PatBase - Search results 27 June 2019
Search query (2): [SP]: what is claimed is: 1. a method for scale inhibition treatment of fresh water or brine used in an oil, gas, or geothermal production well or subterranean formation comprising the step of introducing an aqueous scale inhibiting composition into the oil, gas, or geothermal production well or subterranean formation wherein the aqueous scale inhibiting composition comprises a polycarboxylic acid copolymer comprising the following monomers: i) two or more monoethylenically unsaturated acid and/or anhydride and/or one of its salts and ii) styrene sulfonic acid and/or one of its salts. 2. the method of claim 1 wherein i) the two or more monoethylenically unsaturated acid and/or anhydride and/or one of its salts are a) acrylic acid and b) methacrylic acid and ii) the styrene sulfonic acid and/or one of its salts is 4-styrene sulphonic acid. 3. the method of claim 2 wherein ia) the acrylic acid is present in an amount of 50 to 70 weight percent, ib) the methacrylic acid is present in an amount of 15 to 25 weight percent, and ii) styrene sulfonic acid and/or one of its salts is present in an amount of 15 to 25 weight percent, wherein weight percent is based on the total weight of the polymerized monomers. 4. the method of claim 1 wherein the polycarboxylic acid copolymer is a copolymer consisting of acrylic acid, methacrylic acid, and 4-styrene sulphonic acid having a weight average molecular weight of from 1,000 to 50,000 daltons. 5. the method of claim 1 wherein the aqueous scale inhibiting composition is introduced by a squeeze treatment. 6. the method of claim 1 wherein the aqueous scale inhibiting composition is introduced by a capillary injection treatment. 7. the method of claim 1 wherein the scale inhibiting treatment is preformed under temperature conditions from 230 degrees centigrade to 260 degrees centigrade 8. the method of claim 1 wherein the brine has a calcium concentration equal to or greater than 15,000 ppm.
Results: 11

1) Family number: 71885092 (US2018327294A)

Title: IRON SULFIDE SCALE CONTROL AGENT FOR GEOTHERMAL WELLS

Abstract: The disclosure relates to improved methods for inhibiting the formation and deposition of sulfide and silica scale in aqueous systems. In particular, the methods include injecting a composition into an aqueous system or wellbore. The composition includes a sulfide scale inhibitor and a silica scale inhibitor. The sulfide scale inhibitor may be a copolymer of acrylic acid or methacrylic acid and an anionic monomer. The silica scale inhibitor may be a copolymer of acrylic acid or methacrylic acid and an alkoxylated monomer.
Classifications:
International (IPC 8-9): C02F5/10 C02F5/12 C09K8/528 E21B37/06 F24T10/20 (Advanced/Invention)
CPC: C02F5/12 C02F2101/101 F24T10/20 E21B37/06 C09K8/528 C02F5/125 C02F2101/10 C02F2303/22

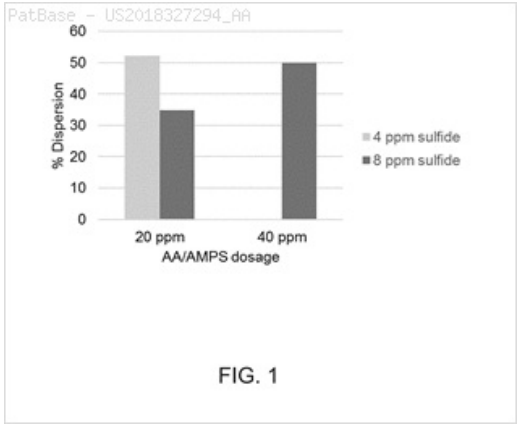


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
US2018327294 AA	20181115	US20180976977	20180511
WO18213105 A1	20181122	WO2018US32190	20180511

Priority:
US20170506444P 20170515 US20180976977 20180511

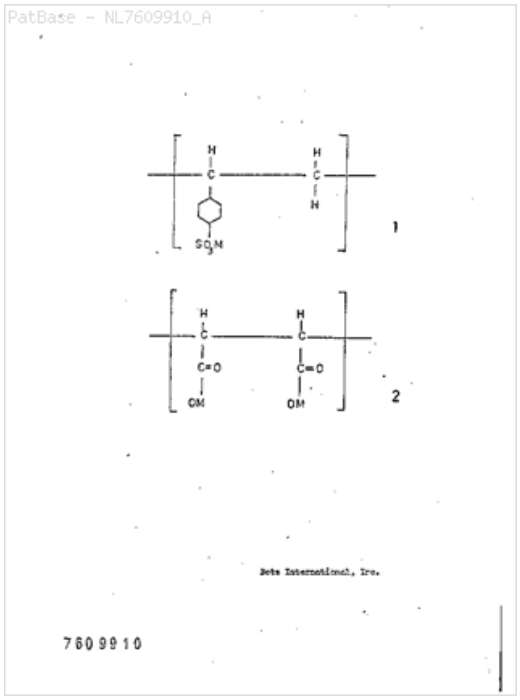
Probable Assignee: ECOLAB USA INC
Assignee(s): (std): ECOLAB USA INC
Inventor(s): (std): MANTRI DINESH ; GILL JASBIR S
Agent(s): BABYCH ERIC D
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW 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: 5069114 (US4288327A)

