

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3563245

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
CLEARWATER INTERNATIONAL, L.L.C.		08/04/2015
RECEIVING PARTY DATA		
Name:	LUBRIZOL OILFIELD SOLUTIONS, INC.	
Street Address:	29400 LAKELAND BLVD.	
City:	WICKLIFFE	
State/Country:	OHIO	
Postal Code:	44092-2298	
PROPERTY NUMBERS Total: 125		
Property Type	Number	
Patent Number:	8563481	
Patent Number:	5766309	
Patent Number:	5733841	
Patent Number:	5846915	
Patent Number:	6167638	
Patent Number:	6158147	
Patent Number:	5807812	
Patent Number:	5854180	
Patent Number:	6004908	
Patent Number:	6054417	
Patent Number:	6368384	
Patent Number:	6506233	
Patent Number:	6453576	
Patent Number:	6454005	
Patent Number:	6194361	
Patent Number:	6489272	
Patent Number:	6893582	
Patent Number:	6502637	
Patent Number:	7576038	
Patent Number:	6921742	

PATENT

Property Type	Number
Patent Number:	6666906
Patent Number:	6896718
Patent Number:	7060198
Patent Number:	7452480
Patent Number:	7713435
Patent Number:	6659123
Patent Number:	6495063
Patent Number:	6569348
Patent Number:	6806234
Patent Number:	7348297
Patent Number:	7028771
Patent Number:	7211665
Patent Number:	8562820
Patent Number:	7205262
Patent Number:	7183239
Patent Number:	7575057
Patent Number:	7517447
Patent Number:	8530394
Application Number:	10745290
Patent Number:	7140433
Patent Number:	8012913
Patent Number:	7971659
Patent Number:	8714283
Patent Number:	7268100
Patent Number:	7566686
Patent Number:	8097567
Patent Number:	8507413
Patent Number:	7392847
Patent Number:	7956017
Patent Number:	8084401
Patent Number:	8507412
Patent Number:	7712535
Patent Number:	8728989
Application Number:	14269528
Patent Number:	8034750
Patent Number:	7565933
Patent Number:	8172952
Patent Number:	7992653

Property Type	Number
Patent Number:	8158562
Patent Number:	7942201
Application Number:	13079081
Patent Number:	8273693
Patent Number:	8772203
Application Number:	13607985
Patent Number:	7989404
Patent Number:	7886824
Patent Number:	8220546
Patent Number:	7956217
Patent Number:	8362298
Patent Number:	8258339
Patent Number:	8141661
Patent Number:	7932214
Patent Number:	8287640
Patent Number:	8475585
Patent Number:	8093431
Patent Number:	7915203
Application Number:	12479486
Application Number:	12464351
Application Number:	12750335
Patent Number:	8466094
Application Number:	12784479
Application Number:	12758466
Application Number:	14328878
Application Number:	12832222
Application Number:	14308160
Patent Number:	8524639
Application Number:	13965411
Application Number:	12885102
Application Number:	14328868
Application Number:	12885128
Application Number:	12892584
Application Number:	13247985
Application Number:	13109712
Application Number:	13117304
Application Number:	13094806
Application Number:	13052947

Property Type	Number
Application Number:	13053975
Application Number:	14328853
Application Number:	13102053
Application Number:	13249819
Application Number:	13348267
Application Number:	13348279
Application Number:	14068621
Application Number:	14102658
Application Number:	61942781
Application Number:	14628223
Application Number:	61842866
Application Number:	14322688
Application Number:	61888325
Application Number:	14506137
Application Number:	61875145
Application Number:	14476937
Application Number:	61928228
Application Number:	14595276
Application Number:	62036722
Application Number:	14301247
Application Number:	14257830
Application Number:	14546288
Application Number:	14546246
Application Number:	14531027
Application Number:	14257782
Application Number:	14211025
Application Number:	14211066
Application Number:	14560172
Application Number:	14560185

CORRESPONDENCE DATA

Fax Number: (440)347-5219

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 440-347-5802

Email: dawn.brown@lubrizol.com

Correspondent Name: DAWN A. BROWN/LUBRIZOL

Address Line 1: 29400 LAKELAND BLVD.

Address Line 4: WICKLIFFE, OHIO 44092-2298

ATTORNEY DOCKET NUMBER:	CLWT-LZOS ASSIGN
NAME OF SUBMITTER:	DAWN A. BROWN
SIGNATURE:	/Dawn A. Brown/
DATE SIGNED:	10/09/2015

Total Attachments: 36

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PATENT ASSIGNMENT

THIS ASSIGNMENT is made as of the 1st day of January 2015 by and between Clearwater International, L.L.C., a limited liability company of Delaware, with a business address at 2000 St. James Place, Houston, Texas 77056 ("ASSIGNOR"), and Lubrizol Oilfield Solutions, Inc. a Delaware corporation with a business address at 29400 Lakeland Blvd., Wickliffe, Ohio 44092 ("ASSIGNEE").

WHEREAS, ASSIGNOR is the owner of patents, patent applications, and invention records, as set forth on the attached Schedule I ("Patents"); and

WHEREAS, ASSIGNEE is desirous of acquiring the entire right, title and interest of ASSIGNOR in and to the Patents; and

WHEREAS, ASSIGNOR has agreed to the transfer of its entire right, title and interest in and to the Patents to ASSIGNEE; and

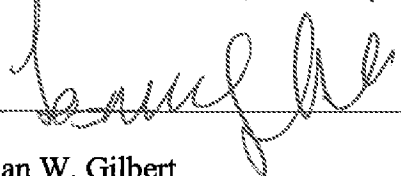
NOW, THEREFORE for good and valuable consideration the receipt and sufficiency of which are hereby acknowledged by the parties, ASSIGNOR does hereby assign, sell, transfer and convey to ASSIGNEE, its successors and/or assigns its entire right, title and undivided interest in and to the Patents, in the United States of America and its territorial possession and in all foreign countries, and the legal equivalents of the Patents such as registrations, utility models, design patents, inventor's certificates and the like, and to all Patents, continuations, divisions, registrations, renewals and/or any reissue or reexamination resulting therefrom, including the right to claim priority.

ASSIGNOR further does assign, sell, transfer, and convey to ASSIGNEE its right to enforce the Patents against any third party for any and all claims for damages by reason of past infringement of the Patents with the right to sue for and collect the same for its own use and enjoyment and for the use and enjoyment of its successors and/or assigns.

ASSIGNOR does hereby covenant and agree that it will at any time upon request and at the expense of ASSIGNOR, execute and deliver any and all papers and do all lawful acts that may be necessary or desirable to confirm and/or perfect title to the Patents in and to ASSIGNOR.

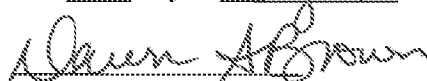
IN WITNESS WHEREOF, the parties hereto have caused this ASSIGNMENT to be executed the date first above written.

Clearwater International, L.L.C. (ASSIGNOR)

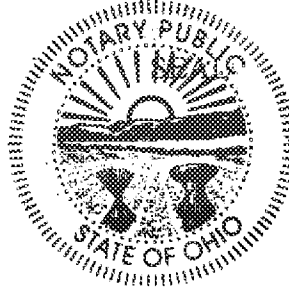
By: 

Teresan W. Gilbert
Chief Intellectual Property Counsel

Subscribed and sworn to before me
this 4th day of August 2015

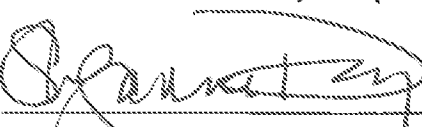

Notary Public

Dawn A. Brown
Notary Public
State of Ohio
My Commission Expires
November 27, 2017



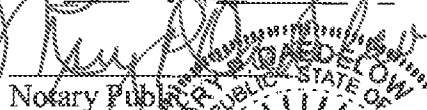
ACCEPTED:

Lubrizol Oilfield Solutions, Inc. (ASSIGNEE)

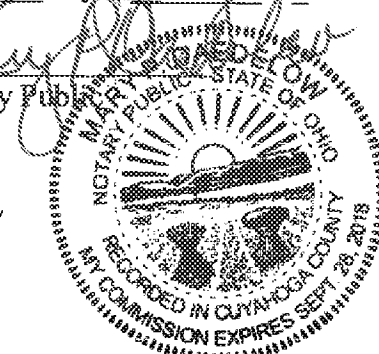
By: 

