

14-046124

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Search history

Search PN=(US7906463 OR US7727936 OR US2003062162 OR US200406499 OR US3790395 US5026735 OR US6703010 OR US8985902 OR
1: US6210955 OR GB2184468 OR US20020023752 OR US6313368) (Results 9)

Search PN=(US7906463 OR US7727936 OR US2003062162 OR US200406499 OR US3790395 US5026735 OR US6703010 OR US8985902 OR
2: US6210955 OR GB2184468 OR US20020023752 OR US6313368 OR US4615564) (Results 10)

Title: Foam process for recovering underground rock fragments

Abstract: Source: US4615564A The invention is an improvement in borehole mining which overcomes the conventional problem in hydraulic mining of removing rock fragments and ore from beneath the surface by utilizing a foam/air conveyance technique. This eliminates the need for a pump and overcomes the drawback of short pump life that is ordinarily encountered when pumps are engaged in pumping fluid slurries containing a high component of fragmented rock. A foaming agent, such as an organic sulfonic acid surfactant is introduced into the borehole, preferably combined in the water used to dislodge the particles thereby foaming during mining. The foam containing the entrained particles is removed to the surface by a gas, e.g., air under sufficient pressure and rate to maintain the flow from the well bore. The foam is broken at the surface by conventional methods and the mined particles recovered.

Classifications:

International (IPC 8-9): E21B21/14 E21B43/29 E21B43/34

E21C25/60 (Advanced/Invention);

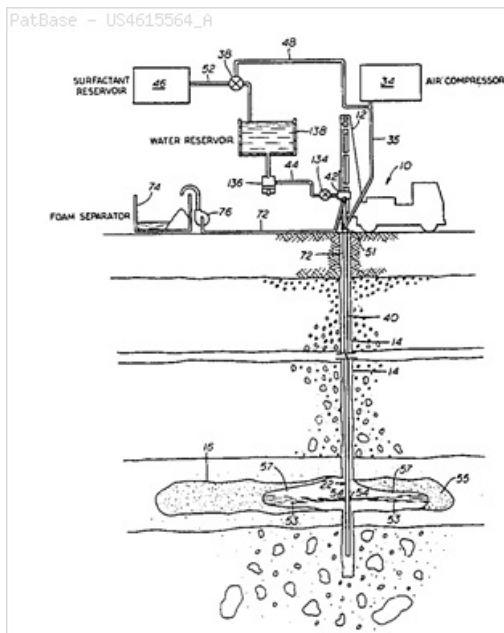
E21B21/00 E21B43/00 E21B43/34 (Core/Invention)

International (IPC 1-7): E21C25/60 E21C37/12

CPC: E21B21/14 E21B43/29 E21B43/34

European: E21B21/14 E21B43/29 E21B43/34

US: 175/71 299/17 299/7



Family:

Publication number	Publication date	Application number	Application date
CA1233841 A1	19880308	CA19850493252	19851018
US4615564 A	19861007	US19850700038	19850211

Priority:

US19850700038 19850211 CA19850493252 19851018

Probable Assignee: HYDROFOAM MINING INC

Assignee(s): (std): HYDROFOAM MINING INC

Assignee(s): GARRETT EMMITT G

Inventor(s): (std): GARRETT EMMITT G

Agent(s): SWABEY MITCHELL HOULE MARCOUX AND SHER

Title: Preventing the inflow of water from water-bearing strata

Abstract: Source: GB2184468A A method and a medium for blocking the inflow of mineralized and/or acid-containing water from water-bearing strata, and in particular from fissured or porous solid rock, into excavations or mine openings, comprises injecting a treating fluid into water-bearing horizons with overlying strata of cohesive material. The injection pressure is at least 0.2 MPa below the frac pressure of the water-bearing horizons or the overlying strata. Gas is injected to foam the treating fluid, this treating fluid consists of a surfactant to which suitable stabilizers are added.

Classifications:

International (IPC 8-9): C09K8/518 E02D3/12 E21B33/138 E21F15/00 (Advanced/Invention); C09K8/50 E02D3/00 E21B33/138 E21F15/00 (Core/Invention)

International (IPC 1-7): B01F17/00 C09K17/00 E02B E02D19/06 E02D19/12 E02D19/16 E02D19/18 E02D3/00 E02D3/12 E02D31/10 E21B33/00 E21B33/138 E21D11/38 E21F16/00 E21F17/00

CPC: C09K8/518 E02D3/12 E21B33/138 E21F15/00

European: C09K8/518 E02D3/12 E21B33/138 E21F15/00

Family:

Publication number	Publication date	Application number	Application date
BE905937 A2	19870416	BE19862061116	19861217
BG48046 A1	19901115	BG19860076047	19860804
CS8605783 A1	19881014	CS19860005783	19860731
DD256429 A3	19880511	DD19850284647	19851218
DE3638246 A1	19870625	DE19863638246	19861110
FR2591657 A1	19870619	FR19860016557	19861127
GB2184468 A1	19870624	GB19860030278	19861218
GB8630278 A0	19870128	GB19860030278	19861218
HU42804 A2	19870828	HU19860004963	19861201
NL8603114 A	19870716	NL19860003114	19861208

Priority:

DD19850284647 19851218

Probable Assignee: FREIBERG BRENNSTOFFINST

Assignee(s): (std): FREIBERG BRENNSTOFFINST ; PARIZEK BEDRICH ; KROLL FRITZ DIPL ING ; SVOBODA BOHUMIR ; TERZIJSKI IVAILE DIPL ING ; HEILMANN MANFRED ; KAULBARS ERNST ; STERBA KURT ; VYZK USTAV GEOL INZENYRSTVI BR ; VYZK USTAV GEOL INZENYRSTVI ; URANOVE DOLY HAMR KONCERNOVY P ; VYZK USTAV GEOLOG INZENYR ; URANOVE DOLY K P HAMR ; TRSEK MIROSLAV ; TOMISKA JOSEF ; CECJ JAN

