482675 A2	20120808	EP20100821348	20101001
EP2482675 A4	20140326	EP20100821348	20101001
JP2013506427 T2	20130228	JP20120532363T	20101001
KR20120089700 A	20120813	KR20127011168	20101001
NZ599365 A	20131129	NZ20100599365	20101001
US2011081475 AA	20110407	US20100896542	20101001
US2012189744 AA	20120726	US20120437516	20120402
US2016198745 AA	20160714	US20150729667	20150603
US2017197884 AA	20170713	US20170472386	20170329
US9078462 BB	20150714	US20100896542	20101001
US9078463 BB	20150714	US20120437516	20120402
US10138165 BB	20181127	US20170472386	20170329
WO11041702 A2	20110407	WO2010US51164	20101001
WO11041702 A3	20111006	WO2010US51164	20101001

Priority:

US20090248350P 20091002	US20100896542 20101001	WO2010US51164 20101001
US20120437516 20120402	US20150729667 20150603	US20150729567 20150603
US20170472386 20170329		

Probable Assignee: OF IDAHO UNIV

Assignee(s): (std): BAKER HUGHES A GE CO LLC ; BAKER HUGHES INC ; HUBER KERRY C ; UNIV IDAHO ; YU WEI CHEN ; UNIV OF IDAHO

Assignee(s): OF IDAHO UNIV ; UNIVERSITY OF IDAHO

Inventor(s): (std): YU WEI CHEN ; WEI CHEN YU ; KERRY C HUBER ; YADAV PRAHLAD KUMAR ; SARMAH PRANJAL ; HUANG TIANPING ; AGRAWAL GAURAV ; HUBER KERRY C

Inventor(s): YU EWI CHEN ; HUBER KERRY C YU EWI CHEN

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; ESTUDIO CLARKE MODET; HOEIBERG SUSANNE; LATHROP AND GAGE LLP; MOSSMAN KUMAR AND TYLER PC; KOZAKIEWICZ CYNTHIA A ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL

IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT
MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST
SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

6) Family number: 32881021 (US2006091572A)

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Title: BIODEGRADABLE RETARDER FOR CEMENTING APPLICATIONS

Abstract: Cement compositions comprising carboxylated inulin and methods of using the same to cement a workspace. In one embodiment, a method of cementing includes providing a cement composition comprising a carboxylated inulin, for example, in a subterranean formation. The method further includes allowing the cement composition to set. In some embodiments, the cement composition has a thickening time of from about 2 hours to about 11 hours. In other embodiments, the cement composition has a viscosity that is about constant for a period of time after the cement composition is placed.

Classifications:

International (IPC 8-9): B28B3/00 C04B16/02 C04B24/10 C04B24/38 C04B28/02 C09K8/46 C09K8/467 (Advanced/Invention); C04B103/00 C04B103/20 C04B111/10 E21B33/13 (Advanced/Non-invention); B28B3/00 C04B24/00 (Core/Invention)

CPC: C04B24/2641 C04B24/06 C04B14/24 C04B2103/50 C04B18/146 C04B14/062 C04B18/082 C04B22/0013 C04B28/02 C04B24/10 C04B24/38 C04B2103/0072 C04B2103/0074 C04B2103/20 C04B211/10 C09K8/467 Y02W30/92 Y02W30/94

European: C04B24/10 C04B24/38 C04B28/02 C09K8/467 M04B103/00W3 M04B103/00W6 M04B103/20 M04B111/10

US: 106/162.1 106/162.100S 106/206.1 106/217.7 106/217.700P 106/609 106/656 106/696 106/708 106/729 106/730 106/804 106/805 166/293 166/294 264/31 264/31P 264/333 264/333S 405/267 405/268 507/204 507/209 507/211 524/2 524/2S 536/1.11

Family:

Publication number	Publication date	Application number	Application date
DE602005023898 D1	20101111	DE200560023898T	20051101
DK1814829 T3	20101220	DK20050799899T	20051101
EP1814829 A2	20070808	EP20050799899	20051101
EP1814829 B1	20100929	EP20050799899	20051101
NO20072138 A	20070802	NO20070002138	20070425
US2006091572 AA	20060504	US20040979681	20041102
US2012180698 AA	20120719	US20120433931	20120329
US8435344 BB	20130507	US20120433931	20120329
US8858860 BB	20141014	US20040979681	20041102
WO06048624 A2	20060511	WO2005GB04208	20051101
WO06048624 A3	20060914	WO2005GB04208	20051101

Priority:

US20040979681 20041102 WO2005GB04208 20051101 US20120433931 20120329

Probable Assignee: HALLIBURTON CO

Assignee(s): (std): BRENNEIS D CHAD ; BRENNEIS DARRELL CHAD ; HALLIBURTON ENERGY SERV INC ; WAIN CHRISTOPHER PAUL ; SANTRA ASHOK K ; REDDY RAGHAVA B ; REDDY B RAGHAVA

Assignee(s): HALLIBURTON ENERGY SERVICES IN ; HALLIBURTON ENERGY SERVICES INC ; HALLIBURTON CO

Inventor(s): (std): BRENNEIS D C ; REDDY B R ; SANTRA ASHOK K ; REDDY RAGHAVA B ; REDDY B RAGHAVA ; BRENNEIS DARRELL CHAD ; BRENNEIS D CHAD

Inventor(s): BRENNEIS D ; REDDY B ; SANTRA ASHOK

Agent(s): CURTIS PHILIP ANTHONY; CRAIG W RODDY HALLIBURTON ENERGY SERVICES; CRAIG W; CONLEY ROSE P C; CONLEY ROSE PC; CRAIG

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

7) Family number: 56731590 (US2015353810A)

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Title: CEMENTING COMPOSITION COMPRISING NONIONIC HYDROPHOBICALLY-MODIFIED CELLULOSE ETHERS AND ITS USE

Abstract: Disclosed is a composition and a method for cementing a casing in a borehole of a well using an aqueous cementing composition comprising (a) water, (b) a cementing composition comprising (i) a hydraulic cement, (ii) a hydrophobically modified polymer, (iii) a dispersant, and optionally (iv) one or more other additives conventionally added to aqueous cementing compositions useful in cementing casings in the borehole of wells. Preferably the hydrophobically modified hydroxyethyl cellulose has an ethylene oxide molar substitution of from 0.5 to 3.5, a hydrophobe degree of substitution of from 0.001 to 0.025, and a weight-average molecular weight of from 500,000 to 4,000,000 Daltons and the dispersant is sulfonated polymer, melamine formaldehyde condensate, a naphthalene formaldehyde condensate, a branched or non-branched polycarboxylate polymer. Preferably, the aqueous cementing composition is pumped downwardly into said casing, pumped upwardly into the annulus surrounding said casing until said aqueous composition fills that portion of the annular space desired to be sealed, and then maintaining said aqueous cementing composition in place until the cement sets.

Classifications:

International (IPC 8-9): C04B24/38 C04B28/02 C09K8/467 C09K8/487 E21B33/14 (Advanced/Invention)

CPC: E21B33/14 C09K8/487 C04B24/383 C04B28/02 C04B24/22 C04B2103/408 C04B2103/46 C09K8/467

US: 1/1 106/638 166/293

Family:

Publication number	Publication date	Application number	Application date
AR093928 AA	20150701	AR2013P104638	20131211
AU2013359857 AA	20140619	AU20130359857	20131206
AU2013359857 BB	20170817	AU20130359857	20131206
BR112015010931 A2	20170711	BR20151110931	20131206
CA2892801 AA	20150528	CA20132892801	20131206
CN104854056 A	20150819	CN201380062646	20131206

CN104854056 B	20180420	CN201380062646	20131206
EP2931676 A1	20151021	EP20130811332	20131206
GC5954 A	20170717	GC2013P025976	20131211
RU2015127801 A	20170119	RU20150127801	20131206
RU2648363 C2	20180326	RU20150127801	20131206
US2015353810 AA	20151210	US20130649332	20131206
US9416051 BB	20160816	US20130649332	20131206
WO14093157 A1	20140619	WO2013US73533	20131206

Priority:

US20120735763P 20121211 US20130649332 20131206 WO2013US73533 20131206

Probable Assignee: DOW GLOBAL TECHNOLOGIES LLC

Assignee(s): (std): DAU GLOBAL TEKNOLODZHIZ ELELSI ; DOW GLOBAL TECHNOLOGIES LLC ; DOW GLOBAL TECHNOLOGIES INC ; DOW GLOBAL TECH LLC

