

Search query (2): [SP]: 1. an aqueous anionic surfactant foaming solution for use in an enhanced oil recovery process comprising (i) one or more alpha-olefin sulfonate (aos), (ii) a solvent having the chemical formula $C_8H_{18}O_3$, $C_8H_{16}O_3$, or mixtures thereof, and (iii) water. 2. the aqueous anionic surfactant foaming solution of claim 1 wherein the solvent has an octanol-water partitioning constant of from 0.05 to 0.8. 3. the aqueous anionic surfactant foaming solution of claim 1 wherein the solvent is present in an amount of from 10 weight percent to 60 weight percent, weight percent based on the total weight of the aos and solvent. 4. the aqueous anionic surfactant foaming solution of claim 1 wherein the solvent is [ftmg=81301575] or mixtures thereof. 5. the aqueous anionic surfactant foaming solution of claim 1 wherein the one or more alpha-olefin sulfonate has 10 to 18 carbons. 6. the aqueous anionic surfactant foaming solution of claim 1 wherein the one or more alpha olefin sulfonate comprises both hydroxy-sulfonates and alkene-sulfonates. 7. the aqueous anionic surfactant foaming solution of claim 1 wherein the one or more alpha olefin sulfonate has 12 carbons. 8. a method of recovering oil from a reservoir during gas injection into said reservoir comprising the steps of: (a) at least periodically injecting a gas and a foam-forming composition into a reservoir wherein the foam-forming composition comprises an aqueous anionic surfactant foaming solution comprising: (i) one or more alpha-olefin sulfonate (ii) a solvent having the chemical formula $C_8H_{18}O_3$, $C_8H_{16}O_3$, or mixtures thereof, and (iii) water and (b) contacting hydrocarbons in the reservoir with the foam and the gas so as to assist in the recovery of hydrocarbons from the reservoir. 9. the method of claim 8 wherein the aqueous anionic surfactant foaming solutions (a) is added to/diluted with a aqueous diluent at the well head so that the aos is present in the down-hole aqueous diluent in an amount of from 0.0001 to 2 weight percent.

Results: 11

1) Family number: 57946293 (US2016083642A)

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Title: A LOW TEMPERATURE STABILIZED FOAM-FORMING COMPOSITION FOR ENHANCED OIL RECOVERY

Abstract: Source: US2016083642A This invention relates to a foam-forming composition having good low temperature stability and method of use thereof for enhanced oil recovery. Said foam-forming composition comprises an anionic sulfonate surfactant, preferably an alpha-olefin sulfonate, a alkyl ether solvent, and water and is preferably stable to at least -5C. A preferred alkyl ether solvent has the formula $C_8H_{18}O_3$, $C_8H_{16}O_3$, or mixtures thereof. Preferred alpha-olefin sulfonate have 10 to 18 carbons, preferably 12 carbons. A preferred method for recovering oil from a reservoir comprises the periodic injection of gas and said foam-forming composition into the reservoir and contacting the oil in the reservoir with the foam so as to assist in the recovery of oil from the reservoir.

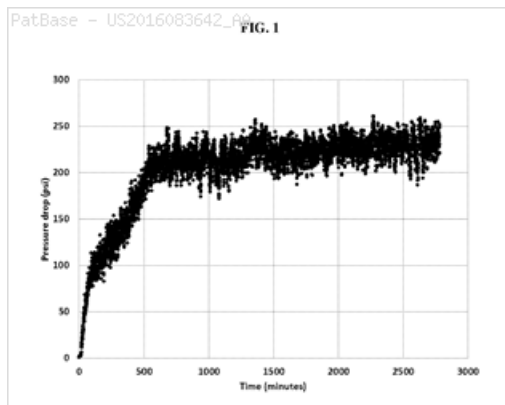
Classifications:

International (IPC 8-9): C09K8/12 C09K8/584 C09K8/594

E21B43/16 (Advanced/Invention)

CPC: E21B43/168 C09K8/584 C09K8/594

US: 166/305.1 507/202



Family:

Publication number	Publication date	Application number	Application date
AR096510 AA	20160113	AR2014P102142	20140530
CA2913136 AA	20151120	CA20142913136	20140522
CN105209569 A	20151230	CN201480028320	20140522
CO7560423 A2	20160331	CO20150303631	20151222
EP3004283 A1	20160413	EP20140733808	20140522
IN11156DN2015 A	20160520	IN2015DN11156	20151207
MX2015015664 A1	20160317	MX20150015664	20140522
US2016083642 AA	20160324	US20140780228	20140522
WO14193731 A1	20141204	WO2014US39145	20140522