Assignee(s): CECJ JAN DIPL ING CS ; VYZKUMNY USTAV GEOLOGICKEHO INZENYRSTVI CS ; URANOVE DOLY K P HAMR CS ; URANOVE DOLY HAMR KONCERNOVY PODNIK ; VYZKUMNY USTAV GEOLOGICKEHO INZENYRSTVI BRNO VUGI ; TOMISKA JOSEF DIPL ING CS ; TRSEK MIROSLAV DIPL ING CS ; VYZKUMNY USTAV GEOLOGICKEHO INZENYRSTVI ; HEILMANN MANFRED DR DD ; KAULBARS ERNST DIPL ING DD ; TERZIJSKI IVAILE DIPL ING CS ; SVOBODA BOHUMIR DIPL ING CS ; KROLL FRITZ DIPL ING DD ; STERBA KURT DIPL JUR DD ; BEDRICH PARIZEK DIPL ING CS ; BRENNSTOFFINSTITUT FREIBERG ; BRENNSTOFFINSTITUT FREIBERG DD ; BRENNSTOFFINSTITUT FREIBERG TE FREIBERG DUTSE DEMOCRATISCHE REPUBLIEK VYZKUMNY USTAV GEOLOGICKEHO INZENYRSTVI TE BRNO EN URANOVE DOLY HAMR K P TE STRAZ TSJECHOSLOWAKIJE ; BRENNSTOFFINSTITUT FREIBRG DD

Inventor(s): (std): BEDRICH PARIZEK DIPL ING ; CECJ JAN ; CECJ JAN DIPL ING ; HEILMANN MANFRED DR ; HEILMANN DR MANFRED ; HEILMANN MANFRED ; KAULBARS ERNST ; KAULBARS ERNST DIPL ING ; KROLL FRITZ DIPL ING ; KROLL FRITZ ; LEEFFLER EBERHARD ; LOEFFLER EBERHARD DIPL ING ; LOFFLER EBERHARD ; LOEFFLER EBERHARD ; PARIZEK BEDRICH ; PARIZEK BEDRICH DIPL ING ; RERZIJSKI IVAILO ; STERBA KURT ; STERBA KURT DIPL JUR ; SVOBODA BOHUMIR ; SVOBODA BOHUMIR DIPL ING ; SVOBODA BUHUMIR ; TERZIJSKI IVAILE DIPL ING ; TERZIJSKI IVAILO ; TERZIJSKI IVAILO DIPL ING ; TERZIJSKI TVAILE ; TOMISKA JOSEF ; TOMISKA JOSEF DIPL ING ; TRSEK MIROSLAV ; TRSEK MIROSLAV DIPL ING

Inventor(s): TRSEK MIROSLAV DIPL ING CS ; TRSEK MIROSLAV CS ; TOMISKA JOSEF DIPL ING CS ; TOMISKA JOSEF CS ; TERZIJSKI IVAILO CS ; TERZIJSKI IVAILE DIPL ING CS ; SVOBODA BUHUMIR CS ; SVOBODA BOHUMIR DIPL ING CS ; SVOBODA BOHUMIR CS ; STERBA KURT DIPL JUR DD ; STERBA KURT DD ; PARIZEK BEDRICH CS ; LOEFFLER EBERHARD DD ; MANFRED HEILMANN ERNST KAULBARS EBERHARD LOFFLER K ; MANFRED HEILMANN ERNST KAULBARS EBERHARD LOFFLER KURT STERBA FRITZ KROLL JOSEF TOMISKA BOHUMIR SVOBODA MIROSLAV TRSEK BEDRICH PARIZEK IVAILO RERZIJSKI ET JAN CECJ ; MIROSLAV TRSEK ; LEEFFLER EBERHARD DD ; KROLL FRITZ DD ; KROLL FRITZ DIPL ING DD ; KURT STERBA ; KAULBARS ERNST DIPL ING DD ; KAULBARS ERNST DIPL ING OEC ; KAULBARS ERNST DD ; HEILMANN MANFRED DD ; HEILMANN MANFRED DIPL GEOL DR ; HEILMANN MANFRED DR DD ; IVAILO TERZIJSKI ; JAN CECJ ; JOSEF TOMISKA ; CECJ JAN DIPL ING CS ; DR MANFRED HEILMANN ; EBERHARD LOFFLER ; ERNST KAULBARS ; FRITZ KROLL ; CECJ JAN CS ; BEDRICH PARIZEK ; BEDRICH PARIZEK DIPL ING CS ; BOHUMIR SVOBODA

Title: METHOD AND COMPOSITIONS FOR STABILIZATION OF HEAVY METALS, ACID GAS REMOVAL AND PH CONTROL IN CONTAMINATED MATRICES

Abstract: Source: US5719099A A one-step method and compositions for stabilization of heavy metals, acid gas removal and pH control in hazardous and toxic solid, semi-solid, liquid and/or gaseous matrices using a mixture of reactive agents in a single product, for the broader purpose of enhancing environmental pollution control, prevention and remediation are described. The product contains sulfonated calcium aluminum magnesium phosphate. This material may be used alone or in combination with magnesium sulfite and/or hydroboracite.

