

Search history

Search 1: TAC=((disperse or dispersion) and (bituminous or oil or tar) and sands) (Results 244)
Search 2: TAC=(fluid AND acid AND fatty) (Results 9602)
Search 3: pn = 1 AND 2 (Results 7)

1) Family number: 49263023 (US2011174734A)

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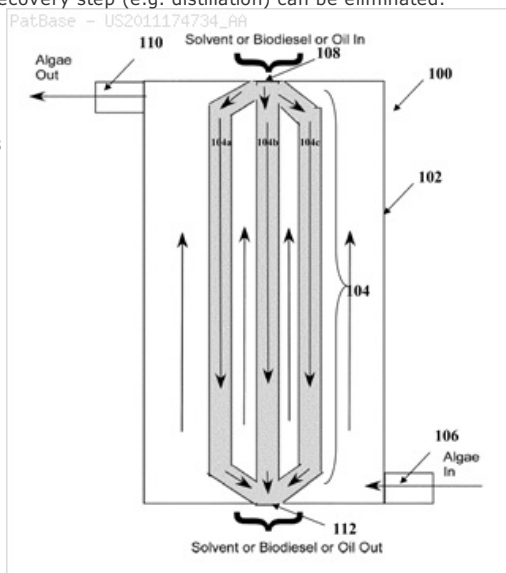
Title: NON-DISPERSIVE PROCESS FOR INSOLUBLE OIL RECOVERY FROM AQUEOUS SLURRIES

Abstract: The development and application of a novel non-polar oil recovery process utilizing a non-dispersive solvent extraction method to coalesce and recover oil from a bio-cellular aqueous slurry is described herein. The process could apply to recovery of algal oil from a lysed algae slurry, recovery of Omega fatty acids from a bio-cellular aqueous feed, recovery of Beta-carotene from a bio-cellular aqueous feed and for the removal from produced water in oil production and similar type applications. The technique of the present invention utilizes a microporous hollow fiber (MHF) membrane contactor. The novel non-polar oil recovery process described herein can be coupled to a collecting fluid (a non-polar solvent such as heptane, a biodiesel mixture or the previously extracted oil) that is circulated through the hollow fiber membrane. In cases where the biodiesel mixture or the previously extracted oil is used the solvent recovery step (e.g. distillation) can be eliminated.

Classifications:

International (IPC 8-9): B01D B01D11/00 B01D11/02 B01D11/04 B01D15/04 B01D17/00 B01D17/02 B01D17/04 B01D19/00 B01D35/30 B01D39/00 B01D53/22 B01D61/00 B01D61/14 B01D61/18 B01D61/24 B01D61/40 B01D61/58 B01D63/00 B01D63/02 B01D63/04 B01D65/02 B01D67/00 B01D69/08 B01D71/26 B01D71/28 B01D71/30 B01D71/32 B01D71/52 B05D1/18 C02F1/26 C02F1/40 C02F1/44 C02F3/32 C07C57/00 C07C67/02 C07C7/144 C09K3/00 C10G1/00 C10G1/04 C10G31/06 C10G31/09 C10G31/10 C10G31/11 C10G33/06 C10G53/02 C10G53/04 C10G7/02 C10L1/00 C10L1/02 C11B1/00 C11B1/02 C11B1/04 C11B1/10 C11B13/00 C11B3/00 C11C1/00 C11C1/08 C11C3/00 C12N1/06 C12P7/64 (Advanced/Invention); C11B13/00 (Core/Invention); B01D (Subclass/Invention)
CPC: C10G2300/4081 B01D67/0093 Y02E50/13 C12M47/10 B01D17/02 B01D61/58 B01D71/28 B01D71/30 B01D71/52 B01D69/08 B01D71/26 B01D71/32 Y02W10/37 B01D61/246 B01D67/0088 C10G53/02 B01D17/042 B01D2321/162 B01D2321/164 B01D2321/168 B01D65/02 B01D2311/2649 B01D2311/2676 C11C1/08 C10G53/04 C11B3/001 C10G1/045 B01D2315/10 B01D17/045 C10G1/002 C10G33/06 C11B1/04 C11B3/006 C11B3/008 C10G31/11 B01D17/085 B01D19/0031 C10G7/02 C10G31/06 C10G31/09 C10G31/10 B01D61/00 B01D63/02 B01D2311/02 B01D2311/04 B01D2323/04 B01D2323/46 B01D2325/38 C10G1/04 C10G2300/1014 C10G2300/44 C10L1/026 C11B1/00 C11B1/02 C11B13/00 C11C3/003 Y02P30/20 Y02W30/74
European: B01D63/02 B01D67/00R18 C10G1/04 L01D325/38 Y02E50/13

US: 1/1 196/46.1 208/177 208/308 210/184 210/193 210/259 210/295 210/321.6 210/321.69 210/321.72 210/321.87 210/634 210/636 210/638 210/639 210/643 210/644 210/650 210/651 252/182.12 252/182.120S 422/222 426/252 426/425 426/435 427/244 435/134 435/134P 435/271 44/307 44/307S 554/1 554/163 554/163S 554/175 554/175P 554/206 585/818