Suzanne F. Day
President

Subscribed and sworn to before me
this 3rd day of July 2015


Notary Public

SEAL



SCHEDULE I					
COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
Australia	2006200176	Jan 17, 2006	Corrosion Inhibitor Systems for Low, Moderate and High Temperature Fluids and Methods for Making and Using Same	2006200176	Oct 14, 2010
Canada	2533008	Jan 16, 2006	Corrosion Inhibitor Systems for Low, Moderate and High Temperature Fluids and Methods for Making and Using Same	2533008	Oct 20, 2009
Norway	20060332	Jan 23, 2006	Corrosion Inhibitor Systems for Low, Moderate and High Temperature Fluids and Methods for Making and Using Same		
United Kingdom	06004865	Jan 11, 2006	Corrosion Inhibitor Systems for Low, Moderate and High Temperature Fluids and Methods for Making and Using Same	2423516	Sep 1, 2010
United States of America	11066600	Feb 25, 2005	Corrosion Inhibitor Systems for Low, Moderate and High Temperature Fluids and Methods for Making and Using Same	8563481	Oct 22, 2013
European Patent Office	959035189	Nov 14, 1994	Method of Treating Shale and Clay in Hydrocarbon Formation Drilling	0680504	Mar 10, 1999
United Kingdom	959035189	Nov 14, 1994	Method of Treating Shale and Clay in Hydrocarbon Formation Drilling	0680504	Mar 10, 1999
Canada	2151152	Nov 14, 1994	Method of Treating Shale and Clay in Hydrocarbon Formation Drilling	2151152	Aug 10, 1999
European Patent Office	959126772	Mar 1, 1995	Hydrocarbon Gels Useful in Formation Fracturing	0697059	Oct 13, 1999
Germany	959126772	Mar 1, 1995	Hydrocarbon Gels Useful in Formation Fracturing	69512726.8	Oct 13, 1999
United Kingdom	959126772	Mar 1, 1995	Hydrocarbon Gels Useful in Formation Fracturing	0697059	Oct 13, 1999
Canada	2151125	Mar 1, 1995	Hydrocarbon Gels Useful in Formation Fracturing	2151125	Jun 25, 1996

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
United States of America	08209266	Mar 14, 1994	Hydrocarbon Gels Useful in Formation Fracturing	5417287	May 23, 1995
United States of America	08006791	Jan 21, 1993	Iterated Foam Process and Composition for Well Treatment	5385206	Jan 31, 1995
Canada	2226748	Aug 12, 1996	Eutectic Drying Composition and Method	2226748	Aug 5, 2003
United States of America	08895546	Jul 16, 1997	Eutectic Drying Composition and Method	5766309	Jun 16, 1998
United States of America	08768793	Dec 18, 1996	Eutectic Drying Composition and Method	5733841	Mar 31, 1998
European Patent Office	969367705	Oct 18, 1996	Delayed Breaking of Gelled Hydrocarbon Fracturing Fluid	0800562	Apr 16, 2003
Germany	969367705	Oct 18, 1996	Delayed Breaking of Gelled Hydrocarbon Fracturing Fluid	69627469.8	Apr 16, 2003
United Kingdom	969367705	Oct 18, 1996	Delayed Breaking of Gelled Hydrocarbon Fracturing Fluid	0800562	Apr 16, 2003
Canada	2199169	Oct 18, 1996	Delayed Breaking of Gelled Hydrocarbon Fracturing Fluid	2199169	Mar 13, 2001
United States of America	08548646	Oct 26, 1995	Delayed Breaking of Gelled Hydrocarbon Fracturing Fluid	5846915	Dec 8, 1998
United States of America	08580171	Dec 28, 1995	Hydrocarbon Gels Useful in Formation Fracturing	5571315	Nov 5, 1996
Canada	2215072	Sep 24, 1997	Hydrocarbon Gels Useful in Formation Fracturing	2215072	Nov 8, 2005
United States of America	08592592	Jan 26, 1996	Hydrocarbon Gels Useful in Formation Fracturing	5614010	Mar 25, 1997
European Patent Office	979472859	Oct 29, 1997	Preparation of Hydrocarbon Gels from Ferric Sources, Polycarboxylic Acid Compounds, and Optional Amines	0871685	Jun 30, 2004
United Kingdom	979472859	Oct 29, 1997	Preparation of Hydrocarbon Gels from Ferric Sources, Polycarboxylic Acid Compounds, and Optional Amines	0871685	Jun 30, 2004

SCHEDULE I					
COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
Canada	2235388	Oct 29, 1997	Preparation of Hydrocarbon Gels from Ferric Sources, Polycarboxylic Acid Compounds, and Optional Amines	2235388	Aug 19, 2003
United States of America	08743007	Nov 1, 1996	Preparation of Hydrocarbon Gels from Ferric Sources, Polycarboxylic Acid Compounds, and Optional Amines	5647900	Jul 15, 1997
Canada	2308714	May 16, 2000	Use of Membrane-Dried Air for Drying of Grain and Other Particulates	2308714	Nov 22, 2005
United States of America	09313082	May 17, 1999	Drying of Grain and Other Particulate Materials	6167638	Jan 2, 2001
United States of America	09579848	May 25, 2000	Method and Apparatus for Drying of Grain and Other Particulates Using a Mambrane	6158147	Dec 12, 2000
European Patent Office	989133632	Apr 1, 1998	Controlled Gel Breaker	0941395	Oct 21, 2009
Germany	989133632	Apr 1, 1998	Controlled Gel Breaker	69841250.8	Oct 21, 2009
France	989133632	Apr 1, 1998	Controlled Gel Breaker	0941395	Oct 21, 2009
Netherlands	989133632	Apr 1, 1998	Controlled Gel Breaker	0941395	Oct 21, 2009
United Kingdom	989133632	Apr 1, 1998	Controlled Gel Breaker	0941395	Oct 21, 2009
Canada	2251366	Apr 1, 1998	Controlled Gel Breaker	2251366	Feb 1, 2000
United States of America	08833727	Apr 9, 1997	Controlled Gel Breaker	5807812	Sep 15, 1998
United States of America	09047208	Mar 24, 1998	Environmentally Improved Acid Corrosion Inhibitor	5854180	Dec 29, 1998
United States of America	09200939	Nov 25, 1998	Rapid Gel Formation in Hydrocarbon Recovery	6004908	Dec 21, 1999
United States of America	09411317	Oct 4, 1999	Rapid Gel Formation in Hydrocarbon Recovery	6054417	Apr 25, 2000

SCHEDULE I					
COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
Canada	2352766	Jul 10, 2001	Desiccant Tablets for Gas Drying	2352766	Sep 7, 2004
United States of America	09803072	Mar 9, 2001	Desiccant Tablets for Gas Drying	6368384	Apr 9, 2002
United States of America	10037825	Nov 9, 2001	Desiccant Tablets for Gas Drying	6506233	Jan 14, 2003
United States of America	08247149	May 20, 1994	Hydrogen Sulfide Converter	5486605	Jan 23, 1996
United States of America	08441354	May 15, 1995	Hydrogen Sulfide Converter	5488103	Jan 30, 1996
United States of America	08239370	May 6, 1994	Hydrogen Sulfide Converter	5498707	Mar 12, 1996
United States of America	09795182	Mar 1, 2001	Control of Solids Deposition from Used Desiccant Solution	6453576	Sep 24, 2002
Canada	2355025	Aug 13, 2001	Treating Shale and Clay in Hydrocarbon Producing Formations with Combinations of Guar and Potassium Formate	2355025	Jan 11, 2005
United States of America	09803501	Mar 9, 2001	Treating Shale and Clay in Hydrocarbon Producing Formations with Combinations of Guar and Potassium Formate	6454005	Sep 24, 2002
United States of America	09079023	May 14, 1998	Lubricant Composition	6194361	Feb 27, 2001
United States of America	09773864	Feb 1, 2001	Lubricant, Solvent and Emulsifier Composition and Method of Manufacture	6489272	Dec 3, 2002
Canada	2455207	Mar 18, 2004	Deicing	2455207	Jan 5, 2010
United Kingdom	04020814	Jul 30, 2002	Deicing	2392916	Feb 16, 2005
United States of America	09788115	Feb 16, 2001	Method of Heating a Fluid Using A Line Heater Comprising an Alkali Metal Formate	6893582	May 17, 2005

SCHEDULE I					
COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
Canada	2342074	Mar 27, 2001	Treating Shale and Clay in Hydrocarbon Producing Formations	2342074	Dec 6, 2005
European Patent Office	011170495	Jul 12, 2001	Treating Shale and Clay in Hydrocarbon Producing Formations	1243749	Jun 29, 2005
United Kingdom	011170495	Jul 12, 2001	Treating Shale and Clay in Hydrocarbon Producing Formations	1243749	Jun 29, 2005
United States of America	09812422	Mar 20, 2001	Treating Shale and Clay in Hydrocarbon Producing Formations	6502637	Jan 7, 2003
United States of America	11186184	Jul 21, 2005	Well Drilling Fluids	7576038	Aug 18, 2009
United States of America	10223259	Aug 19, 2002	Well Drilling Fluids	6921742	Jul 26, 2005
Canada	2428948	May 8, 2003	Gas Dehydration Using Membrane and Potassium Formate Solution	2428948	Jan 2, 2007
United States of America	09992161	Nov 6, 2001	Gas Dehydration Using Membrane and Potassium Formate Solution	6666906	Dec 23, 2003
United States of America	09938935	Aug 24, 2001	Gas Dehydration with Cavitation Regeneration of Potassium Formate Dehydration Solution	6896718	May 24, 2005
Norway	20034771	Oct 24, 2003	Treatment of Hydrocarbons Containing Sulfides		
United Kingdom	03249356	Oct 27, 2003	Treatment of Hydrocarbons Containing Sulfides	2391015	Dec 22, 2004
Canada	2452761	Dec. 30, 2003	Heat Exchange Fluids	2452761	Jul 17, 2007
United Kingdom	03300654	May 7, 2003	Amine Carboxylate Compounds and Their Use in Heat Exchange Fluids	2392165	Mar 1, 2006
United States of America	10141390	May 8, 2002	Heat Exchanger Fluids Comprising Amine Carboxylates	7060198	Jun 13, 2006
United States of America	11251058	Oct 14, 2005	Heat Exchange Fluids	7452480	Nov 18, 2008
United States of America	12273327	Nov 18, 2008	Heat Exchanger Fluids Comprising Amine Carboxylates	7713435	May 11, 2010