Classifications:

International (IPC 8-9): A62D3/00 A62D3/30 A62D3/33 A62D3/36 B01J20/04 B09B3/00 B09C1/08 (Advanced/Invention); A62D101/08 A62D101/24 A62D101/40 A62D101/43 (Advanced/Non-invention)

International (IPC 1-7): A62D3/00 B01D53/34 B01J20/00 B01J20/04 B09B3/00 C01B17/00 C01B21/00 C01B7/00 C02F1/00 C03C3/17

CPC: Y10S502/521 Y10S588/901 A62D2101/40 A62D3/33 A62D2101/08 A62D2101/24 A62D2101/43 B09B3/00 B09C1/08 B01J20/0248 B01J20/043 B01J20/045 B01J20/048 B01J2220/42 B01J20/12

European: A62D3/00E4 A62D3/00K4 A62D3/00M10D A62D3/00M12 A62D3/00M12D A62D3/00M8 A62D3/33 B01J20/04 B09B3/00 B09C1/08 K62D101/08 K62D101/24 K62D101/40 K62D101/43

US: 210/749 423/210 423/239.1 423/240S 423/242.1 501/48 502/3 502/400 502/414 502/415 502/521 588/231 588/236 588/249 588/252 588/256 588/313 588/318 588/404 588/407 588/412 588/901

Family:

Publication number	Publication date	Application number	Application date
US5719099 A	19980217	US19970790700	19970129
US5985778 A	19991116	US19970961823	19971031
US6191068 BA	20010220	US19990244996	19990204
US6313368 BA	20011106	US19990404531	19990924
US6388165 BA	20020514	US20000492795	20000128

Priority:

US19960028935P 19961022 US19970790700 19970129 US20000492795 20000128
US19990244996 19990204 US19990404531 19990924 US19970961823 19971031

Probable Assignee: BHAT DR VASANTH K

Assignee(s): (std): BHAT IND INC ; BHAT VASANTH K

Assignee(s): BHAT INDUSTRIES INC ; AMTIPS INC ; BHAT DR VA NTH K SA ; BHAT DR VASANTH K ; BHAT GEETHA ; BHAT IND

Inventor(s): (std): BHAT VASANTH K

Title: COMPOSITIONS CONTAINING AQUEOUS VISCOSIFYING SURFACTANTS AND METHODS FOR APPLYING SUCH COMPOSITIONS IN SUBTERRANEAN FORMATIONS

Abstract: Source: US2002023752A The improved recovery of hydrocarbons from subterranean formations by hydraulically fracturing a subterranean formation is accomplished. Fracturing fluids using a viscosifying surfactant fluid containing viscosifying micelles, for example, wormlike micelles, are useful to improve recovery of hydrocarbons and limit the loss of fracturing fluid into the formation fracture face. The invention further relates to novel fracturing and acidizing methods useful for increasing hydrocarbon production, limiting water production, resisting fracturing fluid loss into the subterranean formation, and reducing the equipment requirements in mixing and pumping fracturing fluid. The action of viscosifying micelles of surfactant in aqueous zones of the subterranean formation diverts fracturing fluid or acid from the aqueous zones to the hydrocarbon-bearing zones and also facilitates the flowback of increased amounts of hydrocarbons once a fractured well is placed back on production. These methods selectively block the pore structure in a water-bearing zone and do not blocking the pore structure of a hydrocarbon zone at the formation face. The step for selectively blocking forms a plug of a viscous fluid containing viscosifying micelles in the pore structure of the water-bearing zone at the formation face.

Classifications:

International (IPC 8-9): C09K8/62 C09K8/68 C09K8/74 E21B43/22 E21B43/26 (Advanced/Invention); C09K8/60 E21B43/25 (Core/Invention)

International (IPC 1-7): C09K3/00 C09K7/04 E21B33/00 E21B43/16 E21B43/17 E21B43/22 E21B43/26 E21B43/27 E21B43/32

CPC: Y10S507/922 Y10S507/923 Y10S507/933 C09K8/68 C09K8/74 C09K2208/30 E21B43/26

European: C09K8/62 C09K8/68 C09K8/74 E21B43/26 M09K208/30

US: 166/177.5 166/177.500S 166/279 166/281 166/282 166/282S

166/283 166/285 166/294 166/300 166/300S 166/304 166/304S

166/307 166/307S 166/308 166/308.1 166/308.100P 166/308.2

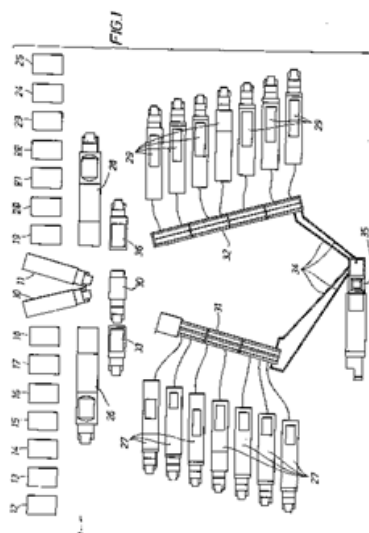
166/308.200P 166/308.200S 166/309 166/381 507/129 507/131

507/131S 507/203 507/239 507/24 507/240 507/240S 507/277

507/277S 507/422 507/922 507/923 507/933

PatBase - US2002023752_AA

Patent Application Publication Feb. 28, 2002 Sheet 1 of 21 US 2002/0023752 A1



Family:

Publication number	Publication date	Application number	Application date
AR011245 AA	20000816	AR1997P104636	19971007
CA2217659 AA	19980409	CA19972217659	19971007
CA2217659 C	20010529	CA19972217659	19971007
DE69726815 D1	20040129	DE19976026815	19970929
DE69726815 T2	20041202	DE19976026815T	19970929
DK0835983 T3	20040419	DK19970402258T	19970929
DZ2325 A1	20040515	DZ19970000175	19971008
EP0835983 A2	19980415	EP19970402258	19970929
EP0835983 A3	19990324	EP19970402258	19970929
EP0835983 B1	20031217	EP19970402258	19970929
NO326817 B1	20090223	NO19970004645	19971008
NO974645 A	19980414	NO19970004645	19971008
NO974645 A0	19971008	NO19970004645	19971008
US2002023752 AA	20020228	US19990256980	19990223
US2002185278 AA	20021212	US20020139886	20020506
US2003019627 AA	20030130	US20020051842	20020117
US5964295 A	19991012	US19960727877	19961009
US5979557 A	19991109	US19970865137	19970529
US6306800 BA	20011023	US19980166658	19981005
US6412561 BA	20020702	US19980219948	19981223
US6435277 BA	20020820	US19990256980	19990223
US6637517 BB	20031028	US20020051842	20020117