Title: Copolymers for the control of the formation and deposition of materials in aqueous mediums

Abstract: The present invention relates to processes for controlling the formation and deposition of scale and sludge and in particular calcium phosphate which would otherwise occur in aqueous mediums containing sludge and the ions capable of forming scale. The invention, more particularly, relates to the control, reduction and/or prevention of scale and sludge deposits in cooling water, scrubber and steam generating systems, evaporators, economizers, and the like by the introduction of a copolymer comprising sulfonated styrene and maleic anhydride moieties to the water used therein. The copolymers discovered to be particularly effective for the purpose are those having a mole ratio of sulfonated styrene moieties to moieties derived from maleic anhydride of from about 2:1 to about 4:1 and preferably 2:1 to 3:1 with certain type deposits.
Classifications:
International (IPC 8-9): C02F5/10 C11D7/22 (Advanced/Invention);

C02F5/10 (Core/Invention);
C08F C23F (Subclass/Invention)
International (IPC 1-7): C02B5/06 C02F5/10 C08F C11D7/22 C23F
CPC: C02F5/10
European: C02F5/10
US: 210/698



Family:

Publication number	Publication date	Application number	Application date
BE845937 A	19761231	BE19760170423	19760908
CA1062983 A1	19790925	CA19760259627	19760823
FR2322831 A1	19770401	FR19760026828	19760907
FR2322831 B1	19800430	FR19760026828	19760907
GB1534596 A	19781206	GB19760037125	19760908
IT1061304 A	19830228	IT19760049591	19760520
IT1076828 A	19850427	IT19760051837	19761021
NL164538 B	19800815	NL19760009910	19760907
NL164538 C	19810115	NL19760009910	19760907
NL7609910 A	19770310	NL19760009910	19760907
US4288327 A	19810908	US19790004646	19790119
US4288327 B1	19860715	US19790004646	19790119

Priority:
US19750610952 19750908 US19760689755 19760525 US19790004646 19790119

Probable Assignee: BETZ LABORATORIES

Assignee(s): (std): BETZ INT ; BETZ LABORATORIES

Assignee(s): BETZ LABORATORIES INC ; BETZ LABORATORIES LTD ; GODLEWSKI IRENE T ; SCHUCK JOSEPH J ; CHISARIK ANDREW S ; BETZ INT INC ; BETZ INTERNATIONAL INC ; BETZ INTERNATIONAL INC TE TREVOSE PENNSYLVANIE VER ST V AM ; BETZ INTERNATIONAL INC TREVOSE PENNSYLVANIE VER ST V AM

Inventor(s): (std): ANDREW S CHISARIK ; CHISARIK ANDREW S ; GODLEWSKI IRENE T ; IRENE T GODLEWSKI ; JOSEPH J SCHUCK ; SCHUCK JOSEPH J

Inventor(s): IRENE T GODLEWSKI ANDREW S CHISARIK ET JOSEPH J SC ; IRENE T GODLEWSKI ANDREW S CHISARIK ET JOSEPH J SCHUCK

3) Family number: 8462159 (US5294686A)

Title: Process for efficient utilization of chain transfer agent

Abstract: A process for efficiently utilizing hypophosphorous acid or salts thereof as a chain transfer agent is provided wherein the polymerization is conducted to a final polymer solids level of at least about 50 percent by weight. The polymers produced are useful as dispersants for paint formulations, additives for laundry and machine dishwashing detergents, mineral dispersants, dispersants for kaolin clay slurries and scale inhibitors, dispersants and corrosion inhibitors for water treatment and oil production.
Classifications:
International (IPC 8-9): C08F110/00 C08F2/38
C08F20/00 (Advanced/Invention);
C08F2/38 (Core/Invention);
C08F110/00 C08F2/38 (Core/Non-invention)
International (IPC 1-7): C08F110/00 C08F122/04 C08F2/38 C08F20/00
C08F20/04 C08F20/4
CPC: C08F2/38
European: C08F2/38
US: 526/233 526/271

Family:

Publication number	Publication date	Application number	Application date
AT166892 E	19980615	AT19940300992T	19940211
AU199455163 A1	19941006	AU19940055163	19940215
AU674368 B2	19961219	AU19940055163	19940215
BRPI9400027 A	19941101	BR1994PI00027	19940105
CA2110201 AA	19940930	CA19932110201	19931129
CN1057536 C	20001018	CN19941000601	19940104
CN1093091 A	19941005	CN19941000601	19940104
DE69410673 D1	19980709	DE19946010673	19940211
DE69410673 T2	19990318	DE19946010673T	19940211
EP0618240 A1	19941005	EP19940300992	19940211
EP0618240 B1	19980603	EP19940300992	19940211
ES2118325 T3	19980916	ES19940300992T	19940211
JP3343399 B2	20021111	JP19930155523	19930625
JP6287208 A2	19941011	JP19930155523	19930625
KR100309221 B1	20011215	KR19930027979	19931216
KR19940021596 A	19941019	KR19930027979	19931216
NZ250871 A	19950926	NZ19940250871	19940214
PH30160 A	19970121	PH19930047362	19931201
TW300232 B	19970311	TW19940100451	19940120
US5294686 A	19940315	US19930038429	19930329

Priority:

US19930038429 19930329 CA19932110201 19931129

Probable Assignee: ROHM AND HAAS CO

Assignee(s): (std): FIARMAM IRWIN S ; MCCALLUM THOMAS F ; ROHM AND HAAS ; WEINSTEIN BARRY

Assignee(s): ROHM AND HAAS CO ; ROHM AND HAAS COMPANY ; ROHM AND HAAS CO PHILADELPHIA PA US ; ROHM AND HAAS COUS ; MCCALLUM THOMAS F III ; MCCALLUM THOMAS FRANCIS III ; FIARMAM IRWIN STANLEY

Inventor(s): (std): FIARMAN IRWIN STANLEY ; MCCALLUM THOMAS FRANCIS III ; WEINSTEIN BARRY ; FIARMAM IRWIN S ; MCCALLUM THOMAS F III ; MCCALLUM III THOMAS FRANCIS ; MCCALLUM THOMAS FRANCIS ; TOOMASU FURANSHISU MATSUKARAMU ; FIARMAN I S ; WEINSTEIN B ; MCCALLUM T F ; AAUIN SUTANRII FUIAAMAN ; BARII UEINSUTEIN ; MC CALLUM III THOMAS FRANCIS ; MCCALLUM III THOMAS F ; FIARMAN IRWIN S

Inventor(s): FIARMAN IRWIN STANLEY WILLINGBORO NEW JERSEY... ; FIARMAM IRWIN STANLEY ; IRWIN STANLEY FIARMAN ; THOMAS FRANCIS MCCALLUM III ; BARRY WEINSTEIN ; WEINSTEIN BARRY DRESHER PENNSYLVANIA 19025 US ; FIARMAN IRWIN STANLEY WILLINGBORO NEW JERSEY 08046 ; MCCALLUM III THOMAS FRANCIS PHILADELPHIA 19130 US ; CALLUM III THOMAS FRANCIS MC ; T F MCCALLUM ; B WEINSTEIN ; I S FIARMAN ; TOOMASU FURANSHISU MATSUKARAMU ZA SAADO

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GOWLING LAFLEUR HENDERSON LLP

Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE

4) Family number: 29378216 (US5755972A)

Title: Method for metal sulfate scale control in harsh oilfield conditions

Abstract: A method for inhibiting barium sulfate precipitation in low pH aqueous fluids of underground petroleum-bearing formations by adding to such systems an effective amount of low molecular weight water-soluble polymer containing 5-35 weight percent sulfonic acid monomer units and 65-95 weight percent carboxylic acid monomer units, is provided. Polymer compositions based on 10-15 weight percent 2-acrylamido-2-methyl-1-propanesulfonic acid, 15-65 weight percent acrylic acid and 25-70 weight percent maleic acid are particularly preferred for use at very low pH conditions, e.g., 5.5 or less in the presence of high sulfate ion and barium ion concentrations.

Classifications:

International (IPC 8-9): C02F5/08 C02F5/10 C02F5/12 C09K8/528 C23F11/173 C23F15/00 E21B43/22 (Advanced/Invention)
International (IPC 1-7): C02F5/00 C02F5/08 C02F5/10 C02F5/12 C23F14/02 E21B37/06 E21B43/22
CPC: C02F5/10 C02F5/12 C09K8/528
European: C02F5/10 C02F5/12 C09K8/528
US: 166/279 166/310 210/698 210/701 252/180 507/121

Family:

Publication number	Publication date	Application number	Application date
AR005997 AA	19990721	AR1997P100757	19970225
AU199714749 A1	19970911	AU19970014749	19970217
AU706503 B2	19990617	AU19970014749	19970217
BRPI9701118 A	19980825	BR1997PI01118	19970227
CA2198841 AA	19970901	CA19972198841	19970228
CN1174817 A	19980304	CN19971009606	19970228
CO4560448 A1	19980210	CO19970010845	19970228
EP0792998 A1	19970903	EP19970301235	19970225
ID16097 A	19970904	ID19970000608	19970228
MX198823 B	20000927	MX19970001521	19970227
MX9701521 A1	19980630	MX19970001521	19970227
MX9701521 A1	19980628	MX19970001521	19970227
NO970854 A	19970902	NO19970000854	19970226
NO970854 A0	19970226	NO19970000854	19970226
NO970854 L	19970902	NO19970000854	19970226
SG52918 A1	19980928	SG19970000372	19970221
TH33122 A	19990610	TH19971000722	19970228
US5755972 A	19980526	US19970790868	19970203
ZA9701767 A	19970904	ZA19970001767	19970301