SCHEDULE I					
COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
Canada	2394034	Jul 18, 2002	Maintaining Readiness in Fire Hydrants	2394034	Feb 21, 2006
United States of America	09939228	Aug 24, 2001	Maintaining Readiness in Fire Hydrants	6659123	Dec 9, 2003
Canada	2400557	Aug 29, 2002	Treating Coal and Other Piled Materials to Inhibit Freeze Binding	2400557	Jul 11, 2006
United States of America	09943998	Aug 31, 2001	Treating Coal and Other Piled Materials to Inhibit Freeze Binding	6495063	Dec 17, 2002
United States of America	10217045	Aug 12, 2002	Treating Coal and Other Piled Materials to Inhibit Freeze Binding	6569348	May 27, 2003
Canada	2457395	Aug 19, 2002	Topical Defoamer and Demulsifier	2457395	Mar 18, 2008
Norway	20040721	Feb 19, 2004	Topical Defoamer and Demulsifier		
United Kingdom	04021358	Aug 19, 2002	Topical Defoamer and Demulsifier	2393723	Sep 14, 2005
United States of America	10223258	Aug 19, 2002	Topical Defoamer and Demulsifier	6806234	Oct 19, 2004
United States of America	10959666	Oct 5, 2004	Topical Defoamer and Demulsifier	7348297	Mar 25, 2008
Canada	2407459	Oct 10, 2002	Invert Emulsion Drilling Fluid and Process	2407459	Dec 9, 2008
Norway	20032569	Jun 6, 2003	Invert Emulsion Drilling Fluid and Process		
United Kingdom	04020798		Invert Emulsion Drilling Fluid and Process	2395967	Oct 26, 2005
Canada	2458504	May 21, 2003	Hydrocarbon Recovery	2458504	Sep 4, 2007
United Kingdom	04020822		Hydrocarbon Recovery	2395968	Apr 12, 2006
United States of America	10159176	May 30, 2002	Hydrocarbon Recovery	7028771	Apr 18, 2006
Canada	2451520	Dec 23, 2003	Sulfide Scavenger	2451520	Feb 15, 2011

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
United Kingdom	03283686	Nov 12, 2002	Sulfide Scavenger	2397306	Apr 11, 2007
United States of America	10291461	Nov 8, 2002	Sulfide Scavenger	7211665	May 1, 2007
United States of America	11743054	May 1, 2007	Sulfide Scavenger	8562820	Oct 22, 2013
Canada	2452888	Dec 10, 2003	Friction Reducing Composition and Method	2452888	Aug 18, 2009
Canada	2452969	Dec 11, 2003	Gel Plugs and Pigs for Pipeline Use	2452969	Sep 16, 2008
European Patent Office	061189114	Nov 8, 2006	Friction Reducing Composition and Method	1728843	Apr 8, 2009
Germany	061189114	Dec 12, 2002	Friction Reducing Composition and Method	60231927.7	Apr 8, 2009
France	061189114	Dec 12, 2002	Friction Reducing Composition and Method	1728843	Apr 8, 2009
Italy	061189114	Dec 12, 2002	Friction Reducing Composition and Method	1728843	Apr 8, 2009
United Kingdom	061189114	Dec 12, 2002	Friction Reducing Composition and Method	1728843	Apr 8, 2009
European Patent Office	027880954	Feb 26, 2004	Friction Reducing Composition and Method	1454035	Nov 5, 2008
Germany	027880954	Dec 12, 2002	Friction Reducing Composition and Method	60229770.2	Nov 5, 2008
France	027880954	Dec 12, 2002	Friction Reducing Composition and Method	1454035	Nov 5, 2008
Italy	027880954	Dec 12, 2002	Friction Reducing Composition and Method	1454035	Nov 5, 2008
United Kingdom	027880954	Dec 12, 2002	Friction Reducing Composition and Method	1454035	Nov 5, 2008
Australia	2002352375	Dec 12, 2002	Friction Reducing Composition and Method	2002352375	Mar 13, 2008
Canada	2460124	Dec 12, 2002	Friction Reducing Composition and Method	2460124	Sep 15, 2009
Canada	2639770	Sep 11, 2008	Friction Reducing Composition and Method	2639770	Mar 27, 2012

SCHEDULE I					
COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
Norway	20040865	Feb 27, 2004	Friction Reducing Composition and Method		
United Kingdom	03286549	Dec 10, 2003	Friction Reducing Composition and Method	2397595	May 24, 2006
United Kingdom	03286572	Dec 10, 2003	Gel Plugs and Pigs for Pipeline Use	2397596	May 10, 2006
United States of America	10315374	Dec 10, 2002	Friction Reducing Composition and Method	7205262	Apr 17, 2007
United States of America	10316256	Dec 11, 2002	Gel Plugs and Pigs for Pipeline Use	7183239	Feb 27, 2007
United States of America	12033098	Feb 19, 2008	Polymeric Gel System and Use in Hydrocarbon Recovery	7575057	Aug 18, 2009
Canada	2452969	Dec 11, 2003	Gel Plugs and Pigs for Pipeline Use	2452969	Dec 16, 2008
Canada	2452888	Dec 10, 2003	Friction Reducing Composition and Method	2452888	Aug 18, 2009
Norway	20141532	Dec 12, 2002	Aqueous gel and process for producing same		
United States of America	10077626	Feb 15, 2002	Road Bed Stabilization	6689204	Feb 10, 2004
Australia	2005200048	Jan 7, 2005	Sulfur Scavengers and Methods for Making and Using Same	2005200048	Jul 15, 2010
Canada	2491973	Jan 7, 2005	Sulphur Scavenging Amines Being Monomeric Adducts of a Sterically Hindered Amine and an Aldehyde or Donor	2491973	Feb 28, 2012
Norway	20050101	Jan 7, 2005	Sulfur Scavengers and Methods for Making and Using Same	329270	Sep 20, 2010
United Kingdom	05001565	Jan 6, 2005	Sulphur Scavenging Amines Being Monomeric Adducts of a Sterically Hindered Amine and an Aldehyde or Donor	2409859	Apr 1, 2009
United States of America	10754487	Jan 9, 2004	Sterically Hindered N-Methyl Secondary and Tertiary Amine Sulfur Scavengers and	7517447	Apr 14, 2009

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
			Methods for Making and Using Same		
United States of America	12419418	Apr 7, 2009	Sterically Hindered N-Methyl Secondary and Tertiary Amine Sulfur Scavengers and Methods for Making and Using Same	8530394	Sep 10, 2013
Australia	2004242436	Dec 23, 2004	A Novel Foamer Composition and Methods for Making and Using Same	2004242436	Jul 15, 2010
Canada	2491004	Dec 22, 2004	A Novel Foamer Composition and Methods for Making and Using Same	2491004	Feb 2, 2010
Norway	20045604	Dec 22, 2004	A Novel Foamer Composition and Methods for Making and Using Same		
United Kingdom	04278479	Dec 21, 2004	A Novel Foamer Composition and Methods for Making and Using Same	2409475	Feb 21, 2007
United States of America	10745290	Dec 23, 2003	Novel Foamer Composition and Methods for Making and Using Same		
Australia	2004235671	Dec 6, 2004	Diamine Terminated Primary Amine-Aldehyde Sulfur Converting Compositions and Methods for Making and Using Same	2004235671	Jun 16, 2011
Canada	2489739	Dec 10, 2004	Diamine Terminated Primary Amine-Aldehyde Sulfur Converting Compositions and Methods for Making and Using Same	2489739	Jun 19, 2012
Norway	20045349	Dec 7, 2004	Diamine Terminated Primary Amine-Aldehyde Sulfur Converting Compositions and Methods for Making and Using Same		
United Kingdom	04263638	Dec 2, 2004	Diamine Terminated Primary Amine-Aldehyde Sulfur Converting Compositions and Methods for Making and Using Same	2409202	Mar 4, 2009