Priority:

CA19972217659 19971007	US19960727877 19961009	US19970865137 19970529
US19980166658 19981005	US19980219948 19981223	US20020139886 20020506
US20020051842 20020117	US19990256980 19990223	

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): (std): QU QI ; SCHLUMBERGER CIE DOWELL ; SCHLUMBERGER TECHNOLOGY CORP D ; VINOD PALATHINKARA S ; THOMAS RONNIE L ; SCHLUMBERGER CA LTD ; SCHLUMBERGER CANADA LTD ; SOFITECH N V ; SCHLUMBERGER TECHNOLOGY BV ; SOFITECH NV ; SAMUEL MATHEW M ; WILLBERG DEAN M ; SCHLUMBERGER TECHNOLOGY CORP ; DOWELL SCHLUMBERGER SERVICES

Assignee(s): LEE JESSE C ; NELSON ERIK B ; SOFITECH N V BRUSSLER BRUXELLES ; SCHLUMBERGER TECHNOLOGY

DOWELL DIVISION CORP ; SCHLUMBERGER TECHNOLOGY DOWELL DIVISIO CORP ; BROWN J ERNEST ; CARD ROGER J ; CHANG FRANK F ; DES SERVICES DOWELL SCHLUMBERGER COMP SA ; DES SERVICES DOWELL SCHLUMBERGER S A COMP ; DES SERVICES DOWELL SCHLUMBERGER S A MONTRouGE COMP

Inventor(s): (std): BROWN ERNEST J ; BROWN J ; BROWN J ERNEST ; CARD ROGER J ; CARD ROGER JOHN ; CHANG FRANK F ; DISMUKE KEITH I ; ENGLAND KEVIN W ; LEE JESSE C ; LEE JR JESSE C ; NELSON ERICK B ; NELSON ERIK B ; NELSON ERIK BENTLEY ; QU QI ; SAMUEL MATHEW M ; THOMAS RONNIE L ; VINOD PALATHINKARA S ; WILLBERG DEAN M

Agent(s): SMART AND BIGGAR

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

Title: Spray containing amphoteric material to reduce malodors

Abstract: Source: US6703010B Powder compositions usable to reduce malodours, and powder formulations from which can be made aqueous spray compositions usable to reduce malodours, each comprise, as a major ingredient, amphoteric material, for example sodium bicarbonate, potassium bicarbonate, or zinc oxide, together with one or more minor ingredients, in particular a drying agent, for example sodium sulphate. Other minor ingredients may be an ammonia-odour/sulphide-odour remover, for example ferrous sulphate or zinc sulphate, and an adsorbent, for example zeolite, in the case of a powder formulation; or a filler, for example potassium chloride, or an organic complexing agent, for example cyclodextrin, or a surfactant, in the case of a stock formulation.

Classifications:

International (IPC 8-9): A01K1/015 A61L9/01 A61L9/04 A61L9/14 (Advanced/Invention);

A01K1/015 A61L9/01 A61L9/04 A61L9/14 (Core/Invention)

International (IPC 1-7): A01K1/015 A61K7/035 A61L9/01 A61L9/04 A61L9/14

CPC: A01K1/0152 A61L9/014 A61L9/145 A61L2209/22

European: A01K1/015B A61L9/014 A61L9/14L K61L209/220

US: 424/43 424/45 424/46 424/69 424/76.1 424/76.2 424/761 424/762

Family:

Publication number	Publication date	Application number	Application date
AT341346 E	20061015	AT19990954282T	19991115
AU200010691 A1	20000605	AU20000010691	19991115
AU200010691 A5	20000605	AU20000010691	19991115
CA2351625 AA	20010514	CA19992351625	19991115
DE69933463 D1	20061116	DE19996033463	19991115
DE69933463 T2	20070816	DE19996033463T	19991115
EP1128852 A1	20010905	EP19990954282	19991115
EP1128852 B1	20061004	EP19990954282	19991115
GB9824922 A0	19990106	GB19980024922	19981114
GB9824924 A0	19990106	GB19980024924	19981114
GB9916503 A0	19990915	GB19990016503	19990715
GB9916506 A0	19990915	GB19990016506	19990715
GB9921747 A0	19991117	GB19990021747	19990915
NO20012373 A	20010713	NO20010002373	20010514
NO20012373 A0	20010514	NO20010002373	20010514
NO322798 B1	20061211	NO20010002373	20010514
US6703010 BA	20040309	US20010831936	20010514
WO0029039 A1	20000525	WO1999IB01835	19991115

Priority:

GB19980024922 19981114 GB19980024924 19981114 GB19990016503 19990715
GB19990016506 19990715 GB19990021747 19990915 WO1999IB01835 19991115

Probable Assignee: SANODOR AS

Assignee(s): (std): ARCHER FRED ; FRISMARK JAN ; KVERNHEIM ARNE LUND ; SAASTAD OLE WIDAR ; SANODOR A S ; THOMASSON RONNIE ; ULRICHSEN BOERRE BENGT ; ULRICHSEN BORRE BENGT ; SANODOR AS

Assignee(s): NODOR AS ETTERSTAD PO BOX SA

Inventor(s): (std): ARCHER FRED ; KVERNHEIM ARNE LUND ; KVERNHEIM LUND ; SAASTAD OLE WIDAR ; SAASTAD WIDAR ; THOMASSON RONNIE ; ULRICHSEN B RRE BENGT ; ULRICHSEN BAERRE BENGT ; ULRICHSEN BENGT ; ULRICHSEN BOERRE BENGT ; ULRICHSEN BORRE BENGT ; FRISMARK JAN

Inventor(s): JAN FRISMARK ; OLE WIDAR SAASTAD ; RONNIE THOMASSON ; ARNE LUND KVERNHEIM ; BAERRE BENGT ULRICHSEN ; FRED ARCHER

Agent(s): LESICAR PERRIN; LESICAR MURRAY TRENT0; LESICAR MAYNARD ANDREWS PTY LTD; CAMERON NORMAN M

Designated states: AT AU BE CA CH CY DE DK ES FI FR GB GR IE IT JP LI LU MC NL NO PT SE US

Title: Foam transport process for in-situ remediation of contaminated soils

Abstract: Source: US6210955B A process for in-situ remediation of contaminated soil in which at least one treating agent is introduced into the contaminated soil and transported to an underground in-situ treatment zone of the contaminated soil by a foam-based fluid.