Assignee(s): WITHAM COLE A ; POINDEXTER MICHAEL K ; JONES RAYMOND M ; WATTERS JEFFREY T ; KUHLMAN ROGER L ; WATTERS LARRY T ; DOW CHEMICAL CO ; COMBS NATHAN KYLE ; CSI TECHNOLOGIES LLC

Inventor(s): (std): COMBS NATHAN KYLE ; JONES RAYMOND M ; KUHLMAN ROGER L ; NATHAN KYLE COMBS ; POINDEXTER MICHAEL K ; WATTERS JEFFREY T ; WATTERS LARRY T ; WITHAM COLE A ; VITAM KOUL A ; UOTTERZ LARRI T ; UOTTERZ DZHEFFRI T ; ROGER L KUHLMAN ; RAYMOND M JONES ; POJNDEKSTER MAJL K ; NATHAN K COMBS ; MICHAEL K POINDEXTER ; LARRY T WATTERS ; KULMAN RODZHER L ; KOUBMZ NATAN KAJL ; JEFFREY T WATTERS ; DZHONS REJMOND M ; COLE A WITHAM

Agent(s): MADDEN PATENT AND TRADE MARK ATTORNEYS; PHILLIPS ORMONDE FITZPATRICK; SMART AND BIGGAR; ANDREWS PAUL DAVID; SAUD M A SHAWWAF LAW OFFICE; OOO YURIDICHESKAYA GORODISSKIY I PARTNER FA; CHRISTY M ROBERT

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

8) Family number: 50642607 (US2013118743A)

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Title: NONIONIC HYDROPHOBICALLY SUBSTITUTED CELLULOSE ETHERS

Abstract: Novel nonionic cellulose ethers exhibit a reduced degree of thermal thinning and are efficient thickeners at elevated temperatures. The nonionic cellulose ether has hydroxyethyl groups and is further substituted with one or more hydrophobic substituents. The cellulose ether further has at least one of the properties a), b) or c): a) a retained dynamic viscosity, percent eta80/25, of at least 30 percent, wherein percent eta180/25=[dynamic solution viscosity at 80 degrees centigrade /dynamic solution viscosity at 25 degrees centigrade + 100, the dynamic solution viscosity at 25 degrees centigrade and 80 degrees centigrade being measured as 1 percent aqueous solution; b) a storage modulus of at least 15 Pascals at 25 degrees centigrade and a retained storage modulus, percent G'80/25, of at least 12 percent, wherein percent G'80/25=[storage modulus at 80 degrees centigrade /storage modulus at 25 degrees centigrade] 100, the storage modulus at 25 degrees centigrade and 80 degrees centigrade being measured as a 1 percent aqueous solution; c) a critical association concentration of less than 15 ppm as measured by light-scattering.

Classifications:

International (IPC 8-9): C04B24/38 C04B26/28 C04B28/04 C04B35/636 C08B11/193 C08B11/20 C08L1/28 C09K8/035 C09K8/10 C09K8/467 C09K8/588 C09K8/68 C09K8/90 C10M107/36 C10M145/40 E21B33/13 E21B43/16 E21B43/26 (Advanced/Invention); C04B103/44 (Advanced/Non-invention)

CPC: C08B11/20 E21B33/13 E21B43/16 E21B43/26 C04B24/383 C04B28/04 C04B2103/44 C08B11/193 C08L1/28 C09K8/035 C09K8/467 C09K8/588 C09K8/68 C09K8/90 C10M107/36 C10M145/40 C10M2209/12 C10M2209/123 C10N2230/02

European: C04B24/38B C04B28/04 C08B11/193 C08L1/28 M04B103/44

US: 1/1 106/805 166/292 166/305.1 166/308.1 536/91

PatBase - US2013118743_AA

Patent Application Publication May 16, 2013 Sheet 1 of 3 US 2013/0118743 A1

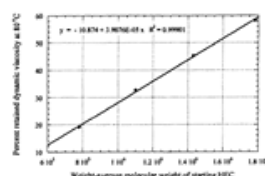


Fig. 1

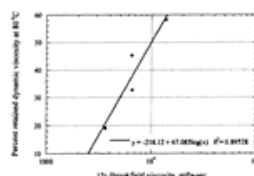


Fig. 2

Family:

Publication number	Publication date	Application number	Application date
BR112013003039 A2	20160614	BR20131103039	20110810
CA2806587 AA	20130124	CA20112806587	20110810
CN103052650 A	20130417	CN201180039471	20110810
CN103052650 B	20160504	CN201180039471	20110810
DE602011032935 D1	20170112	DE201160032935T	20110810
EP2603532 A2	20130619	EP20110749291	20110810
EP2603532 B1	20161130	EP20110749291	20110810
MX2013001791 A1	20130321	MX20130001791	20110810

RU2013110813 A	20140920	RU20130110813	20110810
RU2573491 C2	20160120	RU20130110813	20110810
US2013118743 AA	20130516	US20110811564	20110810
US9266971 BB	20160223	US20110811564	20110810
WO12021625 A2	20120216	WO2011US47257	20110810
WO12021625 A3	20120726	WO2011US47257	20110810

Priority:

US20100373436P 20100813 EP20110749291 20110810 WO2011US47257 20110810
US20110811564 20110810

Probable Assignee: UNION CARBIDE CHEMICALS AND PLASTICS TECHNOLOGY LLC

Assignee(s): (std): DOW GLOBAL TECHNOLOGIES LLC ; UNION KARBAJD KEMIKALZ EHND PLASTIKS TEKNOLODZHI LLS ; PARTAIN EMMET M ; PARTAIN III EMMETT M ; UNION CARBIDE CHEM PLASTIC

Assignee(s): UNION CARBIDE CHEMICALS AND PLASTICS TECHNOLOGY LLC ; UNION CARBIDE CHEMICAL AND PLASTICS TECHNOLOGY CORP ; UNION CARBIDE CHEMICALS AND PLASTICS TECHNOLOGY LLC MIDLAND ; PARTAIN EMMETT M ; UNION KARBAJD KEMIKALZ EHND PLASTIKS TEKNOLODZHILLS

Inventor(s): (std): PARTAIN EMMET M ; PARTAIN III EMMETT M ; PARTAJN EHHMET M ; PARTIAN EMMET M

Inventor(s): EMMET M PARTIAN ; EMMET M PARTAIN ; PARTAIN EMMETT M

Agent(s): SMART AND BIGGAR; RAYNOR JOHN; BECK GREENER; HUBBARD BRIAN

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

9) Family number: 4921932 (US3727687A)

© PatBase

Title: AQUEOUS GELS AND USES THEREOF

Abstract: Improvements in secondary recovery operations for the recovery of oil, and improvements in well drilling operations, are accomplished through the use of aqueous mediums comprising new aqueous gels prepared from water and cellulose ethers.

Classifications:

International (ipc 8-9): B01J19/06 C09K17/32 C09K17/50 C09K8/14 C09K8/20 C09K8/512 C09K8/514 C09K8/58 C09K8/588 C09K8/68 C09K8/72 C09K8/88 C09K8/90 E21B43/22 E21B43/26 E21B43/27 (Advanced/Invention); B01J19/06 C09K17/14 C09K17/40 C09K8/02 C09K8/50 C09K8/58 C09K8/60 E21B43/16 E21B43/25 (Core/Invention)
International (ipc 1-7): B01F17/48 B01J1/24 C08B27/26 C08L1/00 C08L1/26 C08L1/28 C09K7/00 C09K7/02 E02D3/14 E21B21/04 E21B33/13 E21B33/138 E21B43/00 E21B43/16 E21B43/20 E21B43/22 E21B43/26 E21B43/27
CPC: C09K8/74 C09K8/887 E21B43/261 C09K8/68 C09K8/72 C09K8/80 C09K17/32 C09K17/50 Y10S507/903 Y10S507/922 C09K8/588 C09K8/206 C09K8/512 C09K8/514 C09K8/76 B01J19/06 C09K8/685 C09K8/90

European: B01J19/06 C09K17/32 C09K17/50 C09K8/20C C09K8/512 C09K8/514 C09K8/588 C09K8/68 C09K8/68B C09K8/72 C09K8/74 C09K8/76 C09K8/80 C09K8/90 E21B43/26P
US: 106/193R 106/197.01 166/269 166/27.4 166/275 166/28.1 166/28.3 166/281 166/283 166/294 166/305.1 166/307 166/308.5 166/400 252/8.05 252/8.55C 405/264 507/112 507/113 507/114 507/215 507/236 507/244 507/263 507/903 507/922 516/106