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
United States of America	10734600	Dec 12, 2003	Diamine Terminated Primary Amine-Aldehyde Sulfur Converting Compositions and Methods for Making and Using Same	7140433	Nov 28, 2006
United States of America	11545387	Oct 10, 2006	Diamine Terminated Primary Amine-Aldehyde Sulfur Converting Compositions and Methods for Making and Using Same	8012913	Sep 6, 2011
Australia	2005201874	May 4, 2005	A Foamer/Sulfur Scavenger Composition and Methods for Making and Using Same	2005201874	Mar 3, 2010
Canada	2506278	May 4, 2005	A Foamer/Sulfur Scavenger Composition and Methods for Making and Using Same	2506278	Aug 3, 2010
Norway	20052191	May 4, 2005	A Foamer/Sulfur Scavenger Composition and Methods for Making and Using Same		
United Kingdom	05090410	May 4, 2005	A Foamer/Sulfur Scavenger Composition and Methods for Making and Using Same	2413811	Dec 19, 2007
United States of America	10839734	May 5, 2004	A Foamer/Sulfur Scavenger Composition and Methods Making and Using Same	7971659	Jul 5, 2011
United States of America	13175936	Jul 4, 2011	Foamer/Sulfur Scavenger Composition and Methods for Making and Using Same	8714283	May 6, 2014
Australia	2005239638	Nov 29, 2005	Shale Inhibition Additive for Oil/Gas down hole fluids and methods for making and using same	2005239638	Feb 24, 2011
Canada	2528014	Nov 25, 2005	Shale Inhibition Additive for Oil/Gas down hole fluids and methods for making and using same	2528014	Jul 20, 2010
Norway	20055613	Nov 28, 2005	Shale Inhibition Additive for Oil/Gas down hole fluids and methods for making and using same		
United Kingdom	05241443	Nov 28, 2005	Shale Inhibition Additive for Oil/Gas down hole fluids and methods for making and using same	2420577	Sep 23, 2009

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
United States of America	10999796	Nov 29, 2004	Shale Inhibition Additive for Oil/Gas down hole fluids and methods for making and using same	7268100	Sep 11, 2007
United States of America	11891317	Aug 9, 2007	Shale Inhibition Additive for Oil/Gas down hole fluids and methods for making and using same	7566686	Jul 28, 2009
Australia	2006230665	Oct 17, 2006	Well Drilling Fluids Having Clay Control Properties	2006230665	Apr 4, 2013
Canada	2564458	Oct 16, 2006	Well Drilling Fluids Having Clay Control Properties	2564458	Jun 26, 2012
Norway	20064915	Oct 26, 2006	Well Drilling Fluids Having Clay Control Properties		
United Kingdom	06198865	Oct 9, 2006	Well Drilling Fluids Having Clay Control Properties	2433951	Dec 22, 2010
United States of America	11328432	Jan 9, 2006	Well Drilling Fluids Having Clay Control Properties	8097567	Jan 17, 2012
United States of America	13351312	Jan 17, 2012	Methods Using Well Drilling Fluids Having Clay Control Properties	8507413	Aug 13, 2013
Australia	2006203050	Jul 17, 2006	Aggregating Reagents. Modified Particulate Metaloxides, and Methods for Making and Using Same	2006203050	Jun 21, 2012
Canada	2552421	Jul 17, 2006	Aggregating Reagents. Modified Particulate Metaloxides, and Methods for Making and Using Same	2552421	Sep 21, 2010
Norway	20063579	Aug 7, 2006	Aggregating Reagents. Modified Particulate Metaloxides, and Methods for Making and Using Same		
United Kingdom	06138499	Jul 13, 2006	Aggregating Reagents. Modified Particulate Metaloxides, and Methods for Making and Using Same	2433067	Sep 21, 2011
United Kingdom	11112406	Jul 13, 2006	Aggregating Reagents. Modified Particulate Metaloxides, and Methods for Making and Using Same	2478677	Nov 2, 2011

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
United States of America	11298547	Dec 9, 2005	Aggregating Reagents, Modified Particulate Metaloxides, and Methods for Making and Using Same	7392847	Jul 1, 2008
United States of America	12151429	May 6, 2008	Aggregating Reagents, Modified Particulate Metal-Oxides and Proppants	7956017	Jun 7, 2011
Australia	2006203047	Jul 17, 2006	Sand Aggregating Reagents, Modified Sands, and Methods for Making and Using Same	2006203047	Oct 18, 2012
Canada	2552422	Jul 17, 2006	Sand Aggregating Reagents, Modified Sands, and Methods for Making and Using Same	2552422	Sep 14, 2010
Norway	20063580	Aug 7, 2006	Sand Aggregating Reagents, Modified Sands, and Methods for Making and Using Same		
United Kingdom	06138507	Jul 13, 2006	Methods for Modifying an Aggregating Propensity of Metal Oxide-Containing Solids for Fracturing a Formation	2433068	Nov 23, 2011
United Kingdom	11072907	May 3, 2011	Sand Aggregating Reagents, Modified Sands, and Methods for Making and Using Same	2479277	Nov 23, 2011
United Kingdom	11111465	Jun 30, 2011	Sand Aggregating Reagents, Modified Sands, and Methods for Making and Using Same	2479289	Nov 23, 2011
United States of America	11298556	Dec 9, 2005	Sand Aggregating Reagents, Modified Sands, and Methods for Making and Using Same	7350579	Apr 1, 2008
United States of America	12075461	Mar 11, 2008	Sand Aggregating Reagents, Modified Sands, and Methods for Making and Using Same	7829510	Nov 9, 2010
Australia	2006203048	Jul 17, 2006	Non-Volatile Phosphorus Hydrocarbon Gelling Agent	2006203048	Feb 3, 2011
Canada	2552657	Jul 18, 2006	Non-Volatile Phosphorus Hydrocarbon Gelling Agent	2552657	Jan 5, 2010
Norway	20064914	Oct 26, 2006	Non-Volatile Phosphorus Hydrocarbon Gelling Agent		

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
United Kingdom	06139372	Jul 14, 2006	Non-Volatile Phosphorus Hydrocarbon Gelling Agent	2434577	Apr 7, 2010
United States of America	11339303	Jan 25, 2006	Non-Volatile Phosphorus Hydrocarbon Gelling Agent	8084401	Dec 27, 2011
United States of America	13337462	Dec 27, 2011	Methods for Using Non-Volatile Phosphorus Hydrocarbon Gelling Agents	8507412	Aug 13, 2013
United States of America	11554834	Oct 31, 2006	Oxidative Systems For Breaking Polymer Viscosified Fluids	7712535	May 11, 2010
Australia	2008202322	May 27, 2008	Oil Based Concentrated Slurries and Methods for Making and Using Same	2008202322	May 1, 2014
Canada	2633879	Jun 5, 2008	Oil Based Concentrated Slurries and Methods for Making and Using Same	2633879	Nov 29, 2011
Norway	20082433	May 27, 2008	Oil Based Concentrated Slurries and Methods for Making and Using Same		
United Kingdom	08094138	May 23, 2008	Oil Based Concentrated Slurries and Methods for Making and Using Same	2452113	Feb 1, 2012
United States of America	11765316	Jun 19, 2007	Oil Based Concentrated Slurries and Methods for Making and Using Same	8728989	May 20, 2014
United States of America	14269528	May 5, 2014	Oil Based Concentrated Slurries and Methods for Making and Using Same		
Australia	2008201907	May 1, 2008	Novel Borozirconate Systems in Completion Systems	2008201907	Jul 15, 2013
Canada	2630488	May 5, 2008	Novel Borozirconate Systems in Completion Systems	2630488	Nov 29, 2011
Norway	20082031	Apr 30, 2008	Novel Borozirconate Systems in Completion Systems		
United Kingdom	08076408	Apr 28, 2008	Novel Borozirconate Systems in Completion Systems	2449337	Sep 7, 2011
United States of America	11748248	May 14, 2007	Novel Borozirconate Systems in Completion Systems	8034750	Oct 11, 2011
Australia	2008201671	Apr 17, 2008	Non-Aqueous Foam Composition For Gas Lift Injection and Methods for Making and Using Same	2008201671	Jul 15, 2013

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
Canada	2629204	Apr 16, 2008	Non-Aqueous Foam Composition For Gas Lift Injection and Methods for Making and Using Same	2629204	Jul 12, 2011
Norway	20081782	Apr 11, 2008	Non-Aqueous Foam Composition For Gas Lift Injection and Methods for Making and Using Same		
United Kingdom	08066938	Apr 14, 2008	Non-Aqueous Foam Composition For Gas Lift Injection and Methods for Making and Using Same	2448584	Aug 10, 2011
United States of America	11736971	Apr 18, 2007	Non-Aqueous Foamer For Gas Lift Injection	7565933	Jul 28, 2009
Australia	2008200568	Feb 7, 2008	Reduction of Hydrogen Sulfide in Water Treatment Systems or other Systems that Collect and Transmit Bi-Phasic Fluids	2008200568	Dec 1, 2011
Canada	2621611	Feb 12, 2008	Reduction of Hydrogen Sulfide in Water Treatment Systems or other Systems that Collect and Transmit Bi-Phasic Fluids	2621611	Jul 9, 2013
Norway	20080810	Feb 15, 2008	Reduction of Hydrogen Sulfide in Water Treatment Systems or other Systems that Collect and Transmit Bi-Phasic Fluids		
United Kingdom	08015703	Jan 29, 2008	Reduction of Hydrogen Sulfide in Water Treatment Systems or other Systems that Collect and Transmit Bi-Phasic Fluids	2446915	Apr 6, 2011
United States of America	11677434	Feb 21, 2007	Reduction of Hydrogen Sulfide in Water Treatment Systems or other Systems that Collect and Transmit Bi-Phasic Fluids	8172952	May 8, 2012
United States of America	13341944	Dec 31, 2011	Compositions for Reducing Hydrogen Sulfide in Water Treatment Systems or other Systems that Collect and Transmit Bi-Phasic Fluids		
Australia	2008201670	Apr 17, 2008	Foamed Fluid Additive for Underbalance Drilling	2008201670	Mar 27, 2014
Canada	2629177	Apr 16, 2008	Foamed Fluid Additive for Underbalance Drilling	2629177	Oct 9, 2012