Classifications:

International (IPC 8-9): B09C1/00 B09C1/10 E21B43/25

E21B43/40 (Advanced/Invention);

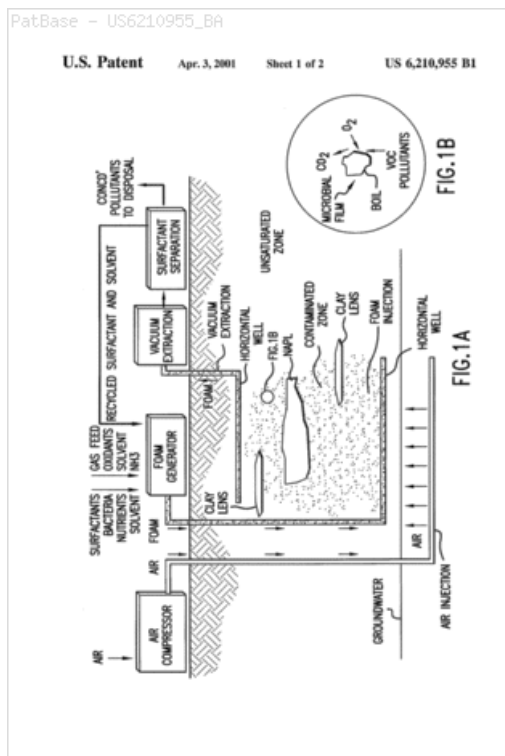
B09C1/00 B09C1/10 E21B43/25 E21B43/34 (Core/Invention)

International (IPC 1-7): B09B3/00

CPC: B09C1/00 B09C1/10 B09C2101/00 E21B43/25 E21B43/40

European: B09C1/00 B09C1/10 E21B43/25 E21B43/40 L09C101/00

US: 252/351 252/61 405/128.25 405/128.5 435/262.5 516/18



Family:

Publication number	Publication date	Application number	Application date
US6210955 BA	20010403	US19940318462	19941005

Priority:

US19940318462 19941005

Probable Assignee: GAS TECHNOLOGY INST

Assignee(s): (std): GAS RES INST

Assignee(s): GAS RESEARCH INST ; GAS RESEARCH INSTITUTE ; GAS TECHNOLOGY INST

Inventor(s): (std): HAYES THOMAS D

Title: Method and apparatus for acidizing a subterranean well formation for improving hydrocarbon production

Abstract: Source: US2003062162A A method and apparatus for treating a subterranean well formation to stimulate the production of hydrocarbons utilizing foam diversion in the well formation. It is emphasized that this abstract is provided to comply with the rules requiring an abstract that will allow a searcher or other reader to quickly ascertain the subject matter of the technical disclosure; and is submitted with the understanding that it will not be used to interpret or limit the scope or meaning of the claims under 37CFR 1.72.

Classifications:

International (IPC 8-9): B05B7/00 C09K8/70 C09K8/74 C09K8/94 E21B17/02 E21B41/00 E21B43/114 E21B43/16 E21B43/22 E21B43/25 E21B43/26 E21B43/267 E21B43/27 (Advanced/Invention); B05B7/00 C09K8/60 E21B17/02 E21B41/00 E21B43/11 E21B43/16 E21B43/25 (Core/Invention)

International (IPC 1-7): B05B7/00 C07C1/00 E21B E21B17/20 E21B21/00 E21B43/00 E21B43/11 E21B43/112 E21B43/114 E21B43/16 E21B43/22 E21B43/25 E21B43/26 E21B43/267 E21B43/27 E21B7/08 E21B7/18 E21B7/8

CPC: E21B43/26 E21B43/267 C09K8/74 E21B17/02 E21B41/0078 E21B43/114 E21B43/25

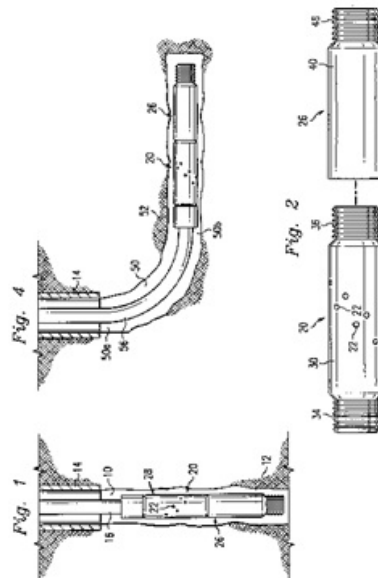
European: C09K8/74 E21B17/02 E21B41/00P E21B43/114 E21B43/25 E21B43/26 E21B43/267

US: 166/222 166/242.2 166/300 166/303 166/307 166/308 166/308.1 166/308.6 166/309 166/381 166/63 175/424 175/67 175/73

Locarno class: 16/63

PatBase - US2003062162_AA

Patent Application Publication Apr. 3, 2003 Sheet 1 of 2 US 2003/062162 A1



Family:

Publication number	Publication date	Application number	Application date
AU2002300782 AA	20030612	AU20020300782	20020827
AU2002300782 BB	20070118	AU20020300782	20020827
AU2002300842 AA	20030612	AU20020300842	20020902
AU2002300842 BB	20080214	AU20020300842	20020902
BRPI0203938 A	20030916	BR2002PI03938	20020926
BRPI0203938 B1	20121127	BR2002PI03938	20020926
BRPI0203939 A	20030513	BR2002PI03939	20020926
BRPI0203939 B1	20121127	BR2002PI03939	20020926
CA2405608 AA	20030328	CA20022405608	20020927
CA2405608 C	20090310	CA20022405608	20020927
CA2405631 AA	20030328	CA20022405631	20020927
CA2405631 C	20110802	CA20022405631	20020927
CA2466139 AA	20041106	CA20042466139	20040503
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CN1327107 C	20070718	CN20021043248	20020924
CN1408986 A	20030409	CN20021043248	20020924
CN1425847 A	20030625	CN20021043249	20020924
DE60226678 D1	20080703	DE20026026678	20020905
DE60236130 D1	20100610	DE20026036130	20020909
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EP1298280 B1	20080521	EP20020256175	20020905
EP1298282 A2	20030402	EP20020256223	20020909
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US2003062162 AA	20030403	US20010966630	20010928

US2003062167 AA	20030403	US20010966128	20010928
US2003234106 AA	20031225	US20030430763	20030506
US2004089452 AA	20040513	US20030607348	20030626
US6662874 BB	20031216	US20010966128	20010928
US6725933 BB	20040427	US20010966630	20010928
US6779607 BB	20040824	US20030607348	20030626
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Priority:

CA20022405608 20020927 CA20022405631 20020927 CA20042466139 20040503
US20010966128 20010928 US20030607348 20030626 US20010966630 20010928
US20030430763 20030506

Probable Assignee: HALLIBURTON ENERGY SERVICES INC

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HALLIBURTON ENERGY SERV INC

Assignee(s): HALLIBURTON ENERGY SERVICES ; CHENG ALICK ; RISPLER KEITH

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SUYAAMAZA ; JIM B SUYAAMACHA ; ALIC CHEN

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SENCRL SRL LLP; WAIN CHRISTOPHER PAUL ET AL; TURNER CRAIG ROBERT; HAYNES AND BOONE LLP;
WUSTENBERG JOHN W; JOHN W

Designated states: DK AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

Title: BRINE-BASED VISCOSIFIED TREATMENT FLUIDS AND ASSOCIATED METHODS

Abstract: Source: US2006014648A The present invention relates to viscosified treatment fluids used in industrial and oil field operations, and more particularly, to brine-based viscosified treatment fluids comprising xanthan gelling agents, and their use in industrial and oil field operations. In one embodiment, the present invention provides a method of treating a portion of a subterranean formation comprising the steps of: providing a viscosified treatment fluid that comprises a brine and a gelling agent that comprises a clarified xanthan; and treating the portion of the subterranean formation. The present invention also provides methods of fracturing, gravel packing, and making viscosified treatments fluids. Also provided are viscosified treatment fluid compositions, and gelling agent compositions.

Classifications:

International (IPC 8-9): C09K8/00 C09K8/04 C09K8/08 C09K8/40 C09K8/52 C09K8/56 C09K8/58 C09K8/60 C09K8/66 C09K8/68 C09K8/72 C09K8/74 C09K8/90 E21B43/04 E21B43/16 E21B43/25 E21B43/26 E21B43/267 E21B43/27 E21B43/28 (Advanced/Invention); E21B37/06 E21B43/00 (Advanced/Non-invention); C09K8/00 C09K8/02 C09K8/40 C09K8/52 C09K8/56 C09K8/58 C09K8/60 E21B43/02 E21B43/25 (Core/Invention); E21B37/00 E21B43/00 (Core/Non-invention); E21B (Subclass/Invention)

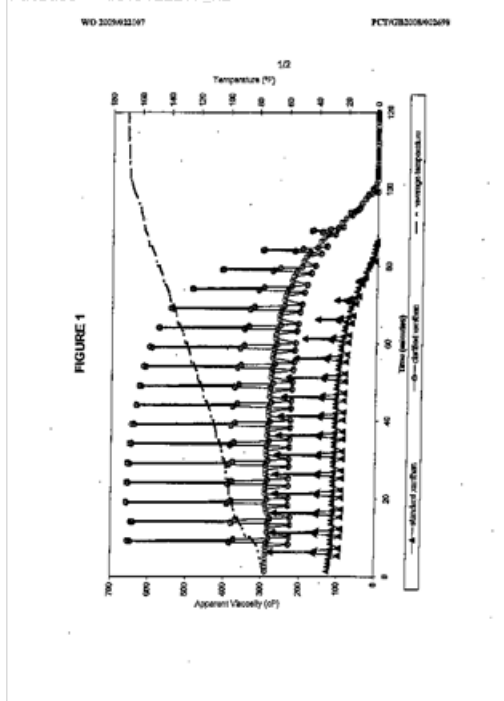
International (IPC 1-7): E21B

CPC: C09K8/74 C09K8/76 C23F11/04 C23F11/10 C23F11/173 C09K8/08 C09K8/40 C09K8/52 C09K8/68 C09K8/685 C09K8/70 C09K8/90 C09K8/528 C09K8/887

European: C09K8/08 C09K8/40 C09K8/52 C09K8/528 C09K8/68 C09K8/68B C09K8/70 C09K8/74 C09K8/76 C09K8/88C C09K8/90 C23F11/04 C23F11/10 C23F11/173