Priority:

US19960012656P 19960301 US19970790868 19970203 CA19972198841 19970228

Probable Assignee: ROHM AND HAAS CO

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Assignee(s): HANN WILLIAM MATHIS ; ROBERTSON SUSAN TABB ; WEINSTEIN BARRY

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Inventor(s): MATHIS DANN WILLIAM ; SUSAN TABB ROBERTSON ; WILLIAM MATHIS HANN ; WILLAM MATHIS HANN

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GOWLING LAFLEUR HENDERSON LLP; JOSE ANTONIO LLOREDA

Designated states: BE CH DE ES FR GB IT LI NL

5) Family number: 57700391 (US2016060147A)

Title: SCALE-INHIBITING POLYMERS AND METHODS FOR PREVENTING SCALE FORMATION

Abstract: Scale-inhibiting polymers, compositions comprising the scale-inhibiting polymers and methods for preventing scale formation in circulating fluid are provided. The scale-inhibiting polymers comprise two or more recurring monomers wherein in at least one recurring monomer is an allyl-sulfonate-containing monomer, and at least one recurring monomer is a styrene-sulfonate-containing monomer. The polymers, compositions and methods may be used in industrial processes including metal extraction from mineral ores.

Classifications:

International (IPC 8-9): C02F1/68 C02F5/10 C08F212/14 C08F228/02 C09K8/528 C22B3/00 (Advanced/Invention); C02F103/10 (Advanced/Non-invention)
CPC: C02F1/68 C08F228/02 C02F2103/10 C09K8/528 C02F5/10
US: 210/698 252/180 526/287

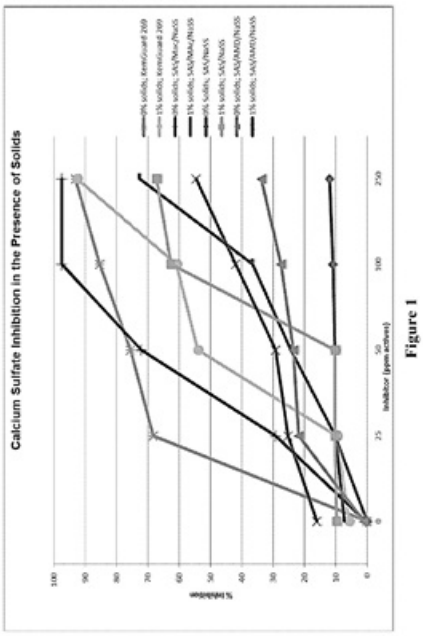


Figure 1

Family:

Publication number	Publication date	Application number	Application date
AP201508864 A0	20151130	AP20150008864	20140424
EP2989176 A1	20160302	EP20140788035	20140424
EP2989176 A4	20170118	EP20140788035	20140424
NZ631432 A	20170825	NZ20140631432	20140424
US2016060147 AA	20160303	US20140786370	20140424
WO14176419 A1	20141030	WO2014US35288	20140424

Priority:

US20130815629P 20130424 US20140786370 20140424 WO2014US35288 20140424

Probable Assignee: KEMIRA OYJ

Assignee(s): (std)**:** KEMIRA OYJ ; MOORE LUCAS ; SANDERS LAURA

Inventor(s): (std)**:** MOORE LUCAS ; SANDERS LAURA ; LUCAS MOORE ; LAURA SANDERS

Agent(s): CARPMAELS AND RANSFORD LLP; KAUFMAN REBECCA 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 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

6) Family number: 32765516 (US2003149210A)

Title: Inorganic deposit inhibitors, in particular in oil wells, particularly in high pressure/high temperature conditions

Abstract: The invention concerns inorganic deposit inhibitors, in particular in oil wells. Said inhibitors comprise a water soluble copolymer consisting of (in mol percent of polymerised monomers): a) 5 to 95 percent of styrenesulphonic acid or one of its salts; b) 5 to 95 percent of vinylsulphonic acid or one of its salts; c) 0 to 20 percent of one or several non-ionizable unsaturated monomers. They are particularly efficient against calcium carbonate and/or barium sulphate deposits. They are capable of being used in accordance with a so-called squeeze process in HP/MT conditions with desorption compatible with the desired treatment duration.