Priority:

US20130829512P 20130531 US20140780228 20140522 WO2014US39145 20140522

Probable Assignee: DOW GLOBAL TECHNOLOGIES LLC

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

Assignee(s): FRATTARELLI DAVID L ; ABBAS SAYEED ; KNIGHT TROY E ; WOELFLE GUPTA CAROLINE ; TUCKER CHRISTOPHER J ; SANDERS AARON W

Inventor(s): (std): AARON W SANDERS ; ABBAS SAYEED ; FRATTARELLI DAVID L ; CAROLINE WOELFLE GUPTA ; CHRISTOPHER J TUCKER ; DAVID L FRATTARELLI ; KNIGHT TROY E ; SANDERS AARON W ; WOELFLE GUPTA CAROLINE ; TUCKER CHRISTOPHER J ; SAYEED ABBAS ; TROY E KNIGHT

Agent(s): SMART AND BIGGAR; LUZ CLEMENCIA DE PAEZ; ANDREWS PAUL DAVID; 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

2) Family number: 1111466 (US3852221A)

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Title: LIQUID OLEFIN SULFONATE DETERGENT

Abstract: Source: US3852221A Liquid detergent formulations that are based on particular olefin sulfonates provide exceptional deterative performers that are homogeneous, clear and stable at low temperatures.

Classifications:

International (IPC 8-9): C11D1/12 C11D1/14 C11D1/37 C11D1/831 C11D17/00 (Advanced/Invention);
C11D1/02 C11D1/831 C11D17/00 (Core/Invention)

International (IPC 1-7): C11D1/12 C11D1/14 C11D1/29 C11D1/66 C11D1/83 C11D1/831 C11D17/00 C11D3/44

CPC: C11D1/655 C11D1/143 C11D1/29 C11D1/523

European: C11D1/12 C11D17/00B

US: 252/54.8 252/548 510/429 510/496

**SUBSTITUTE
REPLACEMENT**

SECTION is not Present

Cette Section est Absente

Family:

Publication number	Publication date	Application number	Application date
CA976448 A1	19751021	CA19720148013	19720726
DE2241031 A1	19730308	DE19722241031	19720821
GB1341937 A	19731225	GB19720037856	19720814
JP48030712 A2	19730423	JP19720083265	19720819
JP4830712 A2	19730423	JP19720083265	19720819
JP50001127 B4	19750116	JP19720083265	19720819
US3852221 A	19741203	US19710173314	19710819

Priority:

US19710173314 19710819

Probable Assignee: JEFFERSON CHEM CO INC

Assignee(s): (std): JEFFERSON CHEM CO INC

Assignee(s): JEFFERSON CHEM CO US ; JEFFERSON CHEMICAL CO ; JEFFERSON CHEMICAL CO INC ; JEFFERSON CHEMICAL CO INC HOUSTON TEX V ST A ; JEFFERSON CHEMICAL COMPANY INC ; TEXACO INC ; BENTLEY FLOYD E

Inventor(s): (std): BENTLEY FLOYD E ; BENTLEY FLOYD EDWARD ; BENTLEY F

Inventor(s): BENTLEY F US ; BENTLEY FLOYD EDWARD AUSTIN TEXAS V ST A ; BENTLEY FLOYD EDWARD AUSTIN TEXAS VSTA

3) Family number: 12450361 (US5502538A)

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Title: Focus detection device

Abstract: Source: US5502538A This focus detection device uses electric charge accumulation type photoelectric conversion devices. The time period for the next episode of electric charge accumulation by these photoelectric conversion devices is calculated based upon the time period for the current episode of electric charge accumulation, so as to keep the maximum level of an electrical signal for focus detection output from the photoelectric conversion devices less than or equal to a previously determined target level. The accumulation of electric charge by the photoelectric conversion devices is then performed according to this calculated electric charge accumulation time period, and the resultant electrical signal for focus detection is output. A monitor photoelectric conversion device is provided for monitoring the electric charge accumulation state of the photoelectric conversion devices, and this monitor photoelectric conversion device outputs a monitor electrical signal correlated to the average amount of electric charge accumulation of the photoelectric conversion devices. If the electrical signal for focus detection output by the photoelectric conversion devices comes to exceed the maximum input level for its A/D conversion device, then the standard level for the monitor electrical signal is reduced, so as to ensure quick termination of the next episode of electric charge accumulation by the photoelectric conversion devices.