US: 166/305.1 166/307 166/308.1 166/308.2 507/209 507/211 507/213 507/213P 507/90

PatBase - W009022107_A1

**Family:**

Publication number	Publication date	Application number	Application date
AU2008288334 AA	20090219	AU20080288334	20080808
AU2008288334 BB	20130704	AU20080288334	20080808
BRPI0814466 A2	20150120	BR2008PI14466	20080808
CA2694151 AA	20100121	CA20082694151	20080808
CA2694151 C	20130730	CA20082694151	20080808
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MX2010001625 A1	20100315	MX20100001625	20080808
MY150016 A	20131115	MY20100000625	20080808
NO20053403 A	20060116	NO20050003403	20050713
NO20053403 A0	20050713	NO20050003403	20050713
NO20075525 A	20080129	NO20070005525	20071101
NZ583208 A	20120629	NZ20080583208	20080808
US2006014648 AA	20060119	US20040889860	20040713
US2006243449 AA	20061102	US20050118028	20050429
US2006247135 AA	20061102	US20050117959	20050429
US2007281868 AA	20071206	US20070891542	20070810
US2008039347 AA	20080214	US20070891511	20070810
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US7547665 BB	20090616	US20050117959	20050429
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US7727937 BB	20100601	US20070891542	20070810
US7825073 BB	20101102	US20070891511	20070810
WO06117517 A2	20061109	WO2006GB01531	20060426
WO06117517 A3	20061221	WO2006GB01531	20060426
WO09022106 A1	20090219	WO2008GB02697	20080808
WO09022107 A1	20090219	WO2008GB02698	20080808

Priority:

EP20060726916	20060426	US20040889860	20040713	US20050117959	20050429
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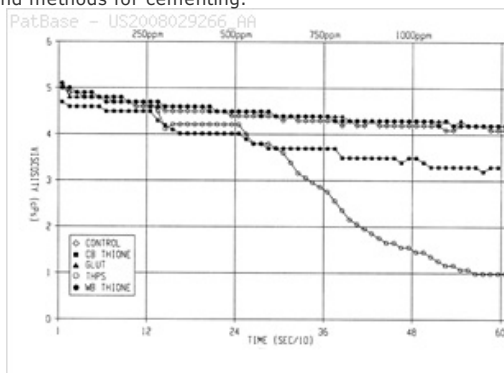
Probable Assignee: HALLIBURTON ENERGY SERVICES INC**Assignee(s):** (std): BEACH SEAN R ; BRYANT JASON E ; BURNS BOBBY J ; CURTIS PHILIP ANTHONY ; HALLIBURRON ENERGY SERVICES IN ; HALLIBURTON ENERGY SERV INC ; MILSON SHANE L ; MCMECHAN DAVID E ; MUNOZ TRINIDAD ; HARRIS PHILLIP C ; MUNDY JEFFERY L ; HEATH STANLEY J ; MUNDY JEFFERY L ; MCMECHAN DAVID EUGENE ; PAULS RICHARD ; WELTON THOMAS D ; ROBB IAN D ; PAULS RICHARD W ; SAINI RAJESH K ; SANDERS MICHAEL W ; PARKINSON CHRISTINA A ; WALTERS HAROLD G ; SANDRES MICHAEL W ; MUNOZ TRINIDAD JR**Assignee(s):** HALLIBURTON ENERGY SERVICE INC ; HALLIBURTON ENERGY SERVICES INC ; HALLIBURRON ENERGY SERVICES INC**Inventor(s):** (std): ANTHONY CURTIS PHILIP ; BEACH SEAN R ; BURNS BOBBY J ; BRYANT JASON E ; EUGENE MCMECHAN DAVID ; HEATH STANLEY J ; MCMECHAN DAVID E ; MCMECHAN DAVID EUGENE ; HARRIS PHILLIP C ; MILSON SHANE L ; PARKINSON CHRISTINA A ; PAULS RICHARD ; PAULS RICHARD W ; MUNDY JEFFERY L ; MUNDY JEFFERY L ; MUNOZ JR TRINIDAD ; MUNOZ TRINIDAD ; MUNOZ TRINIDAD JR ; ROBB IAN D ; SAINI RAJESH K ; SANDERS MICHAEL W ; SANDRES MICHAEL W ; TRINIDAD MUNOZ JR ; WALTERS HAROLD G ; WELTON THOMAS D**Inventor(s):** WELTON THOMAS D DUNCAN ; WELTON THOMAS ; WALTERS HAROLD ; SEAN R BEACH ; STANLEY J HEATH ; THOMAS D WELTON ; TRINIDAD JR MUNOZ ; SANDERS MICHAEL ; SAINI RAJESH ; PARKINSON CHRISTINA ; PAULS RICHARD W DUNCAN ; PHILLIP C HARRIS ; RAJESH K SAINI ; RICHARD W PAULS ; ROBB IAN ; MUNDY JEFFERY ; HEATH STANLEY ; MICHAEL W SANDRES ; MILSON SHANE ; JASON E BRYANT ; JEFFREY L MUNDY ; MCMECHAN DAVID ; HAROLD G WALTERS ; HARRIS PHILLIP ; BURNS BOBBY ; CHRISTINA A PARKINSON ; CURTIS PHILIP ANTHONY ; DAVID EUGENE MCMECHAN ; BOBBY J BURNS ; BRYANT JASON ; BEACH SEAN**Agent(s):** CALLINANS; FISHER ADAMS KELLY CALLINANS; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; CURTIS PHILIP ANTHONY ET AL; CURTIS PHILIP ANTHONY; ROBERT A KENT HALLIBURTON ENERGY SERVICES; ROBERT A KENT; BAKER BOTTS LLP; KENT ROBERT A; ROBERT A; MCDERMOTT WILL AND EMERY LLP**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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: BIOCIDES FOR WELL STIMULATION AND TREATMENT FLUIDS

Abstract: Source: US2008029266A A well stimulation and or treatment fluid that includes water, other additives, and a biocide consisting of 2,5 -dimethyl- 1,3,5 -thiadiazinane- 2 -thione in an amount effective to inhibit bacterial growth and minimize antagonistic reactions between the biocide and other additives. Also disclosed are well injection compositions, stimulations, squeezing, waterflood, packing, cement compositions, and methods for cementing.