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
Norway	20081800	Apr 14, 2008	Foamed Fluid Additive for Underbalance Drilling		
United Kingdom	08067696	Apr 15, 2008	Foamed Fluid Additive for Underbalance Drilling	2448968	Aug 17, 2011
United States of America	11736992	Apr 18, 2007	Foamed Fluid Additive for Underbalance Drilling	7992653	Aug 9, 2011
Australia	2008201758	Apr 22, 2008	Delayed Hydrocarbon Gel Crosslinkers and Methods for Making and Using Same	2008201758	Jul 15, 2013
Canada	2629765	Apr 24, 2008	Delayed Hydrocarbon Gel Crosslinkers and Methods for Making and Using Same	2629765	Feb 21, 2012
Norway	20081907	Apr 22, 2008	Delayed Hydrocarbon Gel Crosslinkers and Methods for Making and Using Same		
United Kingdom	08070096	Apr 17, 2008	Delayed Hydrocarbon Gel Crosslinkers and Methods for Making and Using Same	2448805	Jul 11, 2012
United States of America	11741110	Apr 27, 2007	Delayed Hydrocarbon Gel Crosslinkers and Methods for Making and Using Same	8158562	Apr 17, 2012
Australia	2008202070	May 9, 2008	Apparatus, Compositions, and Methods of Breaking Fracturing Fluids	2008202070	Jul 15, 2013
Canada	2631000	May 9, 2008	Apparatus, Compositions, and Methods of Breaking Fracturing Fluids	2631000	Feb 21, 2012
Norway	20082164	May 9, 2008	Apparatus, Compositions, and Methods of Breaking Fracturing Fluids		
United Kingdom	08083883	May 9, 2008	Apparatus, Compositions, and Methods of Breaking Fracturing Fluids	2450204	Oct 12, 2011
United States of America	12116072	May 6, 2008	Apparatus, Compositions, and Methods of Breaking Fracturing Fluids	7942201	May 17, 2011
United States of America	13079081	Apr 4, 2011	Apparatus and Compositions for Breaking Fracturing Fluids		
Canada	2634446	Jun 6, 2008	Improved Polymeric Gel System and Methods for Making and Using Same in Hydrocarbon Recovery	2634446	Oct 2, 2012

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
United Kingdom	08103707	Jun 6, 2008	Improved Polymeric Gel System and Methods for Making and Using Same in Hydrocarbon Recovery	2450601	Oct 31, 2012
United Kingdom	11208535	Dec 5, 2011	Improved Polymeric Gel System and Methods for Making and Using Same in Hydrocarbon Recovery	2483813	Jan 2, 2013
United States of America	11760581	Jun 8, 2007	Polymeric Gel System and Methods for Making and Using Same in Hydrocarbon Recovery	8273693	Sep 25, 2012
United States of America	13606251	Sep 7, 2012	Improved Polymeric Gel System and Methods for Making and Using Same in Hydrocarbon Recovery	8772203	Jul 8, 2014
United States of America	13607985	Sep 10, 2012	Polymeric Gel System and Methods for Making and Using Same in Hydrocarbon Recovery		
Canada	2653373	Feb 10, 2009	Compositions and Methods for Gas and Oil Well Treatment	2653373	Feb 5, 2013
United Kingdom	09014853	Jan 30, 2009	Compositions and Methods for Gas and Oil Well Treatment	2457151	May 23, 2012
United States of America	12029335	Feb 11, 2008	Compositions and Methods for Gas Well Treatment	7989404	Aug 2, 2011
United States of America	12237130	Sep 24, 2008	Compositions and Methods for Gas Well Treatment	7886824	Feb 15, 2011
United States of America	13079069	Apr 4, 2011	Methods for Gas Well Treatment	8220546	Jul 17, 2012
Canada	2673367	Jul 20, 2009	Hydrolyzed Nitrilotriacetoneitrile Compositions, Nitrilotriacetoneitrile Hydrolysis Formations and Methods for Making and Using Same	2673367	May 21, 2013
Gulf Cooperation Council	P200913944	Jul 20, 2009	Hydrolyzed Nitrilotriacetoneitrile Compositions, Nitrilotriacetoneitrile		

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
			Hydrolysis Formations and Methods for Making		
India	956KOL2009	Jul 8, 2009	Hydrolyzed Nitrilotriacetonitrile Compositions, Nitrilotriacetonitrile Hydrolysis Formations and Methods for Making		
United States of America	12176872	Jul 21, 2008	Composition for Short & Efficient Hydrolysis of Nitrilotriacetonitrile Formations and Methods for Making	7956217	Jun 7, 2011
United States of America	13112012	May 20, 2011	Hydrolyzed Nitrilotriacetonitrile Compositions, Nitrilotriacetonitrile Hydrolysis Formations and Methods for Making	8362298	Jan 29, 2013
United States of America	13112032	May 20, 2011	Hydrolyzed Nitrilotriacetonitrile Compositions, Nitrilotriacetonitrile Hydrolysis Formations and Methods for Making	8258339	Sep 4, 2012
Argentina	P090102476	Jul 2, 2009	Enhanced Oil-Based Foam Drilling Fluid Compositions and Method for Making and Using Same		
Australia	2009202539	Jun 25, 2009	Enhanced Oil-Based Foam Drilling Fluid Compositions and Method for Making and Using Same	2009202539	Jan 5, 2012
Brazil	PI09023615	Jul 1, 2009	Enhanced Oil-Based Foam Drilling Fluid Compositions and Method for Making and Using Same		
Canada	2670893	Jun 30, 2009	Enhanced Oil-Based Foam Drilling Fluid Compositions and Method for Making and Using Same	2670893	Mar 12, 2013

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
Gulf Cooperation Council	P200913821	Jul 1, 2009	Enhanced Oil-Based Foam Drilling Fluid Compositions and Method for Making and Using Same		
India	931KOL2009	Jun 30, 2009	Enhanced Oil-Based Foam Drilling Fluid Compositions and Method for Making and Using Same		
Russian Federation	2009125304	Jul 1, 2009	Enhanced Oil-Based Foam Drilling Fluid Compositions and Method for Making and Using Same	2435018	Jun 10, 2011
United States of America	12167087	Jul 2, 2008	Enhanced Oil-Based Foam Drilling Fluid Compositions and Method for Making and Using Same	8141661	Mar 27, 2012
Argentina	P090103774	Sep 30, 2009	Foamed Gel Systems for Fracturing Subterranean Formations and Methods for Making and Using Same		
Australia	2009225333	Oct 14, 2009	Foamed Gel Systems for Fracturing Subterranean Formations and Methods for Making and Using Same	2009225333	Oct 14, 2009
Brazil	PI09046321	Nov 12, 2009	Foamed Gel Systems for Fracturing Subterranean Formations and Methods for Making and Using Same		
Canada	2684805	Nov 6, 2009	Foamed Gel Systems for Fracturing Subterranean Formations and Methods for Making and Using Same	2684805	Jul 10, 2012
European Patent Office	131529851	Nov 13, 2009	Foamed Gel Systems for Fracturing Subterranean Formations and Methods for Making and Using Same		
European Patent Office	092526193	Nov 13, 2009	Foamed Gel Systems for Fracturing Subterranean Formations and Methods for Making and Using Same	2186870	Jan 8, 2014
Germany	092526193	Nov 13, 2009	Foamed Gel Systems for Fracturing Subterranean Formations and Methods for Making and Using Same	602009021261.3	Jan 14, 2014