Classifications:
International (IPC 8-9): C02F1/00 C02F5/10 C08F212/14 C08F228/02 C08F28/02 C09K8/528 E21B37/06 (Advanced/Invention); C08F212/08 C08F218/00 (Advanced/Non-invention)
International (IPC 1-7): C02F5/10 C08F130/02 C08F212/08 C08F212/14 C08F218/00 C08F228/02 C09K7/02 E21B37/06 E21B43/00
CPC: C08F212/14 C08F228/02 C09K8/528
European: C08F212/14 C08F228/02 C09K8/528
US: 210/698 507/200 507/200P 526/278 526/278P 526/286 526/286S 526/287 526/346 526/346S

Family:

Publication number	Publication date	Application number	Application date
AT305015 E	20051015	AT20000993717T	20001228
AU200128611 A1	20010716	AU20010028611	20001228
AU200128611 A5	20010716	AU20010028611D	20001228
DE60022784 D1	20060202	DE20006022784	20001228
DE60022784 D1	20060202	DE20006022784T	20001228
DE60022784 T2	20060713	DE20006022784T	20001228

EP1261652 A1	20021204	EP20000993717	20001228
EP1261652 B1	20050921	EP20000993717	20001228
FR2803304 A1	20010706	FR19990016654	19991229
FR2803304 B1	20060324	FR19990016654	19991229
NO20023093 A	20020826	NO20020003093	20020626
NO20023093 A0	20020626	NO20020003093	20020626
NO20023093 L	20020826	NO20020003093	20020626
NO327144 B1	20090504	NO20020003093	20020626
US2003149210 AA	20030807	US20020169331	20021107
US2005096233 AA	20050505	US20040916540	20040812
US7378477 BB	20080527	US20040916540	20040812
WO0149756 A1	20010712	WO2000FR03712	20001228

Priority:

FR19990016654 19991229 WO2000FR03712 20001228 US20020169331 20021107
US20040916540 20040812

Probable Assignee: CECA SA

Assignee(s): (std): CECA SA ; HURTEVENT CHRISTIAN ; PIRRI ROSANGELA

Assignee(s): CECA S A ; CECA S A PUTEAUX

Inventor(s): (std): PIRRI ROSANGELA ; HURTEVENT CHRISTIAN

Inventor(s): CHRISTIAN HURTEVENT ; ROSANGELA PIRRI

Agent(s): MILLEN WHITE ZELANO AND BRANIGAN PC

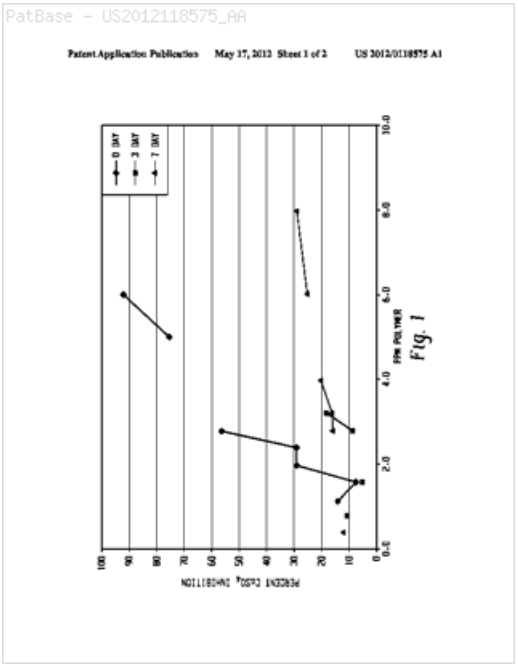
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD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

7) Family number: 51104530 (US2012118575A)

Title: THERMALLY STABLE SCALE INHIBITOR COMPOSITIONS

Abstract: Methods for scale inhibition treatment of oil or gas production wells generally include injecting a scale inhibition composition into the oil or gas production well, wherein the scale inhibition composition comprises one or more polymers, each polymer comprising recurring units of a first monomer and a second monomer, wherein: (i) the first monomer is selected from maleic acid, maleic anhydride, fumaric acid, acrylic acid, salts thereof, or combinations thereof; and (ii) the second monomer is selected from vinyl sulfonic acid, allyl sulfonic acid, methallylsulfonic acid, salts thereof, or combinations thereof; wherein the concentration of the polymers in the composition is about 10 to about 60 percent of the polymers by weight of the composition; and wherein the composition has a pH of about 7 to about 8.5.

Classifications:
International (IPC 8-9): C02F5/10 C09K8/528 E21B43/00 (Advanced/Invention)
CPC: C09K8/528 C02F5/10 C02F2103/10 C02F2209/02 C02F2209/03 C02F2209/06
European: C02F5/10 C09K8/528 M02F103/10 M02F209/02 M02F209/03 M02F209/06
US: 166/310 507/227 507/227S



Family:

Publication number	Publication date	Application number	Application date
AU2011325942 AA	20120518	AU20110325942	20111111
AU2016200974 AA	20160303	AU20160200974	20160216
AU2016200974 BB	20170824	AU20160200974	20160216
AU2017210549 AA	20170824	AU20170210549	20170802
CA2817745 AA	20130510	CA20112817745	20111111
EP2638125 A1	20130918	EP20110791126	20111111
US2012118575 AA	20120517	US20110294887	20111111
WO12065129 A1	20120518	WO2011US60469	20111111