PatBase - CA976737_A1

**SUBSTITUTE
REPLACEMENT**

SECTION is not Present

Cette Section est Absente

Family:

Publication number	Publication date	Application number	Application date
CA975149 A1	19750930	CA19720145696	19720626
CA976737 A1	19751028	CA19720145698	19720626
DE2231163 A1	19730118	DE19722231163	19720626
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DE2231163 C3	19810716	DE19722231163	19720626
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NL158395 B	19781115	NL19720009146	19720630
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US3919849 A	19751118	US19730388542	19730815

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Priority:

US19710159052 19710701 US19720224921 19720209 US19720224956 19720209
US19720301953 19721030 US19720318702 19721227 US19730372242 19730621
US19730388542 19730815 US19740489749 19740718

Probable Assignee: PHILLIPS PETROLEUM CO

Assignee(s): (std): PHILLIPS PETROLEUM CO

Assignee(s): PHILLIPS PETROLEUM CO 74004 BARTLESVILLE OKLA US ; PHILLIPS PETROLEUM CO US ; PHILLIPS PETROLEUM COMPANY ; PHILLIPS PETROLEUM CO BARTLESVILLE OKLA V ST A ; PHILLIPS PETROLEUM COMPANY BARTLESVILLE OKLAHOMA VER ST V AM ; CLAMPITT RICHARD L ; DRILLING SPECIALTIES CO ; DRILLING SPECIALTIES CO A CORP OF DE ; HESSERT JAMES E

Inventor(s): (std): CLAMPITT R ; HESSERT JAMES EDWARD ; HESSERT JAMES E ; CLAMPITT RICHARD LEE ; HESSERT J ; CLAMPITT RICHARD L

Inventor(s): CLAMPITT RICHARD LEE BARTLESVILLE OKLA ; CLAMPITT R US ; HESSERT J US ; HESSERT JAMES EDWARD BARTLESVILLE OKLA

10) Family number: 55667345 (US2015184059A)

© PatBase

Title: AQUEOUS CEMENT COMPOSITIONS INCORPORATING PARTICLES THAT ARE ACTIVATED TO CONTROL RHEOLOGY WHEN WATER SOLUBLE PORTIONS OF THE PARTICLES ARE RELEASED IN THE PRESENCE OF WATER

Abstract: The present invention provides strategies for improved control of fluid loss, hydration, settling, and separation of aqueous cementing compositions over a wide temperature and time range. The present invention is based at least in part upon water-effusing particles used as additives for the compositions, wherein the particles are activated to control rheology when water soluble portions of the particles are released in the presence of water.

Classifications:

International (IPC 8-9): C04B16/02 C04B18/02 C04B24/02

C04B24/38 C04B40/06 C09K8/46 C09K8/487

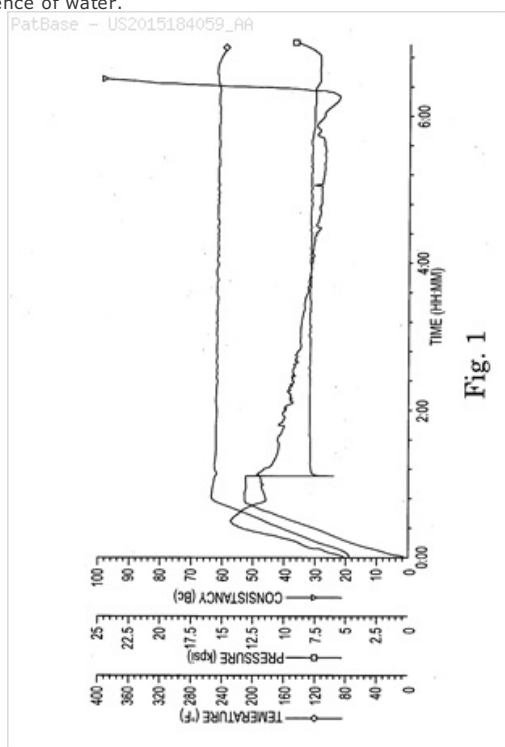
E21B33/138 (Advanced/Invention);

C04B103/44 (Advanced/Non-invention)

CPC: C04B40/0633 C09K8/487 C09K8/46 E21B33/138 C04B18/022

C04B16/02 C04B24/02 C04B24/38 C04B40/06 C04B2103/44

US: 106/728 166/293



Family:

Publication number	Publication date	Application number	Application date
AR093755 AA	20150624	AR2013P102550	20130718
AU2013292701 AA	20140123	AU20130292701	20130717
AU2013292701 BB	20161208	AU20130292701	20130717
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CN104768895 A	20150708	CN201380048310	20130717
CN104768895 B	20180814	CN201380048310	20130717
CO7180202 A2	20150209	CO20150007943	20150116
EP2874965 A1	20150527	EP20130742358	20130717
GC6782 A	20171224	GC2013P024978	20130717
MX2015000819 A1	20150721	MX20150000819	20130717
RU2015105171 A	20160910	RU20150105171	20130717
RU2634671 C2	20171102	RU20150105171	20130717
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WO14014983 A1	20140123	WO2013US50806	20130717

Priority:

US20120672537P 20120717 US20130415220 20130713 WO2013US50806 20130713
WO2013US50806 20130717

Probable Assignee: DOW GLOBAL TECHNOLOGIES LLC

Assignee(s): (std): DAU GLOBAL TEKNOLODZHIZ ELELSI ; DOW GLOBAL TECH LLC ; DOW GLOBAL TECHNOLOGIES INC ; DOW GLOBAL TECHNOLOGIES LLC ; KUHLMAN ROGER ; WITHAM COLE ; THEUERKAUF JORG ; RADLER MICHAEL ; POINDEXTER MICHAEL

Inventor(s): (std): JRG DR THEUERKAUF ; KUHLMAN ROGER ; POINDEXTER MICHAEL ; RADLER MICHAEL ; THEUERKAUF JORG ; WITHAM COLE ; VITAM KOUL ; TOJERKAUF JORG ; ROGER KUHLMAN ; RADLER MAJKL ; POJNDEKSTER MAJKL ; MICHAEL RADLER ; MICHAEL POINDEXTER ; KULMAN RODZHER ; JORG THEUERKAUF ; COLE WITHAM

Agent(s): PHILLIPS ORMONDE FITZPATRICK; SMART AND BIGGAR; SAMPSON EIMEAR; SAUD M A SHAWWAF LAW OFFICE; OOO YURIDICHESKAYA GORODISSKIJ I PARTNERY FA; KAGAN DAVID B ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

11) Family number: 50642609 (US2013130949A) © PatBase

Title: WELLBORE SERVICING FLUID COMPRISING A CELLULOSE ETHER

Abstract: A cellulose ether having (i) one or more substituents selected from the group consisting of methyl, hydroxyethyl and hydroxypropyl, (ii) one or more hydrophobic substituents, and (iii) one or more cationic, tertiary amino, or anionic substituents, and having a retained dynamic viscosity, percent eta80/25, of at least 30 percent, wherein percent eta80/25= [dynamic solution viscosity at 80 degrees centigrade /dynamic solution viscosity at 25 degrees centigrade]x100, the dynamic solution viscosity at 25 degrees centigrade and 80 degrees being measured as 1 percent aqueous solution, is useful for modifying the viscosity of a composition selected from the group consisting of wellbore servicing fluids, cementitious formulations, ceramics, metal working fluids and cutting fluids.