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
Poland	092526193	Nov 13, 2009	Foamed Gel Systems for Fracturing Subterranean Formations and Methods for Making and Using Same	2186870	Jan 8, 2014
Romania	092526193	Nov 13, 2009	Foamed Gel Systems for Fracturing Subterranean Formations and Methods for Making and Using Same	2186870	Jan 8, 2014
United Kingdom	092526193	Nov 13, 2009	Foamed Gel Systems for Fracturing Subterranean Formations and Methods for Making and Using Same	2186870	Jan 8, 2014
Gulf Cooperation Council	P200914640	Nov 7, 2009	Foamed Gel Systems for Fracturing Subterranean Formations and Methods for Making and Using Same		
India	3208KOL2009	Sep 9, 2009	Foamed Gel Systems for Fracturing Subterranean Formations and Methods for Making and Using Same		
Mexico	MXA09012311	Nov 13, 2009	Foamed Gel Systems for Fracturing Subterranean Formations and Methods for Making and Using Same	294647	Jan 13, 2012
Russian Federation	2009142018	Nov 13, 2009	Foamed Gel Systems for Fracturing Subterranean Formations and Methods for Making and Using Same	2436828	Jul 6, 2011
United States of America	12271580	Nov 14, 2008	Foamed Gel Systems for Fracturing Subterranean Formations and Methods for Making and Using Same	7932214	Apr 26, 2011
Argentina	P0901103722	Sep 28, 2009	Stable Foamed Cements Slurry Composition and Methods for Making and Using Same		
Australia	2009213083	Sep 11, 2009	Stable Foamed Cement Slurry Compositions and Methods for Making and Using Same	2009213083	Jan 5, 2012
Brazil	PI09038841	Sep 29, 2009	Stable Foamed Cement Slurry Compositions and Methods for Making and Using Same		

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
Canada	2679819	Sep 22, 2009	Stable Foamed Cement Slurry Compositions and Methods for Making and Using Same	2679819	Sep 11, 2012
European Patent Office	092522812	Sep 25, 2009	Stable Foamed Cement Slurry Compositions and Methods for Making and Using Same		
Gulf Cooperation Council	P200914362	Sep 27, 2009	Stable Foamed Cement Slurry Compositions and Methods for Making and Using Same		
India	1162KOL2009	Sep 16, 2009	Stable Foamed Cement Slurry Compositions and Methods for Making and Using Same		
Mexico	MXA09010410	Sep 28, 2009	Stable Foamed Cement Slurry Compositions and Methods for Making and Using Same	299818	Jun 1, 2012
Russian Federation	2009136004	Sep 28, 2009	Stable Foamed Cement Slurry Compositions and Methods for Making and Using Same	2447043	Oct 27, 2011
United States of America	12240987	Sep 29, 2008	Stable Foamed Cements Slurry Composition and Methods for Making and Using Same	8287640	Oct 16, 2012
United States of America	13648532	Oct 10, 2012	Stable Foamed Cement Slurry Compositions and Methods for Making and Using Same	8475585	Jul 2, 2013
Canada	2691717	Feb 2, 2010	Aldehyde-amine Formulations and Method for Making and Using Same	2691717	Apr 2, 2013
European Patent Office	102501772	Feb 2, 2010	Aldehyde-amine Formulations and Method for Making and Using Same	2213648	Aug 14, 2013
Germany	102501772	Feb 2, 2010	Aldehyde-amine Formulations and Method for Making and Using Same	602010009373.5	Aug 14, 2013
France	102501772	Feb 2, 2010	Aldehyde-amine Formulations and Method for Making and Using Same	2213648	Aug 14, 2013
Poland	102501772	Feb 2, 2010	Aldehyde-amine Formulations and Method for Making and Using Same	2213648	Aug 14, 2013

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
Romania	102501772	Feb 2, 2010	Aldehyde-amine Formulations and Method for Making and Using Same	2213648	Aug 14, 2013
United States of America	12364154	Feb 2, 2009	Aldehyde-amine Formulations and Method for Making and Using Same	8093431	Jan 10, 2012
Canada	2711335	Jul 27, 2010	Secondary Emulsifiers for Inverted Emulsion Fluids and Methods for Making and Using Same	2711335	Sep 18, 2012
European Patent Office	102513322	Jul 27, 2010	Secondary Emulsifiers for Inverted Emulsion Fluids and Methods for Making and Using Same		
Netherlands	102513322	Jul 27, 2010	Secondary Emulsifiers for Inverted Emulsion Fluids and Methods for Making and Using Same	2280051	
Norway	102513322	Jul 27, 2010	Secondary Emulsifiers for Inverted Emulsion Fluids and Methods for Making and Using Same	2280051	
Romania	102513322	Jul 27, 2010	Secondary Emulsifiers for Inverted Emulsion Fluids and Methods for Making and Using Same	2280051	
United Kingdom	102513322	Jul 27, 2010	Secondary Emulsifiers for Inverted Emulsion Fluids and Methods for Making and Using Same	2280051	
Mexico	MXa2010008157	Jul 26, 2010	Secondary Emulsifiers for Inverted Emulsion Fluids and Methods for Making and Using Same		
United States of America	12510101	Jul 27, 2009	Secondary Emulsifiers for Inverted Emulsion Fluids and Methods for Making and Using Same	7915203	Mar 29, 2011
Canada	2706209	Jun 4, 2010	Winterizing Agents for Oil Base Polymer Slurries and Method for Making and Using Same	2706209	Sep 3, 2013
China	2010101983740	Jun 4, 2010	Winterizing Agents for Oil Base Polymer Slurries and Method for Making and Using Same	101906289	Oct 30, 2013

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China	2013105749093	Jun 4, 2010	Winterizing Agents for Oil Base Polymer Slurries and Method for Making and Using Same		
European Patent Office	131889651	Jun 2, 2010	Winterizing Agents for Oil Base Polymer Slurries and Method for Making and Using Same		
European Patent Office	102510187	Jun 2, 2010	Winterizing Agents for Oil Base Polymer Slurries and Method for Making and Using Same		
Russian Federation	2010122987	Jun 4, 2010	Winterizing Agents for Oil Base Polymer Slurries and Method for Making and Using Same	2445335	Nov 1, 2011
United States of America	12479486	Jun 5, 2009	Winterizing Agents for Oil Base Polymer Slurries and Method for Making and Using Same		
Australia	2010201906	May 12, 2010	Methods for Increase Gas Production and Load Recovery	2010201906	Mar 22, 2012
Canada	2703460	May 12, 2010	Methods for Increase Gas Production and Load Recovery	2703460	Aug 6, 2013
European Patent Office	110053451	Jun 30, 2011	Methods for Increase Gas Production and Load Recovery	2371924	Jul 2, 2014
Germany	110053451	Jun 30, 2011	Methods for Increase Gas Production and Load Recovery	2371924	Jul 2, 2014
France	110053451	Jun 30, 2011	Methods for Increase Gas Production and Load Recovery	2371924	Jul 2, 2014
Poland	110053451	Jun 30, 2011	Methods for Increase Gas Production and Load Recovery	2371924	Jul 2, 2014
United Kingdom	110053451	Jun 30, 2011	Methods for Increase Gas Production and Load Recovery	2371924	Jul 2, 2014
European Patent Office	102509098	May 12, 2010	Methods for Increase Gas Production and Load Recovery	2251395	Jul 30, 2014
Germany	102509098	May 12, 2010	Methods for increase Gas Production and Load Recovery	2251395	Jul 30, 2014

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
France	102509098	May 12, 2010	Methods for Increase Gas Production and Load Recovery	2251395	Jul 30, 2014
Poland	102509098	May 12, 2010	Methods for Increase Gas Production and Load Recovery	2251395	Jul 30, 2014
United Kingdom	102509098	May 12, 2010	Methods for Increase Gas Production and Load Recovery	2251395	Jul 30, 2014
United States of America	12464351	May 12, 2009	Methods for Increase Gas Production and Load Recovery		
Canada	2794274	Sep 24, 2012	System and Method for Scale Inhibition		
United Kingdom	12096319	Mar 30, 2011	System and Method for Scale Inhibition		
United States of America	12750335	Mar 30, 2010	System and Method for Scale Inhibition		
Australia	2010201907	May 12, 2010	Aggregating Compositions, Modified Particulate Metal-oxides, Modified Formulaton Surfaces, and Methods....	2010201907	Dec 13, 2012
Canada	2703437	May 12, 2010	Aggregating Compositions, Modified Particulate Metal-oxides, Modified Formulaton Surfaces, and Methods....	2703437	Aug 21, 2012
European Patent Office	102509205	May 13, 2010	Aggregating Compositions, Modified Particulate Metal-oxides, Modified Formulaton Surfaces, and Methods....		
United States of America	12465437	May 13, 2009	Aggregating Compositions, Modified Particulate Metal-Oxides, Modified Formulaton Surfaces, and Methods for Making and Using Same	8466094	Jun 18, 2013
Canada	2708925	Jul 2, 2010	Environmentally Benign Water Scale Inhibitor Compositions and Method for Making and Using Same	2708925	Feb 4, 2014
European Patent Office	102511995	Jul 2, 2010	Environmentally Benign Water Scale Inhibitor Compositions and Method for Making and Using Same		