Priority:

US20100412940P 20101112 AU20110325942 20111111 US20110294887 20111111
WO2011US60469 20111111 AU20160200974 20160216 AU20170210549 20170802

Probable Assignee: KEMIRA OYJ

Assignee(s): (std): GRIFFIN JAMES ; KEMIRA OY ; KEMIRA OYJ

Inventor(s): (std): GRIFFIN JAMES

Agent(s): FB RICE; FB RICE PTY LTD; GOWLING LAFLEUR HENDERSON LLP; HALLYBONE HUW GEORGE; SMYTHE NICOLE

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 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

8) Family number: 66086670 (WO17099840A1)

Title: THERMALLY STABLE SCALE INHIBITOR COMPOSITIONS

Abstract: The present invention relates to a thermally stable polymeric scale inhibitor compositions and use thereof. Preferably, the polymeric scale inhibitor is a polycarboxylic acid copolymer comprising acrylic acid, methacrylic acid, and styrene sulfonic acid. The polymeric scale inhibitor compositions of the present invention are particularly suitable for high pressure/high temperature scale inhibition treatment of oil, gas, geothermal production wells and/or subterranean formations.

Classifications:
International (IPC 8-9): C02F5/10 C09K8/528 E21B37/06 (Advanced/Invention)
International (IPC 1-7): E21B37/06
CPC: C09K8/528

Family:

Publication number	Publication date	Application number	Application date
AR104517 AA	20170726	AR2016P101263	20160504
BR112018009893 A2	20181106	BR20181109893	20160509
BR112018009893 A8	20190226	BR20181109893	20160509
CA3007621 AA	20180606	CA20163007621	20160509
CN108291136 A	20180717	CN201680068119	20160509
CO20180006322 A2	20180710	CO20180006322	20180619
EP3387087 A1	20181017	EP20160723620	20160509
ID201900175 A	20190111	ID2018P0004494	20160509
IN201817022759 A	20181026	IN201817022759	20180618
MX2018006213 A1	20180815	MX20180006213	20160509
WO17099840 A1	20170615	WO2016US31403	20160509

Priority:

US20150263893P 20151207 WO2016US31403 20160509

Probable Assignee: DOW GLOBAL TECHNOLOGIES LLC

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Assignee(s): PADILLA ACEVEDO ANGELA I

Inventor(s): (std): PADILLA ACEVEDO ANGELA I ; NGELA I PADILLA ACEVEDO ; ANGELA I PADILLA ACEVEDO

Agent(s): SMART AND BIGGAR; JOSE ANDRES RINCON USCATEGUI; MURGITROYD AND CO; MAROLITA SETIATI; 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

9) Family number: 2928673 (US4885097A)

Title: Stabilization of metal ions with terpolymers containing styrene sulfonic acid

Abstract: Stabilization of metal ions in an aqueous medium is obtained by adding to said aqueous medium 0.5 to 500 ppm of a copolymer containing at least one of each of the following three monomers: (a) acrylic acid, methacrylic acid, and mixtures thereof; (b) acrylamidoalkane sulfonic acids and salts thereof, such as 2-acrylamido-2-methylpropane sulfonic acid; and (c) primary copolymerizable monomers selected from styrene sulfonates.

Classifications:
International (IPC 8-9): C02F5/00 C02F5/08 C02F5/10 C02F5/12 (Advanced/Invention);
C02F5/10 (Core/Invention);
C02F C07C C07D C08F (Subclass/Invention)
International (IPC 1-7): C02F1/56 C02F5/00 C02F5/10 C02F5/12 C07C C07D C08F1/54 C08F20/06 C08F20/56
CPC: C02F5/12 C02F5/125
European: C02F5/12 C02F5/12B
US: 210/701 252/180

Family:

Publication number	Publication date	Application number	Application date

AT93823 E	19930915	AT19870118027T	19871205
AU198782182 A1	19880609	AU19870082182	19871207
AU607171 B2	19910228	AU19870082182	19871207
BRPI8706589 A	19880719	BR1987PI06589	19871207
CA1337323 A1	19951017	CA19870553106	19871130
CN87107274 A	19880817	CN19871007274	19871207
DE3787259 D1	19931007	DE19873787259	19871205
DE3787259 T2	19940120	DE19873787259T	19871205
DK640787 A	19880509	DK19870006407	19871207
DK640787 A0	19871207	DK19870006407	19871207
EP0271035 A2	19880615	EP19870118027	19871205
EP0271035 A3	19900110	EP19870118027	19871205
EP0271035 B1	19930901	EP19870118027	19871205
EP0478018 A1	19920401	EP19910121672	19871205
ES2059349 T3	19941116	ES19870118027T	19871205
JP63156599 A2	19880629	JP19870308844	19871208
KR19880007374 A	19880827	KR19870013956	19871208
MX169161 B	19930623	MX19870009617	19871204
PT86298 A	19880101	PT19870086298	19871204
PT86298 B	19901107	PT19870086298	19871204
US4885097 A	19891205	US19880235268	19880823
US4889637 A	19891226	US19880235269	19880823
US4952326 A	19900828	US19880235266	19880823
US4952327 A	19900828	US19880235270	19880823
ZA8709122 A	19880928	ZA19870009122	19871204