Classifications:

International (IPC 8-9): C04B24/38 C04B28/02 C04B35/636 C08B11/08 C08B11/12 C08B11/14 C08B11/145 C08B11/193 C08B11/20 C08L1/28 C09K8/035 C09K8/487 C09K8/514 (Advanced/Invention)

CPC: C08B11/193 C04B24/383 C04B28/02 C04B35/6365 C08B11/08 C08B11/12 C08B11/14 C08B11/145 C08B11/20 C08L1/284 C08L1/286 C08L1/288 C09K8/035 C09K8/487 C09K2208/00

European: C04B24/38B C04B28/02 C04B35/636B C08B11/08 C08B11/12 C08B11/14 C08B11/145 C08B11/20 C08L1/28D C08L1/28F C08L1/28H C09K8/035 C09K8/487

US: 1/1 106/805 507/214 507/216 536/44 536/91

Family:

Publication number	Publication date	Application number	Application date
BR112013003041 A2	20160614	BR20131103041	20110810
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CN103068949 A	20130424	CN201180039473	20110810
CN103068949 B	20160106	CN201180039473	20110810
EP2603554 A2	20130619	EP20110751714	20110810
MX2013001795 A1	20130321	MX20130001795	20110810
MX344782 B	20170106	MX20130001795	20110810
RU2013110814 A	20140920	RU20130110814	20110810
RU2574437 C2	20160210	RU20130110814	20110810
US2013130949 AA	20130523	US20110811575	20110810
US9266969 BB	20160223	US20110811575	20110810
WO12021626 A2	20120216	WO2011US47258	20110810
WO12021626 A3	20120518	WO2011US47258	20110810

Priority:

US20100373422P 20100813 US20110811575 20110810 WO2011US47258 20110810

Probable Assignee: UNION CARBIDE CHEMICALS AND PLASTICS TECHNOLOGY LLC

Assignee(s): (std): DOW GLOBAL TECHNOLOGIES LLC ; KREEGER RUSSELL L ; PARTAIN EMMET M ; PARTAIN III EMMETT M ; UNION CARBIDE CHEM PLASTIC ; UNION CARBIDE CHEMICALS AND PLASTICS TECH LLC

Assignee(s): UNION CARBIDE CHEMICALS AND PLASTICS TECHNOLOGY LLC ; UNION CARBIDE CHEMICALS AND PLASTICS TECHNOLOGIES LLC ; PARTAIN EMMETT M

Inventor(s): (std): EMMET M PARTAIN ; KREEGER RUSSEL L ; KREEGER RUSSELL L ; PARTAIN EMMET M ; PARTAIN III EMMETT M ; RUSSELL L KREEGER

Inventor(s): PARTAIN EMMETT M ; RUSSEL L KREEGER

Agent(s): SMART AND BIGGAR; RAYNOR JOHN; HUBBARD BRIAN

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

12) Family number: 33212916 (US2006182703A) © PatBase

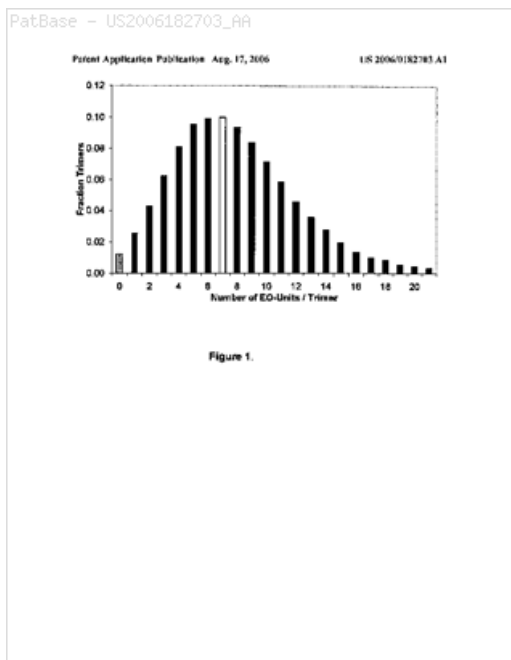
Title: BLOCKY HYDROXYETHYLCELLULOSE, DERIVATIVES THEREOF, PROCESS OF MAKING, AND USES THEREOF

Abstract: This invention relates to non-uniformly substituted ("blocky") hydroxyethylcelluloses (HECs) and derivatives thereof that exhibit associative behavior in both neat solutions and in filled systems. The HECs and derivatives thereof exhibit unique and highly desirable rheology and are more efficient in thickening aqueous systems than prior art HEC products. These blocky HECs can be distinguished from prior art and commercial HEC products by having an unsubstituted anhydroglucose trimer ratio (U3R) greater than 0.21 and the hydroxethyl molar substitution greater than about 1.3 and less than about 5. This invention also relates to processes for making blocky HEC and uses thereof in functional systems.

Classifications:

International (IPC 8-9): A61K47/38 A61K8/73 A61K9/16 A61K9/20 A61K9/48 A61Q1/04 A61Q11/00 A61Q19/00 A61Q3/02 A61Q5/00 C04B24/38 C04B26/28 C08B11/08 C08B11/145 C08B11/15 C08B11/20 C08B15/00 C08L1/08 C08L1/26 C08L1/28 C09D101/02 C09D101/08 C09D101/26 C09D101/28 C09D11/00 C09D201/00 C09D5/02 C09K3/00 C09K8/10 C10M145/40 C11D3/00 C11D3/382 D21H17/26 D21H19/52 E04F15/12 E21B21/00 (Advanced/Invention);

C09K3/00 E21B21/00 (Advanced/Non-invention);
A61K47/38 A61K8/72 A61K8/73 A61K9/16 A61K9/20 A61K9/48
A61Q1/02 A61Q19/00 A61Q3/02 A61Q5/00 C08B11/00 C08B11/08
C08B15/00 C08L1/00 C09D101/00 C09D11/00 C09D201/00
C09D5/02 C09K8/02 C11D3/38 D21H17/00 D21H19/00
E04F15/12 (Core/Invention);
C09K3/00 E21B21/00 (Core/Non-invention)
International (IPC 1-7): A61K8/73 C08B 11/08 C08B11/08
C08B11/20 C08B15/00 C08L1/08 C08L1/28 C09D 11/00
C09D101/28
CPC: A61K8/731 A61Q5/06 A61Q5/12 A61Q19/00 C04B24/383
C04B28/02 C04B2103/44 C04B2111/00672 C08B11/20 C08L1/284
C09D11/08 C09D101/284 C09K8/10 C09K8/467 C09K8/514
C08B11/08 C08B15/00 C08L1/08
European: A61K8/73C A61Q19/00 A61Q5/12 C04B24/38B
C04B28/02 C08B11/08 C08B11/20 C08B15/00 C08L1/08 C08L1/28D
C09D101/28D C09D11/08 C09K8/10 C09K8/467 C09K8/514
K61Q5/06 K61Q5/12 M04B103/44 M04B111/00T10B
US: 106/31.36 106/31.36S 106/726 106/726S 424/70.13
424/70.130P 536/95 536/95S



Family:

Publication number	Publication date	Application number	Application date
AR053682 AA	20070516	AR2006P100563	20060216
AT405608 E	20080915	AT20060735129T	20060214
BRPI0607869 A2	20091020	BR2006PI07869	20060214
BRPI0607869 B1	20180206	BR2006PI07869	20060214
CA2598068 AA	20070816	CA20062598068	20060214
CA2598068 C	20111129	CA20062598068	20060214
CN101160350 A	20080409	CN200680012814	20060214
CN101160350 B	20110622	CN200680012814	20060214
DE602006002372 D1	20081002	DE200660002372T	20060214
EP1858970 A1	20071128	EP20060735129	20060214
EP1858970 B1	20080820	EP20060735129	20060214
EP1858970 B2	20161005	EP20060735129	20060214
ES2309960 T3	20081216	ES20060735129T	20060214
ES2309960 T5	20170405	ES20060735129T	20060214
IN06390DN2007 A	20070831	IN2007DN06390	20070817
IN270947 B	20160129	IN2007DN06390	20070817
JP2008535937 T2	20080904	JP20070556261T	20060214
JP5883206 B2	20160309	JP20070556261T	20060214
KR101276518 B1	20130625	KR20077021221	20060214
KR20070107769 A	20071107	KR20077021221	20060214
MX2007009936 A1	20071010	MX20070009936	20060214
RU2007134407 A	20090327	RU20070134407	20060214
RU2410403 C2	20110127	RU20070134407	20060214
TH63993 B	20180803	TH20061000675	20060216
TH82167 A	20070104	TH20061000675	20060216
US2006182703 AA	20060817	US20060353621	20060214
US8709390 BB	20140429	US20060353621	20060214
WO06088953 A1	20060824	WO2006US05320	20060214

Priority:

US20050653864 20050217 US20050653864P 20050217 EP20060735129 20060214
US20060353621 20060214 WO2006US05320 20060214

Probable Assignee: HERCULES LLC

Assignee(s): (std): ARISZ PETRUS WILHELMUS FRANCIS ; ARISZ PETRUS WILHELMUS FRANCISCUS ; HERCULES INC ; LUSVARDI KATE M ; NGUYEN TUYEN T