Classifications:

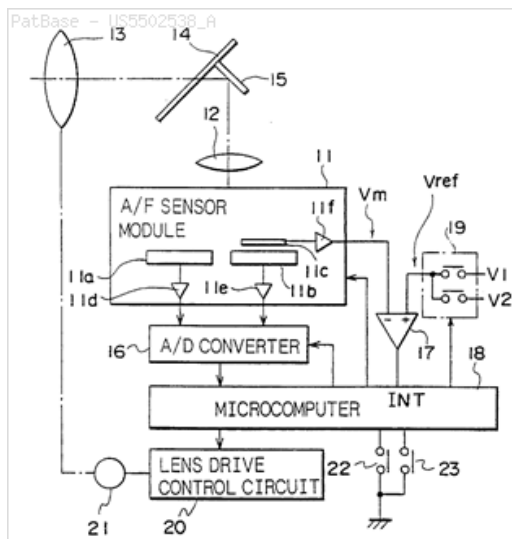
International (IPC 8-9): G02B7/28 G02B7/36
G03B13/36 (Advanced/Invention)

International (IPC 1-7): G02B7/28 G03B13/36 H04N3/14

CPC: G02B7/36

European: G02B7/36

US: 348/297 354/402 396/96



Family:

Publication number	Publication date	Application number	Application date
JP6003580 A2	19940114	JP19920161069	19920619
US5502538 A	19960326	US19950458460	19950602

Priority:

JP19920161069 19920619 US19930076956 19930616 US19950458460 19950602
 US19940197562 19940217

Probable Assignee:

NIPPON KOGAKU KK

Assignee(s): (std):

NIPPON KOGAKU KK

Assignee(s):

NIKON CORP

Inventor(s): (std):

OGASAWARA AKIRA

4) Family number: 15909930 (US6302209B)

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Title: Surfactant compositions and uses therefor

Abstract: Source: US6302209B Solid surfactant suspension compositions are formed by combining solid surfactants, such as alpha-olefin sulfonates, with an organic base fluid, such as diesel. Solid surfactant suspensions may be combined with an aqueous carrier fluid to form surfactant-containing fluids suitable for, among other things, forming foams or for water wetting surfaces. Solid surfactant suspensions may also be combined with additive materials, such as polymer particles, to form a dispersion or emulsion. Polymer-containing solid surfactant suspensions may also be combined with aqueous carrier fluids to form, for example, viscosified, gelled, or foamed fluids. Concentration of solid surfactant materials contained in a solid surfactant suspension may be varied to affect the function the solid surfactant suspension. For example, the solid surfactant material may function as a polymer surface wetting agent, an emulsifier, a dispersant, a viscosifier, and/or a foamer in well completion and remedial and/or workover fluids.

Classifications:

International (ipc 8-9): B01F17/00 C09K8/035

C09K8/60 (Advanced/Invention);

B01F17/00 C09K8/02 C09K8/60 (Core/Invention)

International (ipc 1-7): E21B43/00

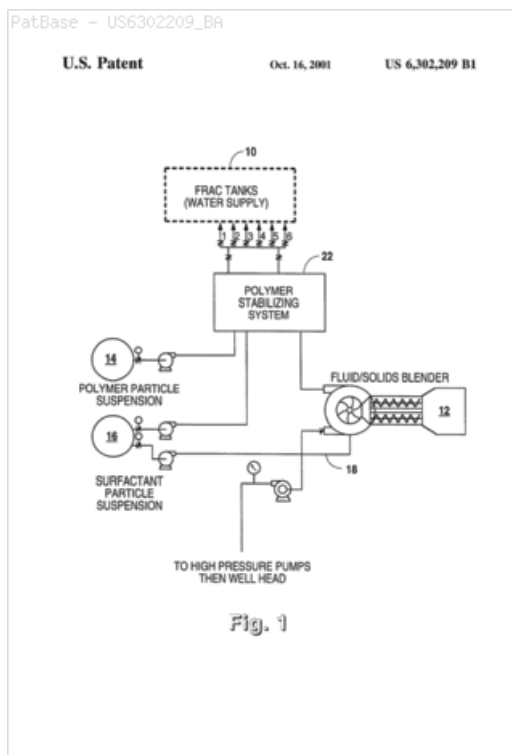
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C09K8/602