Priority:

US19860938896 19861208 US19860939333 19861208 US19860939498 19861208
CA19870553106 19871130 EP19870118027 19871205 EP19870118027 19871205
EP19870118027 19871205 US19880235268 19880823 US19880235269 19880823
US19880235266 19880823 US19880235270 19880823

Probable Assignee: NOVEON INC

Assignee(s): (std): GOODRICH CO B F ; MASLER WILLIAM F ; AMJAD ZAHID

Assignee(s): B F GOODRICH CO ; B F GOODRICH CO THE ; B F GOODRICH COMPANY THE ; BANKERS TRUST CO ; BF GOODRICH CO ; BF GOODRICH CO 3925 EMBASSY PARKWAY AKRON OH 44313 ; PMD HOLDINGS CORP ; NOVEON IP HOLDINGS CORP ; NOVEON INC ; THE B F GOODRICH CO ; THE B F GOODRICH CO AKRON OHIO US ; GOODRICH B F CO THE ; GOODRICH COMPANY THE B F ; NOVEON IP HOLDINGS CORP WAS KNOWN AS PMD HOLDINGS ; PMD HOLDINGS A OF ILLINOIS CORP ; BF GOODRICH CO THE ; MASLER WILLIAM FRANK III ; GOODRICH BF CO ; THE B F GOODRICH COMPANY

Inventor(s): (std): MASLER III WILLIAM FRANK ; MASLER WILLIAM F ; MASLER WILLIAM FRANK ; MASLER WILLIAM FRANK III ; AMJAD ZAHI ; AMJAD ZAHID ; UIRIAMU FURANKU MASURAA ZA SAA ; WILLIAM FRANK MASLER III ; ZAHID AMJAD ; ZAHIDO AMUJIYADO

Inventor(s): UIRIAMU FURANKU MASURAA ZA SAADO ; WILLIAM FRANK MASLER ; AMJAD ZAHID AVON LAKE OHIO 44012 US ; MASLER WILLIAM FRANK III HINCKLEY OHIO 44233 US

Agent(s): GRIFFITH HACK; OGILVY RENAULT

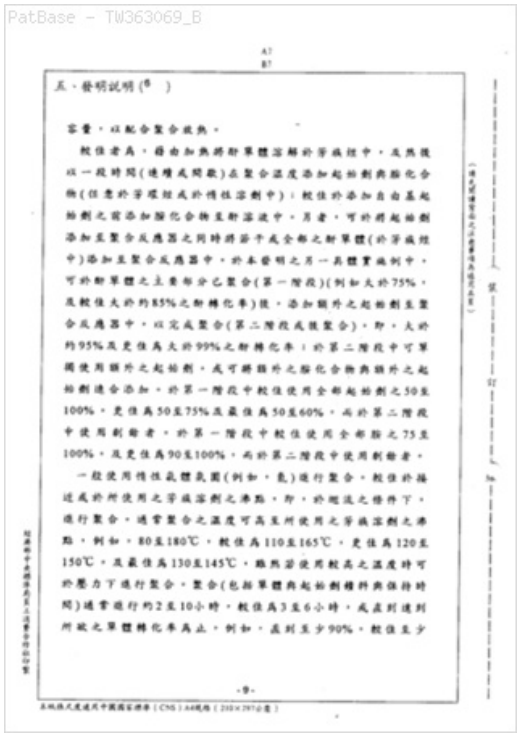
Designated states: AT BE CH DE ES FR GB GR IT LI LU NL SE

10) Family number: 11933778 (US6001940A)

Title: Process for preparing anhydride polymers

Abstract: A process for preparing anhydride polymers in aromatic hydrocarbon solvents using a dialkyl peroxide/amine compound initiator system is disclosed. The amine compound allows more efficient use of free-radical initiators while achieving high monomer conversion polymerizations compared to conventional initiator systems, particularly in the preparation of maleic anhydride polymers.