Classifications:

International (IPC 8-9): C04B24/00 C04B24/16 C04B28/02 C09K8/42 C09K8/46 C09K8/467 C09K8/528 C09K8/58 C09K8/584 C09K8/588 C09K8/60 C09K8/68 C09K8/88 E21B33/00 E21B33/13 E21B43/00 E21B43/20 E21B43/22 (Advanced/Invention); A01N43/88 A01P1/00 (Advanced/Non-invention); C04B24/00 C09K8/42 C09K8/58 C09K8/60 E21B33/00 E21B33/13 E21B43/00 E21B43/16 (Core/Invention); A01N43/72 A01P1/00 (Core/Non-invention)
CPC: Y10S507/92 C09K8/467 C04B28/02 C04B2103/67 C09K8/428 C09K8/58 C09K8/605 C09K8/68 C09K8/88
European: C04B28/02 C09K8/42S C09K8/467 C09K8/58 C09K8/60H C09K8/68 C09K8/88 M04B103/67
US: 106/18.33 106/18.330S 166/266 166/285 166/285S 507/201 507/209 507/211 507/211P 507/213 507/221 507/224 507/252 507/256 507/256S 507/920

**Family:**

Publication number	Publication date	Application number	Application date
CA2659383 AA	20090129	CA20072659383	20070802
CA2659383 C	20160119	CA20072659383	20070802
DE602007023991 D1	20120906	DE200760023991T	20070802
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EP2078066 B1	20120711	EP20070836429	20070802
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MX2009001261 A1	20090710	MX20090001261	20070802
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RU2009107213 A	20100910	RU20090107213	20070802
RU2013126808 A	20141220	RU20130126808	20130611
RU2494135 C2	20130927	RU20090107213	20070802
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WO08016662 A2	20080207	WO2007US17225	20070802
WO08016662 A3	20080313	WO2007US17225	20070802
WO08016662 B1	20080508	WO2007US17225	20070802

Priority:

EP20070836429 20070802 US20060497724 20060802 US20070779509 20070718
WO2007US17225 20070802 US20100777459 20100511 US20060779509 20060802

Probable Assignee: KEMIRA CHEMICALS INC

Assignee(s): (std): KEMIRA CHEMICALS INC ; MONTEITH GEOFFREY ALLEN ; STARKEY RONALD JOE ; KEMIRA OYJ ; KEMIRA KEMIKALS INK ; AFTEN CARL WILHELM

Assignee(s): KCALS INC ; KEMIRA CHEMICALS INC KENNESAW

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

Title: SYSTEM AND METHOD FOR TREATING AN EXCAVATION ACTIVITY

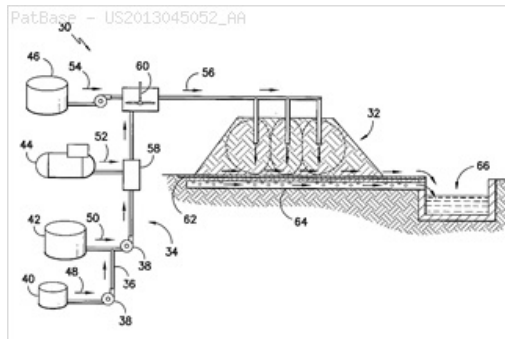
Abstract: Source: US2013045052A A system for treating an excavation activity includes a distribution network in fluid communication with the excavation activity. A foaming agent and a reagent are supplied to the distribution network to form a reagent-foam mixture. The reagent is selected to react with at least one of sulfides, bacteria, or heavy metals or to coat particulate materials. A method for treating an excavation activity includes flowing a foam through a distribution network in fluid communication with the excavation activity and selecting a reagent to react with at least one of sulfides, bacteria, or heavy metals or to coat particulate materials. The method fluffier includes mixing the reagent with the foam flowing through the distribution network to form a reagent-foam mixture and dispersing the foam-reagent mixture over at least a portion of the excavation deposit.

Classifications:

International (IPC 8-9): B09B3/00 B09C1/00 B09C1/02 B09C1/08 B09C1/10 C09K8/00 C09K8/60 C09K8/94 E21B21/06 E21B33/138 E21F15/00 E21F15/08 (Advanced/Invention)

CPC: B09C1/08 B09C1/02 C09K8/605 C09K8/94 E21B33/138 E21F15/005 E21F15/08 B09C1/10 B09B3/0016

US: 405/128.75 405/129.2 405/263 405/264 507/202



Family:

Publication number	Publication date	Application number	Application date
AP201407500 A0	20140331	AP20140007500	20111207
AU2011374961 AA	20130221	AU20110374961	20111207
CA2845211 AA	20140212	CA20112845211	20111207
CL2014000377 A1	20141010	CL20140000377	20140214
CO6970579 A2	20140613	CO20140046124	20140304
EA201490468 A1	20140730	EA20140090468	20111207
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PE19122014 A1	20141201	PE20140000213	20111207
US2013045052 AA	20130221	US20110211074	20110816
US2015183009 AA	20150702	US20150658795	20150316
US8985902 BB	20150324	US20110211074	20110816
WO13025233 A1	20130221	WO2011US63632	20111207

Priority:

US20110211074 20110816 US20150658795 20150316 WO2011US63632 20111207

Probable Assignee: GOLDER ASSOCIATES INC

Assignee(s): (std): FODOR JOHN C ; GOLDER ASSOCIATES INC ; MASLOFF BRIAN P ; GUSEK JAMES J

Assignee(s): BANK OF NOVA SCOTIA ; CELLULAR CONCRETE AND EQUIPMENT LLC

Inventor(s): (std): BRIAN P MASLOFF ; FODOR JOHN C ; GUSEK JAMES ; GUSEK JAMES J ; JAMES J GUSEK ; JOHN C FODOR ; MASLOFF BRIAN ; MASLOFF BRIAN P

Agent(s): SPRUSON AND FERGUSON; GOWLING LAFLEUR HENDERSON LLP; PORZIO RIOS AND ASOCIADOS; JUAN PABLO CADENA SARMIENTO; DORITY AND MANNING PA; LEBLANC STEVEN R

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 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