European: B01F17/00E2 B01F17/00K B01F17/00M C09K8/035

C09K8/60G

US: 166/305.1 166/311 507/244 507/259 507/261



Family:

Publication number	Publication date	Application number	Application date
US6302209 BA	20011016	US19980151169	19980910

Priority:

US19970058363P 19970910 US19980151169 19980910

Probable Assignee: B J SERVICES CO

Assignee(s): (std): BJ SERVICES CO

Assignee(s): BJ SERVICES COMPANY ; B J SERVICES CO

Inventor(s): (std): AULT MARSHALL G ; BRANNON HAROLD D ; DAWSON JEFFREY C ; THOMPSON SR JOSEPH E ; WOOD WILLIAM R ; WOO GEORGE TSO CHIH

5) Family number: 17037170 (US4769730A)

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Title: Magnetic tape cassette with an improved guard panel

Abstract: Source: US4769730A In a magnetic tape cassette of the type having a guard panel disposed at the front opening of the cassette housing to cover the opening when the cassette is in storage and expose it when in use, an electrically conductive tape, consisting of a metal foil supported by a base of plastic film, is affixed with adhesive or by ultrasonic welding or other technique to the inner surface of the guard panel. The metal foil may be located on either side of the base of the conductive tape to face the magnetic tape or the guard panel.

Classifications:

International (ipc 8-9): G11B23/087

G11B23/50 (Advanced/Invention);

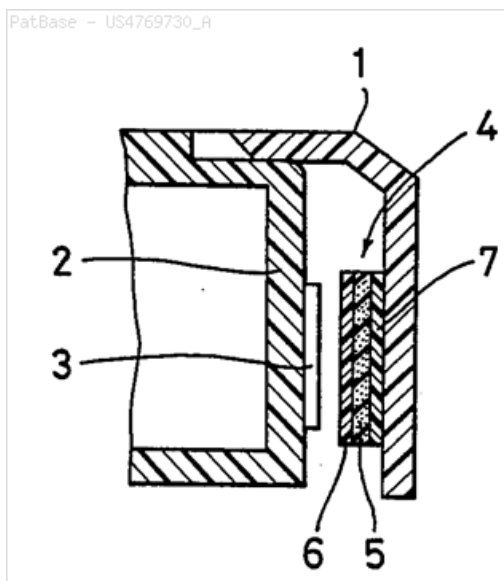
G11B23/087 G11B23/50 (Core/Invention)

International (ipc 1-7): G11B23/02 G11B23/087

CPC: G11B23/08735 G11B23/502

European: G11B23/087A4 G11B23/50B

US: 360/132 G9B/23.067 G9B/23.097



Family:

Publication number	Publication date	Application number	Application date
JP61068375 U1	19860510	JP19840153035U	19841012
US4769730 A	19880906	US19850781677	19850930

Priority:

JP19840153035U 19841012

Probable Assignee: TDK A CORP OF JAPANESE CORP

Assignee(s): (std): TDK CORP

Assignee(s): TDK A CORP OF JAPANESE CORP

Inventor(s): (std): OKAMURA MASATOSHI ; SHIBA HARUO

6) Family number: 17924388 (US4860828A)

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Title: GAS FLOODING PROCESSING FOR THE RECOVERY OF OIL FROM SUBTERRANEAN FORMATIONS

Abstract: Source: US4860828A In a gas flooding or miscible gas flooding operation, the sweep efficiency of the gas is improved using a mixture of an alkylated diphenyl sulfonate and an alpha-olefin sulfonate as the surfactants in a mobility control fluid or diverter.

Classifications:

International (ipc 8-9): C09K8/594 E21B43/16

E21B43/20 (Advanced/Invention);

C09K8/58 E21B43/16 (Core/Invention)

International (ipc 1-7): E21B43/20 E21B43/22

CPC: Y10S507/936 C09K8/594 E21B43/168

European: C09K8/594 E21B43/16G2

US: 166/268 166/273 166/274 166/275 166/403 252/8.554 507/202

507/259 507/936

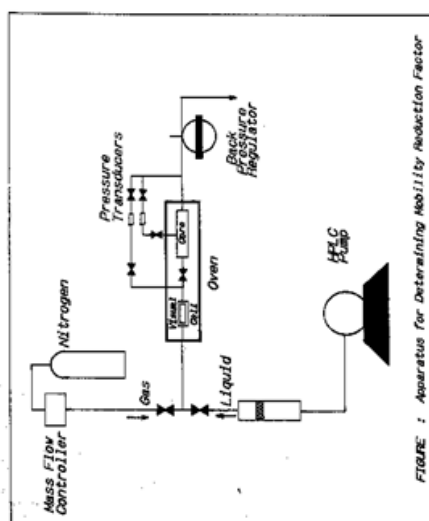


FIGURE : Apparatus for Determining Mobility Reduction Factor

Patent Agents
Smart & Biggar

Family:

Publication number	Publication date	Application number	Application date
CA1301636 A1	19920526	CA19890601370	19890531
US4860828 A	19890829	US19880200824	19880601

Priority:

CA19890601370 19890531 US19880200824 19880601

Probable Assignee: DOW CHEMICAL CO**Assignee(s):** (std): DOW CHEMICAL CO**Assignee(s):** DOW CHEMICAL CO A CORP OF DE ; DOW CHEMICAL CO THE ; THE DOW CHEMICAL COMPANY ; DOW CHEMICAL COMPANY THE ; OSWALD THOMAS ; ROBSON IAN A**Inventor(s):** (std): OSWALD THOMAS ; ROBSON IAN A**Agent(s):** SMART AND BIGGAR**7) Family number: 2057963 (US4367169A)**

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Title: ALPHA -OLEFIN SULFONATE-CONTAINING, LIQUID DETERGENT COMPOSITIONS HAVING IMPROVED LOW-TEMPERATURE STABILITY

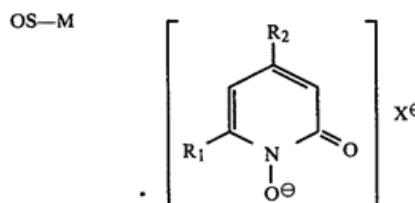
Abstract: Source: US4367169A A liquid detergent composition having superior stability at low temperatures, which contains (a) an anionic surface active agent represented by the general formula: OS-M (wherein OS is an acid residue of a straight-chained olefin sulfonate having an average carbon number of 10 to 16, and M is an alkali- or alkaline earth metal) in an amount of 3 to 30 percent by weight of the composition weight; and (b) a compound represented by the general formula: (wherein R1 is an alkyl group having a carbon number of 1 to 17, alkenyl group having a carbon number of 2 to 17, cycloalkyl group having a carbon number of 5 to 8, bicycloalkyl group having a carbon number of 7 to 9, cycloalkyl-alkyl group having a carbon number of 1 to 4 in the alkyl portion (the cycloalkyl residue being optionally substituted by at least one alkyl group having a carbon number of 1 to 4); R2 is hydrogen, alkyl group having a carbon number of 1 to 4, alkenyl group having a carbon number of 2 to 4, alkynyl group having a carbon number of 2 to 4, or halogen; and X is an organic amine residue.) in an amount of 0.1 to 10.0 percent by weight of the composition weight.

Classifications:

International (IPC 8-9): A61K8/00 A61K8/46 A61K8/49 A61Q5/02 B01F17/02 C11D1/14 C11D17/00 C11D3/28 (Advanced/Invention); A61K8/00 A61K8/30 A61Q5/02 B01F17/02 C11D1/02 C11D17/00 C11D3/26 (Core/Invention)

International (IPC 1-7): B01F17/02 C11D1/14 C11D3/28**CPC:** C11D1/143 C11D3/28**European:** C11D1/14B C11D17/00B C11D3/28**US:** 252/536 252/542 252/545 252/555 252/DIG.14 510/127 510/414 510/426 510/432 510/500

PatBase - US4367169_A

**Family:**

Publication number	Publication date	Application number	Application date
DE3142542 A1	19820708	DE19813142542	19811027
JP1557500 C3	19900516	JP19800150293	19801027
JP57074395 A2	19820510	JP19800150293	19801027
JP60032678 B4	19850729	JP19800150293	19801027
US4367169 A	19830104	US19810313815	19811022

Priority:

JP19800150293 19801027

Probable Assignee: LION CORP**Assignee(s):** (std): LION CORP**Assignee(s):** RAION KK ; LION A CORP OF JAPAN CORP**Inventor(s):** (std): MATSUSHITA TAKAO ; UCHINO NORIYUKI ; UCHINO NORIYUKI**8) Family number: 2094798 (US4380266A)**

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Title: RESERVOIR-TAILORED CO₂-AIDED OIL RECOVERY PROCESS

Abstract: Source: US4380266A An oil recovery process that utilizes an injection of CO₂, surfactant and water is improved by using a selected polyalkoxylated alcoholic or phenolic surfactant which is capable of forming three particular types of dispersions with the fluids in the reservoir at the reservoir conditions which are maintained during the process.