Assignee(s): ISP INVESTMENTS INC ; AQUALON CO ; CREDIT SUISSE CAYMAN ISLANDS BRANCH WAS KNOWN CREDIT SUISSE FIRST BOSTON COLLATERAL AGENT AS ; BANK OF AMERICA NA AS ADMINISTRATIVE AGENT ; CREDIT SUISSE CAYMAN ISLANDS BRANCH WAS KNOWN AS C ; CREDIT SUISSE CAYMAN ISLANDS BRANCH WAS KNOWN AS CREDIT SUISSE FIRST BOSTON AS COLLATERAL AGENT.. ; HERCULES LLC ; BANK OF AMERICA NA ; CREDIT SUISSE CAYMAN ISLANDS BRANCH WAS KNOWN C AS ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS ; BANK OF NOVA SCOTIA ADMINISTRATIVE AGENT AS ; GERKULES INKORPOREJTED ; ARISZ PETRUS WILHELMUS FRANCISCUS ARISZ ; ASHLAND INC ; ASHLAND LICENSING AND INTELLECTUAL PROPERTY LLC

Inventor(s): (std): LUSVARDI KATE M ; LUSVARDI KATE ; KATE M LUSVARDI ; ARISZ PETRUS WILHELMUS FRANCISCUS ARISZ ; ARISZ PETRUS WILHELMUS FRANCISCUS ; ARISZ PETRUS WILHELMUS FRANCIS ; PETRUS WILKHELMUS FRANSISKUS ARIS ARIS ; NGUJEN TUYEN T ; LUSVARDI KEJT M ; FRANCIS ARISZ PETRUS WILHELMUS ; PETRUS WILHELMUS FRANCISCUS ARISZ ; NGUYEN TUYEN T ; NGUYEN TUYEN ; TUYEN T NGUYEN

Inventor(s): PETRUS-WILKHELMUS-FRANSISKUS-ARIS ARIS ; PETRUS WILHELMUS FRANCELSCUS ARLSZ ARISZ

Agent(s): MOFFAT AND CO; HOFFMANN EITLE; DE ELZABURU ALBERTO; ONO SHINJIRO; CHIBA AKIO; NOYA HIROAKI; TOMITA HIROYUKI; KOBAYASHI YASUSHI; HERCULES INC; JOANNE; MICHAEL; SHAORONG

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI

Publication number	Publication date	Application number	Application date
AR051365 AA	20070110	AR2005P103047	20050722
CA2574498 AA	20070119	CA20052574498	20050720
CA2574498 C	20110125	CA20052574498	20050720
CN1989219 A	20070627	CN200580024553	20050720
CN1989219 B	20120425	CN200580024553	20050720
EP1769046 A1	20070404	EP20050774721	20050720
MX2007000843 A1	20081024	MX20070000843	20050720
US2006019834 AA	20060126	US20040896672	20040722
US7384892 BB	20080610	US20040896672	20040722
WO06014717 A1	20060209	WO2005US25716	20050720

Priority:

US20040896672 20040722 WO2005US25716 20050720

Probable Assignee: HERCULES LLC

Assignee(s): (std): MELBOUCI MOHAND ; SAU ARJUN C ; HERCULES INC

Assignee(s): ISP INVESTMENTS INC ; CREDIT SUISSE CAYMAN ISLANDS BRANCH WAS KNOWN CREDIT SUISSE FIRST BOSTON COLLATERAL AGENT AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH was KNOWN AS C ; CREDIT SUISSE CAYMAN ISLANDS BRANCH WAS KNOWN AS CREDIT SUISSE FIRST BOSTON AS COLLATERAL AGENT.. ; HERCULES LLC ; CREDIT SUISSE CAYMAN ISLANDS BRANCH WAS KNOWN C AS ; BANK OF NOVA SCOTIA ADMINISTRATIVE AGENT AS ; AQUALON CO ; ASHLAND INC ; ASHLAND LICENSING AND INTELLECTUAL PROPERTY LLC ; BANK OF AMERICA NA ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS ; BANK OF AMERICA NA AS ADMINISTRATIVE AGENT

Inventor(s): (std): MELBOUCI MOHAND ; MELBOUCI MOHAND SAU ARJUN C ; SAU ARJUN C ; MOHAND MELBOUCI

Inventor(s): ARJUN C SAU ; SAU ARJUN

Agent(s): MOFFAT AND CO; HERCULES INC; OFLYNN OBRIEN ROBERT; ROBERT

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

15) Family number: 4441785 (US4462836A)

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Title: Cement composition and method of cement casing in a well

Abstract: A novel cement composition for the preparation of a novel aqueous slurry useful in cementing casing in the borehole of a well comprising (1) cement, (2) (a) a hydroxyethylcellulose ether or (2) (b) a mixture of a hydroxyethylcellulose ether and a hydroxypropylcellulose ether, (3) a polysaccharide produced as a result of microbial action and (4) a dispersant.

Classifications:

International (IPC 8-9): C04B24/38 C04B28/02 C09K8/42 C09K8/46 C09K8/487 (Advanced/Invention);

C04B24/00 C04B28/00 C09K8/42 (Core/Invention)

International (IPC 1-7): C04B24/04 C04B24/38 C04B7/352 C04B7/353 E21B33/14

CPC: C04B2103/46 C09K8/487 C04B28/04 C04B2103/0028 C04B2103/0036 C09K8/467 C04B24/383 C04B28/02 C09K8/42 C09K8/46

European: C04B24/38B C04B28/02 C09K8/42 C09K8/46 C09K8/487 E21B33/13B M04B103/46

US: 106/720 106/726 106/729 106/730 106/92 106/93 166/293

Family:

Publication number	Publication date	Application number	Application date
US4462836 A	19840731	US19830466550	19830215
US4462837 A	19840731	US19830466551	19830215
US4573534 A	19860304	US19840650071	19840612
US4662943 A	19870505	US19840684659	19840612

Priority:

US19830466550 19830215 US19830466551 19830215 US19830518091 19830728
US19840650071 19840612 US19840684659 19840612

Probable Assignee: CHEVRON RESEARCH CO

Assignee(s): (std): CHEVRON RES ; GULF OIL CORP

Assignee(s): GULF OIL A PA CORP CORP ; CHEVRON USA INC ; CHEVRON USA INC A CORP OF PA ; GULF OIL A CORP OF PA CORP ; CHEVRON RESEARCH CO ; CHEVRON RESEARCH CO A CORP OF DE ; CHEVRON RESEARCH CO SAN FRANCISCO CA A CORP OF DE

Inventor(s): (std): BAKER WILFORD S ; HARRISON JAMES J

16) Family number: 44262107 (US2010018708A)

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Title: CONTROL OF THE PROPERTIES OF CEMENT SLURRIES OF NORMAL DENSITIES WITH OPTIMIZED POLYMERS COMBINATION

Abstract: The invention discloses a cement slurry composition for cementing a well comprising: an hydraulic cement, water and a combination made of a cellulosic polymer and an acrylamido-methyl-propane sulfonate co- or ter-polymer, wherein the density of said cement slurry is above 1700 kg/m3.

Classifications:

International (IPC 8-9): C04B28/04 C04B7/19 C09K8/42 C09K8/46 E21B33/13 E21B33/14 (Advanced/Invention);

C04B28/00 C09K8/42 E21B33/13 (Core/Invention)

CPC: C04B28/04 C09K8/46

European: C04B28/04 C09K8/46

US: 106/713 106/714 106/726 106/727 106/789 106/819 106/823 166/277 166/295 166/295S 507/209 507/214 507/216 507/225 507/226 507/269 523/130 523/130S

Family:

Publication number	Publication date	Application number	Application date
EP2147902 A1	20100127	EP20080290728	20080724
US2010018708 AA	20100128	US20090499870	20090709
US8124569 BB	20120228	US20090499870	20090709
WO10009830 A1	20100128	WO2009EP05095	20090708

Priority:

EP20080290728 20080724

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP**Assignee(s):** (std): KHAN TARIQ MEHMOOD ; PIOT BERNARD ; PRAD RES AND DEV LTD ; RAHMAN SITI HUMAIRAH ABD ; SCHLUMBERGER SERVICES PETROL ; SCHLUMBERGER HOLDINGS ; SCHLUMBERGER TECHNOLOGY BV ; SCHLUMBERGER CA LTD ; SCHLUMBERGER TECHNOLOGY CORP**Assignee(s):** SCHLUMBERGER HOLDINGS LTD ; SERVICES PETROLIERS SCHLUMBERGER ; SCHLUMBERGER CANADA LTD ; PRAD RESEARCH AND DEVELOPMENT LTD**Inventor(s):** (std): KHAN TARIQ MEHMOOD ; PIOT BERNARD ; RAHMAN SITI HUMAIRAH ABD ; SITI HUMAIRAH ABD RAHMAN**Agent(s):** RZANIAK MARTIN; SCHLUMBERGER OILFIELD SERVICES; MYRON; DAVID; ROBIN; VANDERMOLLEN MATTHIEU**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**17) Family number: 33327770 (US2006199742A)**

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Title: WATER-SOLUBLE, LOW SUBSTITUTION HYDROXYETHYLCELLULOSE, DERIVATIVES THEREOF, PROCESS OF MAKING, AND USES THEREOF

Abstract: This invention relates to water-soluble hydroxyethylcelluloses (HECs) and derivatives thereof having a hydroxyethyl molar substitution (HE-MS) from about 0.7 to 1.3. These HECs are more efficient in thickening aqueous systems than prior art HEC products and show unique rheology in low water activity systems. These HECs can be distinguished from prior art and commercial HEC products by having an unsubstituted anhydroglucose trimer ratio (U3R) less than 0.21 and a water solubility greater than 90 wt percent. This invention also relates to a unique continuous caustic reduction hydroxyethylation process for making the water-soluble, lowly substituted HECs and uses thereof in functional systems.

Classifications:

International (IPC 8-9): A61K47/38 A61K8/73 A61K9/16 A61K9/20 A61K9/48 A61Q11/00 A61Q19/00 A61Q3/00 A61Q5/00 C04B26/28 C08B11/08 C08L1/04 C08L1/26 C08L1/28 C09D101/02 C09D101/26 C09D11/02 C09D163/00 C09D167/00 C09D175/04 C09D183/04 C09D201/00 C09D5/02 C09D7/12 C09J101/26 C09J11/08 C09J201/00 C09K3/10 C09K8/10 C10M145/40 C11D3/00 C11D3/22 (Advanced/Invention);

E21B43/00 (Advanced/Non-invention);

A61K47/38 A61K8/72 A61K9/16 A61K9/20 A61K9/48 A61Q11/00 A61Q19/00 A61Q3/00 A61Q5/00 C08B11/00 C08L1/00 C09D101/00 C09D11/02 C09D163/00 C09D167/00 C09D175/04 C09D183/04 C09D201/00 C09D5/02 C09D7/12 C09J101/00 C09J11/00 C09J201/00 C09K3/10 C11D3/22 (Core/Invention)

International (IPC 1-7): C08B11/08

CPC: C09D7/43 C08B11/08 A61K8/731 A61K47/38 A61Q5/12 A61Q11/00 C04B24/383 C04B26/06 C04B2103/0053 C04B2103/44 C04B2103/46 C04B2111/00663 C08L1/284 C08L1/32 C09K3/00 C09K8/10 C09K8/206 C09K8/487 C09K8/514 C09K8/90 C11D3/225 C11D3/227 D21H19/52

European: A61K8/73C A61Q11/00 A61Q5/12 C04B24/38B C04B26/06 C08B11/08 C08L1/28D C08L1/32 C09D7/00D C09K3/00 C09K8/10 C09K8/20C C09K8/487 C09K8/514 C09K8/90 C11D3/22E10 C11D3/22E6 D21H19/52 K61K47/38 M04B103/00P8 M04B103/44 M04B103/46 M04B111/00T10

US: 507/114 507/114P

PatBase - US2006199742_AA

Patent Application Publication Sep. 7, 2006 US 2006/0199742 A1

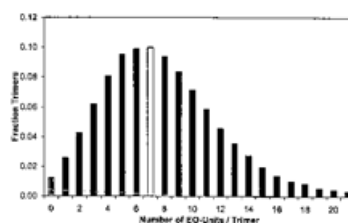


Figure 1

Family:

Publication number	Publication date	Application number	Application date
AR053823 AA	20070523	AR2006P100775	20060301
BRPI0608250 A2	20091208	BR2006PI08250	20060227
CA2599982 AA	20070831	CA20062599982	20060227
CN101171264 A	20080430	CN200680015134	20060227
CN101171264 B	20120111	CN200680015134	20060227
EP1853633 A1	20071114	EP20060736908	20060227
EP1853633 B1	20160914	EP20060736908	20060227
ES2605414 T3	20170314	ES20060736908T	20060227
IN06798DN2007 A	20070921	IN2007DN06798	20070903
IN261162 B	20140613	IN2007DN06798	20070903
JP2008536959 T2	20080911	JP20070558279T	20060227
JP5739081 B2	20150624	JP20070558279T	20060227
KR101321301 B1	20131030	KR20077022442	20060227
KR20070110404 A	20071116	KR20077022442	20060227
MX2007010660 A1	20071107	MX20070010660	20060227

 RU2007136160 A	20090410	RU20070136160	20060227
 RU2415160 C2	20110327	RU20070136160	20060227
 US2006199742 AA	20060907	US20060363107	20060227
 WO06094211 A1	20060908	WO2006US07663	20060227

Priority:

US20050657963 20050302 US20050657963P 20050302 EP20060736908 20060227
US20060363107 20060227 WO2006US07663 20060227

Probable Assignee: HERCULES INC

Assignee(s): (std): ARISZ PETRUS WILHELMUS F ; LUSVARDI KATE M ; HERCULES INC

Assignee(s): ISP INVESTMENTS INC ; CREDIT SUISSE CAYMAN ISLANDS BRANCH WAS KNOWN CREDIT SUISSE FIRST BOSTON COLLATERAL AGENT AS ; BANK OF AMERICA NA AS ADMINISTRATIVE AGENT ; CREDIT SUISSE CAYMAN ISLANDS BRANCH WAS KNOWN AS C ; CREDIT SUISSE CAYMAN ISLANDS BRANCH WAS KNOWN AS CREDIT SUISSE FIRST BOSTON AS COLLATERAL AGENT.. ; AQUALON CO ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH WAS KNOWN C AS ; GERKULES INKORPORJEITD ; BANK OF NOVA SCOTIA ADMINISTRATIVE AGENT AS ; ARISZ PETRUS WILHELMUS FRANCISCUS ; ASHLAND INC ; ASHLAND LICENSING AND INTELLECTUAL PROPERTY LLC ; BANK OF AMERICA NA

Inventor(s): (std): LUSVARDI KATE M ; ARISZ PETRUS WILHELMUS F ; ARISZ PETRUS WILHELMUS FRANCIS ; LUSVARDI KEJT M ; ARISZ PETRUS WILHELMUS FRANCISCUS ; ARIS PETRUS VILKHELMUS FRANSISKUS

Inventor(s): ARISZ PETRUS WILHELMUS ; ARIS PETRUS-VILKHELMUS-FRANSISKUS ; KATE M LUSVARDI ; LUSVARDI KATE ; PETRUS WILHELMUS FRANCISCUS ARISZ ; PETRUS WILHEIMUS FRANCISCUS ARISZ

Agent(s): MOFFAT AND CO; HOFFMANN EITLE; FUSTER GUSTAVO NICOLAS; ONO SHINJIRO; CHIBA AKIO; NOYA HIROAKI; TOMITA HIROYUKI; KOBAYASHI YASUSHI; HERCULES INC HERCULES PLAZA

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

18) Family number: 30056416 (US2001008875A)

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Title: Viscosified aqueous chitosan-containing well drilling and servicing fluids

Abstract: The invention provides aqueous viscous or gelled alkaline fluids particularly useful in oil and gas well operations, and a method of drilling a well therewith. The fluids contain chitosan, an amine reactive acid, and an aldehyde therein, whereby the amine reactive acid and the aldehyde react with the primary amino group on the chitosan to increase the viscosity and stability of the fluid. The fluids are also useful wherein other chitosan-containing fluids are utilized. The preferred amine reactive acid is glyoxylic acid, and the preferred aldehyde is lactose.