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
United States of America	12497399	Jul 2, 2009	Environmentally Benign Water Scale Inhibitor Compositions and Method for Making and Using Same		
Canada	2740453	May 16, 2011	Resin and Foam Resin Sealants for Zonal Isolation and Methods for Making and Using Same	2740453	Oct 22, 2013
Gulf Cooperation Council	P201118426	May 18, 2011	Resin and Foam Resin Sealants for Zonal Isolation and Methods for Making and Using Same		
Mexico	MXa2011005373	May 20, 2011	Resin and Foam Resin Sealants for Zonal Isolation and Methods for Making and Using Same		
United Kingdom	11083326	May 18, 2011	Resin and Foam Resin Sealants for Zonal Isolation and Methods for Making and Using Same	2480546	Jun 26, 2013
United States of America	12784479	May 20, 2010	Resin Sealant for Zonal Isolation and Methods for Making and Using Same		
Argentina	20110101230	Apr 12, 2011	Compositions and Method for Breaking Hydraulic Fracturing Fluids		
Australia	2011201574	Apr 7, 2011	Compositions and Method for Breaking Hydraulic Fracturing Fluids	2011201574	Jul 25, 2013
Brazil	PI11015039	Apr 12, 2011	Compositions and Method for Breaking Hydraulic Fracturing Fluids		
Canada	2737191	Apr 12, 2011	Compositions and Method for Breaking Hydraulic Fracturing Fluids		
European Patent Office	110030319	Apr 11, 2011	Compositions and Method for Breaking Hydraulic Fracturing Fluids	2374861	Mar 5, 2014
Germany	110030319	Apr 11, 2011	Compositions and Method for Breaking Hydraulic Fracturing Fluids	602011005125.3	Mar 5, 2014
Poland	110030319	Apr 11, 2011	Compositions and Method for Breaking Hydraulic Fracturing Fluids	2374861	Mar 5, 2014
United Kingdom	110030319	Apr 11, 2011	Compositions and Method for Breaking Hydraulic Fracturing Fluids	2374861	Mar 5, 2014

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
Mexico	MXa2011003853	Apr 11, 2011	Compositions and Method for Breaking Hydraulic Fracturing Fluids	318690	Mar 18, 2014
Russian Federation	2011114109	Apr 11, 2011	Compositions and Method for Breaking Hydraulic Fracturing Fluids	2471847	Jan 10, 2013
United States of America	12758466	Apr 12, 2010	Compositions and Method for Breaking Hydraulic Fracturing Fluids		
United States of America	14328878	Jul 11, 2014	Compositions and Method for Breaking Hydraulic Fracturing Fluids		
Australia	2011203325	Jul 7, 2011	Use of Zeta Potential Modifiers to Decrease the Residual oil Saturation	2011203325	Apr 24, 2014
Canada	2745640	Jul 7, 2011	Use of Zeta Potential Modifiers to Decrease the Residual oil Saturation		
European Patent Office	112506373	Jul 5, 2011	Use of Zeta Potential Modifiers to Decrease the Residual oil Saturation		
United States of America	12832222	Jul 8, 2010	Use of Zeta Potential Modifiers to Decrease the Residual oil Saturation		
United States of America	14308160	Jun 18, 2014	Zeta Potential Modifiers to Decrease the Residual Oil Saturation		
Brazil	PI11045590	Sep 16, 2011	Complementary Surfactant Compositions and Methods for Making and Using Same		
Canada	2752261	Sep 14, 2011	Complementary Surfactant Compositions and Methods for Making and Using Same	2752261	Oct 29, 2013
Gulf Cooperation Council	P201119284	Sep 14, 2011	Complementary Surfactant Compositions and Methods for Making and Using Same		
Mexico	MXa2011009695	Sep 14, 2011	Complementary Surfactant Compositions and Methods for Making and Using Same	315219	Nov 8, 2013
Russian Federation	2011138206	Sep 16, 2011	Complementary Surfactant Compositions and Methods for Making and Using Same	2487908	Jul 20, 2013
United Kingdom	11154952	Sep 8, 2011	Complementary Surfactant Compositions and Methods for Making and Using Same		

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
United States of America	12885062	Sep 17, 2010	Complementary Surfactant Compositions and Methods for Making and Using Same	8524639	Sep 3, 2013
United States of America	13965411	Aug 13, 2013	Methods for Using Complementary Surfactant Compositions		
Brazil	PI11049251	Sep 16, 2011	Defoamer Formulation and Methods for Making and Using Same		
Canada	2752295	Sep 14, 2011	Defoamer Formulation and Methods for Making and Using Same	2752295	Jan 7, 2014
Gulf Cooperation Council	P201119279	Sep 14, 2011	Defoamer Formulation and Methods for Making and Using Same		
Mexico	MXa2011009692	Sep 14, 2011	Defoamer Formulation and Methods for Making and Using Same		
Russian Federation	2011138209	Sep 16, 2011	Defoamer Formulation and Methods for Making and Using Same	2495901	Oct 20, 2013
United Kingdom	11155579	Sep 9, 2011	Defoamer Formulation and Methods for Making and Using Same	2483771	Nov 28, 2012
United States of America	12885102	Sep 17, 2010	Omni Defoamer Formulation and Use		
United States of America	14328868	Jul 11, 2014	Defoamer Formulation and Methods for Making and Using Same		
Brazil	PI11051035	Sep 19, 2011	Environmentally Friendly Base Fluids and Methods for Making and Using Same		
Canada	2752264	Sep 14, 2011	Environmentally Friendly Base Fluids and Methods for Making and Using Same		
Gulf Cooperation Council	P201119280	Sep 14, 2011	Environmentally Friendly Base Fluids and Methods for Making and Using Same		
Mexico	MXa2011009691	Sep 14, 2011	Environmentally Friendly Base Fluids and Methods for Making and Using Same		
Russian Federation	2011138212	Sep 16, 2011	Environmentally Friendly Base Fluids and Methods for Making and Using Same	2503704	Jan 10, 2014

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
United Kingdom	11155876	Sep 9, 2011	Environmentally Friendly Base Fluids and Methods for Making and Using Same	2483773	Mar 13, 2013
United States of America	12885128	Sep 17, 2010	Environmentally Friendly Drilling Fluids		
PCT	PCTUS14028514	Mar 14, 2014	Direct Slurry Weight Sensor for Well Operation Mixing Process		
United States of America	61794150	Mar 15, 2013	Direct Slurry Weight Sensor		
United States of America	14212672	Mar 14, 2014	Direct Slurry Weight Sensor for Well Operation		
Canada	2752928	Sep 21, 2011	Novel Weight Materials for Use in Cement, Spacer and Drilling Fluids		
Gulf Cooperation Council	P201119369	Sep 26, 2011	Novel Weight Materials for Use in Cement, Spacer and Drilling Fluids		
Mexico	MXa2011010193	Sep 28, 2011	Novel Weight Materials for Use in Cement, Spacer and Drilling Fluids		
Russian Federation	2011139421	Sep 27, 2011	Novel Weight Materials for Use in Cement, Spacer and Drilling Fluids	2520233	Jun 20, 2014
United Kingdom	11162088	Sep 20, 2011	A Cement Composition Comprising Metal Silicon Alloys	2484184	Nov 6, 2013
United States of America	12892584	Sep 28, 2010	Novel Weight Materials for Use in Cement, Spacer and Drilling Fluids		
European Patent Office	127875169	Mar 10, 2014	Aggregating Reagents and Methods for Making and Using Same		
PCT	PCTIB1255341	Oct 4, 2012	Aggregating Reagents and Methods for Making and Using Same		
Brazil	1120140070717	Mar 25, 2014	Aggregating Reagents and Methods for Making and Using Same		
Canada	2849947	Mar 25, 2014	Aggregating Reagents and Methods for Making and Using Same		

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
Malaysia	2014000923	Oct 4, 2012	Aggregating Reagents and Methods for Making and Using Same		
United States of America	13247985	Sep 28, 2011	Aggregating Reagents and Methods of Using Same		
United States of America	13109712	May 17, 2011	Management of Corrosion in Phosphate Brines		
United States of America	13117304	May 27, 2011	Formulations and Uses of Downhole Fluids Containing Viscosified Phosphate Brines		
United States of America	13094806	Apr 26, 2011	Dry Polymer Mixing Process		
United States of America	13052947	Mar 21, 2011	Enhancing Drag Reduction Properties on Slick Water Systems		
United States of America	13053975	Mar 22, 2011	Foamed Resin Sealant for Zonal Isolation and Methods for Making and Using Same		
United States of America	14328853	Jul 11, 2014	Foam Resin Sealant for Zonal Isolation and Methods for Making and Using Same		
United States of America	13102053	May 6, 2011	Enhancing Delaying In Situ Gelation of Water Shutoff Systems		
European Patent Office	127882728	Sep 27, 2012	Hostile Environment Stable Compositions and Drilling and Fracturing Fluids Containing Same		
PCT	PCTIB1255151	Sep 27, 2012	Hostile Environment Stable Compositions and Drilling and Fracturing Fluids Containing Same		
Australia	2012313898	Mar 31, 2014	Hostile Environment Stable Compositions and Drilling and Fracturing Fluids Containing Same		
Canada	2850172	Mar 26, 2014	Hostile Environment Stable Compositions and Drilling and Fracturing Fluids Containing Same		