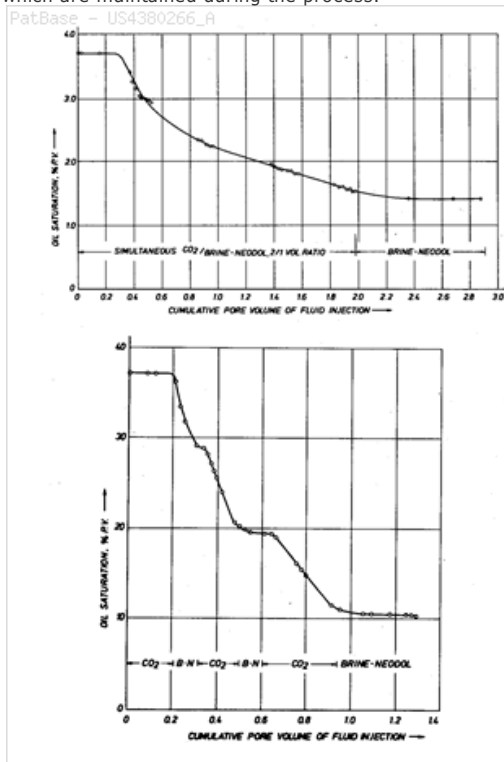
Classifications:**International (ipc 8-9):** C09K8/594 E21B43/16

E21B43/22 (Advanced/Invention);

C09K8/58 E21B43/16 (Core/Invention)

International (ipc 1-7): B01F17/42 E21B43/22 E21B43/25

E21B47/06

CPC: Y02P90/70 C09K8/594 E21B43/164**European:** C09K8/594 E21B43/16E**US:** 166/252 166/273 166/274 166/403**Family:**

Publication number	Publication date	Application number	Application date
CA1174965 A1	19840925	CA19820394473	19820119
DE3208662 A1	19820923	DE19823208662	19820310
FR2501779 A1	19820917	FR19820004026	19820310
FR2501779 B1	19840907	FR19820004026	19820310
GB2094863 A1	19820922	GB19820006856	19820309
GB2094863 B2	19840830	GB19820006856	19820309
US4380266 A	19830419	US19810243164	19810312

Priority:

CA19820394473 19820119 US19810243164 19810312

Probable Assignee: SHELL OIL CO A DE CORP**Assignee(s):** (std): SHELL CANADA LTD ; SHELL INT RESEARCH ; SHELL OIL CO**Assignee(s):** SHELL OIL COMPANY ; SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ BV ; SHELL OIL CO A DE CORP ; WELLINGTON SCOTT L ; SHELL INT RESEARCH MAA ; SHELL INT RESEARCH MIJ BV ; SHELL INTERNATIONAL RESEARCH MAA ; SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B V ; SHELL CANADA LIMITED**Inventor(s):** (std): WELLINGTON SCOTT L ; WELLINGTON SCOTT LEE**Inventor(s):** LEE WELLINGTON SCOTT ; SCOTT LEE WELLINGTON**Agent(s):** SMART AND BIGGAR**9) Family number: 29257360 (US4532053A)**

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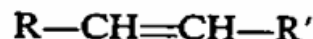
Title: MICELLAR SLUG FOR OIL RECOVERY

Abstract: Source: US4532053A A micellar slug for use in the recovery of oil, the slug containing a hydrocarbon, an aqueous medium, a surfactant, and a cosurfactant. The surfactant contains as an essential component an internal olefin sulfonate. This micellar slug has an excellent capability for decreasing an interfacial tension between oil and water and an excellent salinity tolerance and hard-water resistance. Furthermore, the micro-emulsion can be formed from this micellar slug in a wide composition range.