Classifications:

International (IPC 8-9): C07H3/10 C07H5/04 C08B37/08 C08L5/08 C09K8/08 C09K8/10 C09K8/20 C09K8/514 C09K8/62 (Advanced/Invention); C07H3/00 C08B37/00 C08L5/00 C09K8/02 C09K8/50 C09K8/60 (Core/Invention)

International (IPC 1-7): C07H5/04 C08B37/08 C09K3/00 C09K7/00 C09K7/02 E21B

CPC: C07H3/10 C09K8/10 C09K8/514 C09K8/62 Y10S507/925 C08B37/003 C08L5/08 C09K8/08 C09K8/206

European: C07H3/10 C08B37/00M3B2 C08L5/08 C09K8/08 C09K8/10 C09K8/20C C09K8/514 C09K8/62

US: 166/282 507/100 507/100P 507/110 507/110P 507/141 507/145 507/209 507/211 507/925 53/65.53 536/20 536/55.3 536/553

Family:

Publication number	Publication date	Application number	Application date
 AR031651 AA	20030924	AR2001P105723	20011210
 AU2001251006 AA	20021008	AU20010251006	20010327
 AU2001251007 AA	20011015	AU20010251007	20010327
 AU200151007 A1	20011015	AU20010051007	20010327
 AU200151007 A5	20011015	AU20010051007	20010327
 AU2002241560 AA	20020828	AU20020241560	20011102
 AU2002320121 AA	20030121	AU20020320121	20020621
 AU2003239112 AA	20030909	AU20030239112	20030103
 CA2512195 AA	20050629	CA20032512195	20030103
 US2001008875 AA	20010719	US20010782634	20010213
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 US2001053749 AA	20011220	US20010898856	20010703
 US2002098987 AA	20020725	US20020035262	20020103
 US2003153467 AA	20030814	US20030348524	20030121
 US6258755 BA	20010710	US19980222293	19981228
 US6277792 BA	20010821	US20000541555	20000403
 US6291404 BB	20010918	US20010782634	20010213
 US6358889 BB	20020319	US20010782633	20010213
 US6562762 BB	20030513	US20010898856	20010703
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 US6780822 BB	20040824	US20030348524	20030121
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 WO03071085 A2	20030828	WO2003US00100	20030103
 WO03071085 A3	20031016	WO2003US00100	20030103

Priority:

US19980222293 19981228 US20000541555 20000403 US20010782633 20010213
US20010782634 20010213 WO2001US09670 20010327 WO2001US09671 20010327

US20010898856 20010703 WO2001US45774 20011102 US20020035262 20020103
WO2002US19595 20020621 WO2003US00100 20030103 US20030348524 20030121

Probable Assignee: VENTURE CHEMICALS INC

Assignee(s): (std): COWAN JACK C ; KILCHRIST MICHAEL J ; SMITH DIANE M ; VENTURE CHEMICALS INC ; VENTURE INNOVATIONS INC ; WAGGENSPACK JOHN H

Assignee(s): VENTURE INNOVATIONS INC ; PITRE KIMELY P ; RODRIGUE TAMMY L ; HOUSE ROY F

Inventor(s): (std): HOUSE ROY F ; KILCHRIST MICHAEL J ; PITRE KIMELY P ; RODRIGUE TAMMY L ; COWAN JACK C ; SMITH DIANE M ; WAGGENSPACK JOHN H

Inventor(s): DIANE M SMITH ; ROY F HOUSE

Agent(s): KIRBY EADES GALE BAKER

Designated states: AM AT AU AZ BE BG BR BY BZ CA CH CN CO CR CY CZ DE DK EC EE ES FI FR GB GR HU ID IE IL IN IS IT KG KZ LU MC MD MX NL NO NZ PH PT RU SE SI SK TJ TM TR TT US

19) Family number: 55979685 (US2014073538A)

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Title: FLUID LOSS CONTROL COMPOSITION AND METHOD OF USING THE SAME

Abstract: Fluid loss materials including carboxymethylcellulose and zirconium-based crosslinkers may be employed as fluid loss materials in methods of treating subterranean formations. One method includes providing a treatment fluid including carboxymethylcellulose (CMC) and a crosslinker including zirconium, wherein the carboxymethylcellulose has a degree of substitution in a range of from about 0.5 to about 2.5, wherein the crosslinker including zirconium includes one selected from the group consisting of ammonium zirconium fluoride, zirconium 2-ethylhexanoate, zirconium acetate, zirconium neodecanoate, zirconium acetylacetonate, tetrakis(triethanolamine) zirconate, zirconium carbonate, ammonium zirconium carbonate, zirconyl ammonium carbonate, zirconium complex of hydroxyethyl glycine, zirconium malonate, zirconium propionate, zirconium lactate, zirconium acetate lactate, and zirconium tartrate, and placing the treatment fluid in a subterranean formation, wherein the treatment fluid controls fluid loss in a permeable portion of the subterranean formation penetrated by a wellbore.

Classifications:

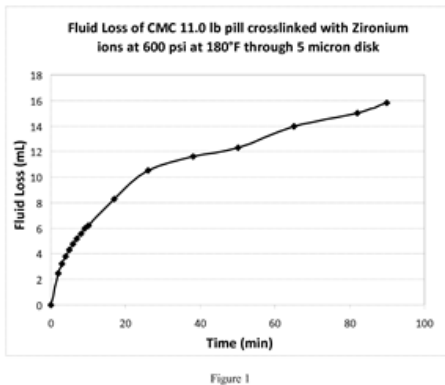
International (IPC 8-9): C09K8/00 C09K8/035

C09K8/512 (Advanced/Invention)

CPC: C09K8/035 C09K8/512

US: 507/215

PatBase - US2014073538_AA



Family:

Publication number	Publication date	Application number	Application date
BR112015001850 A2	20170704	BR20151101850	20130827
US2014073538 AA	20140313	US20120611187	20120912
WO14042863 A1	20140320	WO2013US56727	20130827

Priority:

US20120611187 20120912 WO2013US56727 20130827

Probable Assignee: HALLIBURTON CO

Assignee(s): (std): HALLIBURTON CO ; HALLIBURTON ENERGY SERV INC ; HALLIBURTON ENERGY SERVICES INC ; LIANG FENG ; SAINI RAJESH KUMAR

Inventor(s): (std): FENG LIANG ; RAJESH KUMAR SAINI ; SAINI RAJESH KUMAR ; LIANG FENG

Agent(s): JORDAN CAREY C ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

20) Family number: 5170341 (EP0079997A1)

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Title: Aqueous treatment fluid and method for its use in the drilling of wells.

Abstract: A composition designed for dissolution or dispersion in water to give an aqueous treatment fluid which is compatible with cement slurries and with drilling muds and a method of using same to displace a drilling mud from a borehole which penetrates a subterranean formation. The composition comprises three components, a water soluble viscosifier which increases the viscosity of water under mixing and handling conditions but which becomes substantially insoluble in water when exposed to temperatures encountered downhole in a wellbore; a second component, a thickener, which is soluble or dispersible in and which increases the viscosity of water at temperatures experienced under downhole conditions; and a third component, a dispersant, which enhances the dispersibility of the first component in water and thereby permits it to go smoothly into solution. The resultant aqueous treatment fluid, at a temperature between 85 DEG and 160 DEG F, has a kinematic viscosity of greater than 0.1 and less than 7.5 cP

Classifications:

International (IPC 8-9): C09K8/10 E21B33/16 (Advanced/Invention)

International (IPC 1-7): C07K7/02 C09K7/02 E21B21/00 E21B33/16

CPC: C09K8/10 E21B33/16
European: C09K8/10 E21B33/16

Family:

Publication number	Publication date	Application number	Application date
EP0079997 A1	19830601	EP19810401853	19811123
EP0079997 B1	19860122	EP19810401853	19811123
OA6974 A	19830731	OA19810057575	19811229

Priority:

EP19810401853 19811123

Probable Assignee: DOW CHEMICAL CO
Assignee(s): (std): DOW CHEMICAL CO
Assignee(s): THE DOW CHEMICAL COMPANY
Inventor(s): (std): BANNISTER CHARLES EDWARD ; BANNISTER EDWARD
Inventor(s): EDWARD BANNISTER
Designated states: FR GB IT NL

21) Family number: 1307030 (US3971440A)

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Title: Method for treating subterranean formations with cellulose ether-polyacrylamide aqueous gels

Abstract: Improvements in secondary recovery operations for the recovery of oil, and improvements in well drilling operations, are accomplished through the use of aqueous gels exhibiting high gel strength prepared from water and a mixture of (a) at least one cellulose ether, e.g., carboxymethyl cellulose, and (b) at least one polyacrylamide.