Classifications:
International (IPC 8-9): C08F2/06 C08F2/44 C08F22/04 C08F22/06 C08F222/06 C08F4/32 C08F4/34 C08G67/04 (Advanced/Invention); C08F2/44 C08F22/06 (Advanced/Non-invention); C08F22/00 (Core/Invention); C08G67/04 (Core/Non-invention)
International (IPC 1-7): C08F2/00 C08F2/06 C08F2/44 C08F22/04 C08F22/06 C08F222/06 C08F4/32 C08F4/34 C08G67/04 C08K5/17
CPC: C08F22/04
European: C08F22/04
US: 526/217 526/227 526/236 526/271



Family:

Publication number	Publication date	Application number	Application date
AT231168 E	20030215	AT19980301904T	19980313
AU199858340 A1	19980924	AU19980058340	19980310
AU741378 B2	20011129	AU19980058340	19980310
BRPI9800869 A	19991214	BR1998PI00869	19980311
CA2231091 AA	19980918	CA19982231091	19980304
CN1158313 C	20040721	CN19981005704	19980317
CN1193630 A	19980923	CN19981005704	19980317
DE69810682 D1	20030220	DE19986010682	19980313
DE69810682 D1	20030220	DE19986010682T	19980313
DE69810682 T2	20031106	DE19986010682T	19980313
EP0866078 A2	19980923	EP19980301904	19980313
EP0866078 A3	19981216	EP19980301904	19980313
EP0866078 B1	20030115	EP19980301904	19980313
ID20067 A	19980924	ID19980000333	19980306
JP10259215 A2	19980929	JP19980082411	19980316
JP4101921 B2	20080618	JP19980082411	19980316
KR100554064 B1	20060522	KR19980009367	19980318
KR19980080434 A	19981125	KR19980009367	19980318
PL325386 A1	19980928	PL19980325386	19980317
TH35016 A	19990921	TH19981000871	19980316
TW363069 B	19990701	TW19980103953	19980317
US6001940 A	19991214	US19980025086	19980217

Priority:

US19970041224 19970318 US19970041224P 19970318 US19980025086 19980217
CA19982231091 19980304

Probable Assignee: ROHM AND HAAS CO

Assignee(s): (std): ROHM AND HAAS

Assignee(s): ROHM AND HAAS CO ; ROHM AND HAAS CO PHILADELPHIA ; ROHM AND HAAS COMPANY ; ROHM AND HAAS COMPANYUS ; WEINSTEIN BARRY ; SHAH SHAILESH SHANTILAL

Inventor(s): (std): SHIYAIRITSUSHIYU SHIYANTEIRARU ; WEINSTEIN BARRY ; SHAH SHAILESH SHANTILAL ; BARLEY VINESTEIN

Inventor(s): BARRY WEINSTEIN ; SHAILESH SHANTILAL SHAH ; SHIYAIRITSUSHIYU SHIYANTEIRARU SHAH

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GOWLING LAFLEUR HENDERSON LLP; SENDA PATENT BUREAU

Designated states: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

11) Family number: 63993782 (US2018072599A)

Title: THERMALLY STABLE SCALE INHIBITOR COMPOSITIONS

Abstract: The present invention relates to a thermally stable polymeric scale inhibitor compositions and use thereof. Preferably,

the polymeric scale inhibitor is a polycarboxylic acid copolymer comprising a styrene sulfonic acid group. The polymeric scale inhibitor compositions of the present invention are particularly suitable for high pressure/high temperature scale inhibition treatment of oil and gas production wells and/or subterranean formations.

Classifications:

International (IPC 8-9): C02F5/10 C08L25/18 C08L33/02 C08L41/00 C09K8/524 C09K8/528 C09K8/592 C23F14/02 E21B37/06 (Advanced/Invention)

CPC: C09K8/524 E21B37/06 C08L41/00 C08L33/02 C08F2500/02 C08L25/18 C02F5/10 C09K8/528 C09K8/592

Family:

Publication number	Publication date	Application number	Application date
AR104516 AA	20170726	AR2016P101262	20160504
BR112017023205 A2	20180807	BR20171123205	20160509
CA2985380 AA	20171107	CA20162985380	20160509
CN107531531 A	20180102	CN201680025705	20160509
CO20170011810 A2	20180209	CO20170011810	20171121
EP3294830 A1	20180321	EP20160723619	20160509
ID201806323 A	20180629	ID2017PID08443	20160509
IN201717041533 A	20180126	IN201717041533	20171120
MX2017013991 A1	20180323	MX20170013991	20160509
RU2017141059 A	20190527	RU20170141059	20160509
US2018072599 AA	20180315	US20160565686	20160509
WO16182980 A1	20161117	WO2016US31402	20160509

Priority:

US20150160686P 20150513 US20160565686 20160509 WO2016US31402 20160509

Probable Assignee: DOW GLOBAL TECHNOLOGIES LLC

Assignee(s): (std): DOW GLOBAL TECH LLC ; DOW GLOBAL TECHNOLOGIES LLC

Assignee(s): PADILLA ACEVEDO ANGELA I ; DAU GLOUBL TEKNOLODZHIZ LLK

Inventor(s): (std): ANGELA I PADILLA ACEVEDO ; NGELA I PADILLA ACEVEDO ; PADILLA ACEVEDO ANGELA I

Inventor(s): PADILYA ASEVEDO ANZHELA I

Agent(s): SMART AND BIGGAR; ANDRES RINCON USCATEGUI; MURGITROYD AND CO; MAROLITA SETIATI; 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