Classifications:

International (IPC 8-9): B01F17/08 C09K8/584 E21B43/16 E21B43/22 (Advanced/Invention);
B01F17/00 C09K8/58 E21B43/16 (Core/Invention)
International (IPC 1-7): B01F17/00 E21B43/16 E21B43/22
CPC: Y10S507/938 C09K8/584
European: C09K8/584
US: 166/270.1 166/274 166/275 252/8.55D 507/259 507/261 507/262 507/938

PatBase - US4597879_A



Family:

Publication number	Publication date	Application number	Application date
CA1232127 A1	19880202	CA19840449413	19840312
GB2136855 A1	19840926	GB19840006012	19840307
GB8406012 A0	19840411	GB19840006012	19840307
JP1057235 B4	19891205	JP19820010858	19820128
JP1574630 C3	19900820	JP19820010858	19820128
JP1669835 C3	19920612	JP19830045291	19830319
JP1669836 C3	19920612	JP19830048666	19830325
JP3031871 B4	19910508	JP19830045291	19830319
JP3031872 B4	19910508	JP19830048666	19830325
JP58131295 A2	19830805	JP19820010858	19820128
JP59173485 A2	19841001	JP19830045291	19830319
JP59177496 A2	19841008	JP19830048666	19830325
SU1378788 A3	19880228	SU19833540604	19830127
US4532053 A	19850730	US19830458360	19830117
US4555351 A	19851126	US19830480770	19830331
US4556108 A	19851203	US19830480771	19830331
US4597879 A	19860701	US19830480768	19830331

Priority:

CA19840449413 19840312 JP19820010858 19820128 US19830458360 19830117
 JP19830045291 19830319 JP19830048666 19830325

Probable Assignee: LION CORP

Assignee(s): (std): LION CORP ; LION CORP FA

Assignee(s): LION CORP FIRMA ; RAION KK ; YAMADA JUNICHI ; UKIGAI TOSHIYUKI ; MORITA HIROSHI ; KAWADA YASUYUKI ; LION A CORP OF JAPAN CORP

Inventor(s): (std): KAWADA YASUYUKI ; KAWADA YASUYUKI ; KHIROSI MORITA JP ; MORITA HIROSHI ; MORITA KHIROSI ; TOSIYUKI UKIGAI JP ; UKIGAI TOSHIYUKI ; UKIGAI TOSIYUKI ; UKIUMI NORIYUKI ; UKIUMI NORIYUKI ; YAMADA JIYUNICHI ; YAMADA JUN ICHI ; YAMADA JUNICHI ; YAMADA YUNITI ; YASUYUKI KAWADA JP ; YUNITI YAMADA JP

Inventor(s): YASUYUKI KAWADA ; HIROSHI MORITA ; HIROSHI MORITA ; JUNICHI YAMADA ; JUNICHI YAMADA ; YASUYUKI KAWADA ; TOSHIYUKI UKIGAI ; TOSHIYUKI UKIGAI

Agent(s): MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP

10) Family number: 478355 (GB1225218A)

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Title: Aqueous cleansing compositions.

Abstract: Source: GB1225218A 1,225,218. Aqueous cleansing compositions. FARBERWERKE HOECHST A.G. 31 July, 1969 [31 July, 1968], No. 38541/69. Heading C5D. An aqueous cleansing composition comprises a mixture of (A) an alpha olefin sulphonate having from 8 to 20 carbon atoms, (B) a salt of an alkyl- or alkenyl-polyglycol-ether carboxylic acid having from 8 to 20 carbon atoms in the alkyl or alkenyl group, and, optionally one or more builders. The alpha olefin sulphonate may be a mixture of the mono- and di-sulphonates. Component (B) is preferably a salt of a compound of formula in which R represents a straight-chained or branched alkyl or alkenyl radical having from 8 to 20 carbon atoms, m is an integer from 1 to 15 and n is 1 or 2. (A) and (B) may be in the form of salts of an alkali metal, ammonia or an organic base, e.g. cyclohexylamine, morpholine, an alkanolamine or the methoxypropylammonium ion. Builders may be alkali metal or ammonium tripolyphosphates, pyrophosphates or silicates, carboxymethyl cellulose or sequestering agents. Other additions may be nonionic and/or anionic detergents, betaines, alkylaminooxides, alkylsulphoxides, alkyl - phosphineoxides, polyalkylene glycols, alcohols, toluene or xylene sulphonates, dyestuffs, perfumes, propylene glycol and polyalkylene glycols of high molecular weight. Reference has been directed by the Comptroller to Specification 1,169,496.