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
Russian Federation	2014117620	Apr 29, 2014	Hostile Environment Stable Compositions and Drilling and Fracturing Fluids Containing Same		
United States of America	13249819	Sep 30, 2011	Hostile Environment Stable Compositions and Drilling and Fracturing Fluids Containing Same		
United States of America	13348267	Jan 11, 2012	Corrosion Inhibitor for High Temperature Environments		
Gulf Cooperation Council	P201324101	Apr 15, 2013	Gas Hydrate Inhibitors and Methods for Making and Using Same		
PCT	PCTIB1256769	Nov 27, 2012	Gas Hydrate Inhibitors and Methods for Making and Using Same		
Canada	2861096	Jul. 11, 2014	Gas Hydrate Inhibitors and Methods for Making and Using Same		
United States of America	13348279	Jan 11, 2012	Gas Hydrate Inhibitors and Methods for Making and Using Same		
PCT	PCTUS1367777	Oct 31, 2013	Novel Strontium Carbonate Bridging Materials and Methods for Making and Using Same		
United States of America	14068621	Oct 31, 2013	Novel Strontium Carbonate Bridging Materials and Methods for Making and Using Same		
Australia	2013337812	May 29, 2015	Novel Strontium Carbonate Bridging Materials and Methods for Making and Using Same		
Brazil	BR112015009925-4	Apr 30, 2015	Novel Strontium Carbonate Bridging Materials and Methods for Making and Using Same		
Colombia	15-123003	May 29, 2015	Novel Strontium Carbonate Bridging Materials and Methods for Making and Using Same		
Europe	13852145.5	May 18, 2015	Novel Strontium Carbonate Bridging Materials and Methods for Making and Using Same		

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
Mexico	MX/a/2015/005530	Apr 30, 2015	Novel Strontium Carbonate Bridging Materials and Methods for Making and Using Same		
Canada	2890052	May 8, 2015	Novel Strontium Carbonate Bridging Materials and Methods for Making and Using Same		
PCT	PCTUS1374260	Dec 11, 2013	Novel Weight Materials for Use in Cement, Spacer and Drilling Fluids		
United States of America	14102658	Dec 11, 2013	Novel Weight Materials for Use in Cement, Spacer and Drilling Fluids		
United Arab Emirates	782/2015	Jun 11, 2015	Novel Weight Materials for Use in Cement, Spacer and Drilling Fluids		
Brazil	112015013983-3		Novel Weight Materials for Use in Cement, Spacer and Drilling Fluids		
Canada	2894755	Jun 10, 2015	Novel Weight Materials for Use in Cement, Spacer and Drilling Fluids		
Colombia	15-134219	Jun 11, 2015	Novel Weight Materials for Use in Cement, Spacer and Drilling Fluids		
United Kingdom	1509906.2	Jun 8, 2015	Novel Weight Materials for Use in Cement, Spacer and Drilling Fluids		
Norway	20150791	Jun 17, 2015	Novel Weight Materials for Use in Cement, Spacer and Drilling Fluids		
Oman	OM/P/2015/00154	Jun 14, 2015	Novel Weight Materials for Use in Cement, Spacer and Drilling Fluids		
Peru	000929-2015	Jun 12, 2015	Novel Weight Materials for Use in Cement, Spacer and Drilling Fluids		
Qatar	QA201506/00243	Jun 8, 2015	Novel Weight Materials for Use in Cement, Spacer and Drilling Fluids		
Russia	2015128270	Jul 15, 2015	Novel Weight Materials for Use in Cement, Spacer and Drilling Fluids		
Saudi Arabia	515360564	Jun 11, 2015	Novel Weight Materials for Use in Cement, Spacer and Drilling Fluids		

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
United States of America	61942781	Feb 21, 2014	Synthetic Hydratable Polymers for Use in Fracturing Fluids and Methods for Making and Using Same		
Argentina	20150100531	Feb 23, 2015	Synthetic Hydratable Polymers for Use in Fracturing Fluids and Methods for Making and Using Same		
PCT	PCT/IB15/051313	Feb 20, 2015	Synthetic Hydratable Polymers for Use in Fracturing Fluids and Methods for Making and Using Same		
United States of America	14628223	Feb 21, 2015	Synthetic Hydratable Polymers for Use in Fracturing Fluids and Methods for Making and Using Same		
PCT	PCTIB14062796	Jul 2, 2014	Visco Elastic Surfactant Crosslinked with Divalent Ions		
United States of America	61842866	Jul 3, 2013	Visco Elastic Surfactant Crosslinked with Divalent Ions		
United States of America	14322688	Jul 2, 2014	ViscoElastic Surfactants Crosslinked with Divalent Ions and Methods for Making and Using Same		
Argentina	20140103741	Oct. 7, 2014	Reusable High Performance Water Based Drilling Fluids		
Colombia	15-94.973	Jul 17, 2015	Reusable High Performance Water Based Drilling Fluids		
PCT	PCTIB14065110	Oct. 7, 2014	Reusable High Performance Water Based Drilling Fluids		
United States of America	61888325	Oct 8, 2013	Reusable High Performance Water Based Drilling Fluids		
United States of America	14506137	Oct. 3, 2014	Reusable High Performance Water Based Drilling Fluids		
PCT	PCTIB14064347	Sep 9, 2014	Lost Circulation and Fluid Loss Materials Containing Guar Chaff and Methods for Making and Using Same		
United States of America	61875145	Sep 9, 2013	Lost Circulation and Fluid Loss Materials Containing Guar Chaff and Methods for Making and Using Same		

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
United States of America	14476937	Sep 4, 2014	Lost Circulation and Fluid Loss Materials Containing Guar Chaff and Methods for Making and Using Same		
United States of America	61928228	Jan 16, 2014	Anti-gel Agent for Polyhydroxyaminoethers, Gel Stabilized Polyhydroxyaminoether Solutions, and Methods for Making and Using Same		
United States of America	14595276	Jan 13, 2015	Anti-gel Agent for Polyhydroxyaminoethers, Gel Stabilized Polyhydroxyaminoether Solutions, and Methods for Making and Using Same		
PCT	PCTIB15050340	Jan 16, 2015	Anti-gel Agent for Polyhydroxyaminoethers, Gel Stabilized Polyhydroxyaminoether Solutions, and Methods for Making and Using Same		
United States of America	62036722	Aug 13, 2014	Environmentally Acceptable Paraffin Dispersant, and Methods for Making and Using Same		
United States of America	14301247	Jun. 10, 2014	Non-Alkyl Pyridine Sour Corrosion Inhibitors		
United States of America	14257830	Apr 21, 2014	Self-Degradable Hydraulic Diversion Systems and Methods for Making and Using Same		
Argentina	20150101844	Jun. 10, 2015	Non-Alkyl Pyridine Sour Corrosion Inhibitors		
Canada	Unknown	Jun. 9, 2015	Non-Alkyl Pyridine Sour Corrosion Inhibitors		
Colombia	15-131549	Jun. 9, 2015	Non-Alkyl Pyridine Sour Corrosion Inhibitors		

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
Gulf Cooperation Treaty	GC2015-29519	Jun. 10, 2015	Non-Alkyl Pyridine Sour Corrosion Inhibitors		
United States of America	14546288	Nov. 18, 2014	Method to Consolidate SandAid Treated Surfaces		
US	14560172	Dec. 4, 2014	Gas Hydrate Inhibitors and Methods for Making and Using Same		
US	14560185	Dec. 4, 2014	Gas Hydrate Inhibitors and Methods for Making and Using Same		
PCT	PCTIB14002490	Nov. 19, 2014	Methods and Systems for Creating High Conductivity Fractures		
United States of America	14546246	Nov. 18, 2014	Methods and Systems for Creating High Conductivity Fractures		
Argentina	20140104335	Nov. 19, 2014	Methods and Systems for Creating High Conductivity Fractures		
PCT	PCT/IB14/002498	Nov. 18, 2014	Method to Consolidate Solid Materials During Subterranean Treatment Operations		
Argentina	20140104334	Nov. 19, 2014	Method to Consolidate Solid Materials During Subterranean Treatment Operations		
United States of America	14531027	Nov. 3, 2014	Resin Sealant for Zonal Isolation and Methods for Making and Using Same		
United States of America	14257782	Apr. 22, 2014	Hydraulic Diversion Systems to Enhance Matrix Treatments and Methods for Using Same		
PCT	PCT/US14/034831	Apr. 21, 2014	Hydraulic Diversion Systems to Enhance Matrix Treatments and Methods for Using Same		
United States of America	10695916	Oct 30, 2003	Packer Fluid	7219735	May 22, 2007
Europe	13188965.1	Jun 2, 2010	Winterizing Agents for Oil Base Polymer Slurries and Method for Making and Using Same	2687574	Aug 12, 2015

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COUNTRY NAME	APPLICATION NUMBER	DATE FILED	TITLE	PATENT NUMBER	GRANT DATE
United States of America	14211025	Mar 14, 2014	Environmentally Friendly Permanent Quaternaries of Polyamines and Their Use as Clay Stabilizers and Methods of Making and Using Same		
United States of America	14211066	Mar 14, 2014	Environmentally Friendly Permanent Quaternaries of Polyamines and Their Use as Clay Stabilizers and Methods of Making and Using Same		
United States of America	14628223	Feb 21, 2015	Synthetic Hydratable Polymers for Use in Fracturing Fluids and Methods for Making and Using Same		