Classifications:

International (IPC 8-9): C09K8/24 C09K8/512 C09K8/588 C09K8/68 E21B43/26 (Advanced/Invention);
C09K8/02 C09K8/50 C09K8/58 C09K8/60 E21B43/25 (Core/Invention)

International (IPC 1-7): C08F8/42 C09K7/00 C09K7/02 E21B33/138 E21B43/22 E21B43/26

CPC: C09K8/24 C09K8/512 C09K8/588 C09K8/685 E21B43/26 Y10S507/903 Y10S507/935

European: C09K8/24 C09K8/512 C09K8/588 C09K8/68B E21B43/26

US: 166/270 166/294 166/308.5 175/65 252/8.5C 507/113 507/120 507/131 507/215 507/225 507/903 507/935

Family:

Publication number	Publication date	Application number	Application date
US3971440 A	19760727	US19750611751	19750910
US4043921 A	19770823	US19760656772	19760209

Priority:

US19750611751 19750910 US19760656772 19760209

Probable Assignee: PHILLIPS PETROLEUM CO
Assignee(s): (std): PHILLIPS PETROLEUM CO
Assignee(s): PHILLIPS PETROLEUM COMPANY ; DRILLING SPECIALTIES CO ; DRILLING SPECIALTIES CO A CORP OF DE
Inventor(s): (std): CLAMPITT RICHARD L ; HESSERT JAMES E

22) Family number: 5228565 (US4646834A)

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Title: AQUEOUS TREATMENT FLUID AND METHOD OF USE

Abstract: A composition designed for dissolution or dispersion in water to give an aqueous treatment fluid having a yield point of zero, at a temperature between about 85 DEG and about 160 DEG F., which is compatible with cement slurries and with drilling muds and a method of using same to displace a drilling mud from a borehole which penetrates a subterranean formation, particularly immediately preceding the injection of a fluid such as a cement slurry, and which also exhibits good fluid loss control and may be adapted for use with either water-based or oil-based drilling muds. The composition comprises three components, a water soluble viscosifier which increases the viscosity of water under mixing and handling conditions but which becomes substantially insoluble in water when exposed to temperatures encountered downhole in a wellbore; a second component, a thickener, which is soluble or dispersible in and which increases the viscosity of water at temperatures experienced under downhole conditions; and a third component, a dispersant, which enhances the dispersibility of the first component in water and thereby permits it to go smoothly into solution. The composition optionally comprises a nonionic surfactant which may be added to improve the compatibility with an oil-based drilling mud of an aqueous treatment fluid prepared from the composition. The composition also optionally comprises a weighting agent to impart increased density to a treatment fluid prepared therefrom. When combined with water, the resultant aqueous treatment fluid, at a temperature between about 85 DEG and about 160 DEG F., has a kinematic viscosity of greater than about 0.1 and less than about 7.5 centipoise-gallons/pound.

Classifications:

International (IPC 8-9): C09K8/035 C09K8/42 E21B33/16 (Advanced/Invention);
C09K8/02 C09K8/42 E21B33/13 (Core/Invention)

International (IPC 1-7): E21B33/13 E21B43/00

CPC: Y10S507/925 Y10S507/928 C09K8/40 C09K8/035 C09K8/424 E21B33/16

European: C09K8/035 C09K8/40 C09K8/42B E21B33/13B5 E21B33/16

US: 166/291 252/8.55 507/215 507/216 507/259 507/261 507/262 507/925 507/928

Family:

Publication number	Publication date	Application number	Application date
US4646834 A	19870303	US19800189541	19800922

Priority:

US19800189541 19800922

Probable Assignee: DOWELL SCHLUMBERGER INC
Assignee(s): (std): DOWELL SCHLUMBERGER INC ; SCHLUMBERGER DOWELL INC

Inventor(s): (std): BANNISTER CHARLES E

23) Family number: 31421514 (GB2146320A)

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Title: HIGH TEMPERATURE WELL CEMENT COMPOSITION

Abstract: An oil-well cement composition having improved set retardation characteristics comprises a hydraulic cement, water, and a partially water-soluble hydroxyethylcellulose having an M.S. of 0.25 to 1.12, and an intrinsic viscosity in 5% sodium hydroxide at 25 DEG C of from about 6.0 to about 9.0. The composition is useful in high-temperature wells. (M.S. is the average number of moles of ethylene oxide per anhydroglucose unit of the cellulose molecule).

Classifications:

International (IPC 8-9): C04B24/38 C09K8/42 C09K8/46

E21B33/138 (Advanced/Invention);

C04B24/00 C09K8/42 (Core/Invention)

International (IPC 1-7): C04B24/10 C04B24/24 C04B24/38

E21B33/138

CPC: C04B24/383 C09K8/42 C09K8/46

European: C04B24/38B C09K8/42 C09K8/46

PatBase - CH244640_R1

SUBSTITUTE

REMPLACEMENT

SECTION is not Present

Cette Section est Absente

Family:

Publication number	Publication date	Application number	Application date
CA1244640 A1	19881115	CA19840462625	19840907
GB2146320 A1	19850417	GB19840022719	19840907
GB2146320 B2	19870128	GB19840022719	19840907
GB8422719 A0	19841010	GB19840022719	19840907

Priority:

US19830530338 19830908 CA19840462625 19840907

Probable Assignee: AQUALON CO

Assignee(s): (std): AQUALON CO ; HERCULES INC

Assignee(s): SU PAUL M ; AQUALON CO A PARTNERSHIP

Inventor(s): (std): SU PAUL M

Inventor(s): PAUL M SU

Agent(s): FETHERSTONHAUGH AND CO

24) Family number: 13062409 (WO9947624A1)

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Title: COMPOSITIONS AND PROCESSES FOR OIL FIELD APPLICATIONS

Abstract: A composition and a process for treating a subterranean formation are disclosed. The process comprises injecting into the subterranean formation a composition which comprises a polymer, a crosslinking agent, a liquid, optionally a clay, and further optionally a weighting agent wherein the polymer forms a gel in the formation, in the presence of the crosslinking agent.

Classifications:

International (IPC 8-9): C09K8/20 C09K8/24 C09K8/512 C09K8/514

C09K8/575 (Advanced/Invention);

C09K8/02 C09K8/50 C09K8/56 (Core/Invention)

International (IPC 1-7): C09K C09K3/00 C09K7/02 E21B33/138

E21B43/26

CPC: C09K8/206 C09K8/24 C09K8/512 C09K8/514 C09K8/5756

C09K8/5758

European: C09K8/20C C09K8/24 C09K8/512 C09K8/514

C09K8/575B6 C09K8/575B8

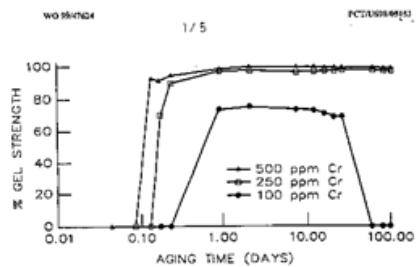


FIG. 1

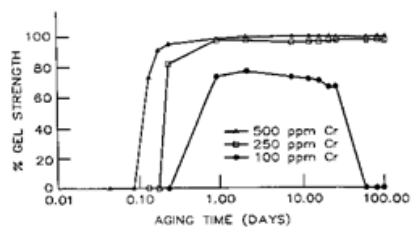


FIG. 2

SUBSTITUTE SHEET (RULE 26)

Family:

Publication number	Publication date	Application number	Application date
EP1064339 A1	20010103	EP19980911699	19980317
EP1064339 A4	20070926	EP19980911699	19980317
NO20004553 A	20001117	NO20000004553	20000912
NO20004553 A0	20000912	NO20000004553	20000912
WO9947624 A1	19990923	WO1998US05153	19980317

Priority:

WO1998US05153 19980317

Probable Assignee: CONOCO PHILLIPS CO**Assignee(s):** (std): CONOCOPHILLIPS CO ; PHILLIPS PETROLEUM CO**Assignee(s):** PHILLIPS PETROLEUM COMPANY ; CONOCOPHILLIPS COMPANY ; CONOCO PHILLIPS CO**Inventor(s):** (std): BRUNNING DONALD D ; FOX KELLY BRUCE ; MORADI ARAGHI AHMAD ; ZORNES DAVID RUSSELL**Designated states:** AT BE CH DE DK ES FI FR GB GR IE IT LU MC MX NL NO PT SE