Classifications:

International (IPC 8-9): C11D1/06 C11D1/37

C11D17/00 (Advanced/Invention);

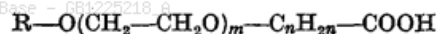
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International (IPC 1-7): C11D1/00 C11D1/06 C11D1/14 C11D1/37 C11D17/00

CPC: C11D1/37 C11D1/06 C11D1/143

European: C11D1/06 C11D1/37 C11D17/00B M11D1/14B

PatBase - GB1225218_A



Family:

Publication number	Publication date	Application number	Application date
DE1792175 A1	19711014	DE19681792175	19680731
DE1792175 B2	19760513	DE19681792175	19680731
DE1792175 C3	19770113	DE19671792175	19680731
FR2014084 A1	19700410	FR19690026287	19690731
GB1225218 A	19710317		19690731

Priority:

DE19671792175 19680731 DE19681792175 19680731

Probable Assignee: HOECHST AG

Assignee(s): (std): HOECHST AG

Assignee(s): FARBERWERKE HOECHST ; FARBERWERKE HOECHST AG VORM MEISTER LUCIUS AND BRUENING ; FARBERWERKE HOECHST VORM MEISTER LUCIUS AND BRUENING AG

Inventor(s): (std): AUFSCHNAITER AMIN BERTRAM VON ; SCHNEIDER GERHART DR ; VON AUFSCHNAITER AMIN

11) Family number: 4836064 (US4534411A)

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Title: MICELLAR SLUG FOR OIL RECOVERY

Abstract: Source: US4534411A A micellar slug for use in the recovery of oil, the slug containing a hydrocarbon, an aqueous medium, a surfactant, and a cosurfactant. The surfactant contains as essential components (a) at least one alpha-olefin sulfonate having 10 to 30 carbon atoms and (b) at least one ethoxylate selected from the group consisting of polyoxyethylene alkyl ethers and polyoxyethylene alkylphenyl ethers in a weight ratio of component (a) to component (b) of 8/2 to 3/7. The micro-emulsion can be formed from this micellar slug in a wide composition range. Furthermore, this micellar slug has an excellent salinity tolerance and hard-water resistance.

Classifications:**International (IPC 8-9):** C09K8/584 E21B43/22 (Advanced/Invention);

C09K8/58 E21B43/16 (Core/Invention)

International (IPC 1-7): C11D1/83 E21B43/22**CPC:** Y10S507/938 C09K8/584**European:** C09K8/584**US:** 166/270.1 166/274 252/312 252/8.55D 507/259 507/261 507/262 507/938 516/58 516/59 516/76

17		18	
1673721		Т а б л и ц а 7	
Опра- зец 8	Неионогенное ПАВ	Дису- альная оценка	Вязкость, натекание, сП ×10 ⁻³ дн/см
61	Полиоксипентадесиловый эфир (n = 1)	о	3,81 74
62	Полиоксипентастеарило- вый эфир (n = 10)	о	9,81 31
63	Полиоксипентаксеисефе- ниловый эфир (n = 1)	о	5,54 91
64	Полиоксипентадорацил- фениловый эфир (n = 15)	о	11,21 22
65	Полиоксипентаксидоде- цилфениловый эфир (n = = 12)	о	13,21 37
66	То же (n = 15)	о	15,31 25
67*	То же (n = 18)	х	- -

* Сравнение.

Редактор М.Келенш Составитель И.Долыкова Технический редактор Л.Олейник Корректор П.Писменко

Заказ 1732/59 Тираж 514 Подписное

ВНИИ Государственного комитета по изобретениям и открытиям при ГКНТ СССР
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JP58160491 A2	19830922	JP19820040290	19820316
SU1473721 A3	19890415	SU19833564897	19830315
US4534411 A	19850813	US19830475602	19830315

Priority:

JP19820040290 19820316

Probable Assignee: LION CORP**Assignee(s):** (std): LION CORP**Assignee(s):** LION CORP FA ; LION CORP FIRMA ; RAION KK ; LION A CORP OF JAPAN CORP

Inventor(s): (std): KAVADA YASUYUUKI ; KAWADA YASUYUKI ; MORITA HIROSHI ; MORITA KHIROSI ; UKIGAI TOSHIYUKI ; UKIUMI NORIYUKI ; YAMADA JIYUNICHI ; YAMADA JUNICHI ; YAMADA YUNISI ; YUKIGAI TOSIYUUKI

Inventor(s): YUNISI YAMADA JP ; YASUYUUKI KAVADA JP ; TOSIYUUKI YUKIGAI JP ; KHIROSI MORITA JP