Family:

Publication number	Publication date	Application number	Application date
AU2011205246 AA	20110721	AU20110205246	20110113
AU2011205246 BB	20130919	AU20110205246	20110113
AU2013245504 AA	20131107	AU20130245504	20131017
AU2013245504 BB	20141106	AU20130245504	20131017
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CA2874012 C	20171205	CA20132874012	20130614
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EP2523737 A1	20121121	EP20110733393	20110113
EP2523737 A4	20151014	EP20110733393	20110113
EP2861331 A1	20150422	EP20130803446	20130614
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EP2961519 A4	20160615	EP20130876440	20131209
EP2961519 B1	20180808	EP20130876440	20131209

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IL237061 A1	20190131	IL20110237061	20110113
MX2012007901 A1	20120803	MX20120007901	20110113
MX2014014942 A1	20150507	MX20140014942	20130614
MX2015011088 A1	20160301	MX20150011088	20131209
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US2012208247 AA	20120816	US20110280028	20111024
US2013270187 AA	20131017	US20130918766	20130614
US2014131279 AA	20140515	US20130100186	20131209
US2014243573 AA	20140828	US20130052516	20131011
US2015087877 AA	20150326	US20140558325	20141202
US2016008762 AA	20160114	US20150865558	20150925
US8486267 BB	20130716	US20110006342	20110113
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US8617396 BB	20131231	US20110280028	20111024
US9149772 BB	20151006	US20140558325	20141202
US9643127 BB	20170509	US20130100186	20131209
US9688921 BB	20170627	US20130052516	20131011
US9782726 BB	20171010	US20130918766	20130614
WO11088242 A1	20110721	WO2011US21185	20110113
WO13188837 A1	20131219	WO2013US46007	20130614
WO14133619 A1	20140904	WO2013US73816	20131209

Priority:

US20100295607P	20100115	AU20110205246	20110113	CA20112835930	20110113
CA20112786709	20110113	US20110006342	20110113	WO2011US21185	20110113
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US20130100186	20131209	WO2013US73816	20131209	CA20132786709	20131230
US20140558325	20141202	AU20150200363	20150127	US20150865558	20150925
AU20160222461	20160902				

Probable Assignee: BOARD OF UNIV OF TEXAS SYSTEM

Assignee(s): (std): ORGANIC FUELS ALGAE TECHNOLOGIES LLC ; OPENALGAE LLC ; KIPP PETER B ; CONNELLY RHYKKA ; BRIGGS STEPHEN WILLIAM ; KATZ LYNN E ; HEBNER ROBERT E ; KINNEY KERRY A ; BOARD OF UNIV OF TEXAS SYSTEM ; ORGANIC FUELS ALGAE TECH LLC ; UNIV TEXAS ; SEIBERT FRANK ; POENIE MARTIN ; TRUSCOTT STACY S ; PEARSALL ROBERT ; WERST MICHAEL D ; BOARD OF REGENTS UNIV OF TEXAS SYSTEM

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Inventor(s): FRANK SEIBERT ; MARTIN POENIE ; KIPP PETER B HOUSTON ; TRUSCOTT STACY S AUSTIN ; BRIGGS STEPHEN WILLIAM AUSTIN ; SEIBERT FRANK AUSTIN ; SEIBERT FRANKUS

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC 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: 20804209 (US3653952A)

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Title: DYEABLE RESIN BONDED FIBROUS SUBSTRATES

Abstract: Fibrous substrate coated with an elastomer, an aminosilicon compound, and a dye or pigment.

Classifications:

International (IPC 8-9): C03C25/10 D06P1/06 D06P1/39 D06P1/44 D06P1/52 D06P1/642 D06P1/645 D06P3/80 (Advanced/Invention);

C03C25/10 D06P1/02 D06P1/39 D06P1/44 D06P1/64 D06P3/80 (Core/Invention)

International (IPC 1-7): C03C25/02 D06M15/643 D06M15/66 D06P1/44 D06P1/52 D06P1/76 D06P3/60 D06P3/62 D06P5/06 D06P5/10

CPC: Y10T428/31612 Y10T428/31667 Y10T442/2352 Y10T442/2992 C03C25/475 D06P1/645 D06P1/06 D06P1/39 D06P1/44 D06P1/5292 D06P1/642 D06P3/80

European: C03C25/10M D06P1/06 D06P1/39 D06P1/44 D06P1/52D8 D06P1/642 D06P1/645 D06P3/80

US: 117/123D 117/126AB 117/126GB 117/126GN 117/138.8E 117/138.8F 117/138.8N 117/138.8UA 117/138.8UF 117/141 117/142 117/161ZA 428/429 428/451 442/102 442/180 8/3 8/523 8/602 8/632

Locarno class: 8 / 3

Family:

Publication number	Publication date	Application number	Application date
CH369107 A	19630629	CH19590074898	19591001
CH374961 A	19630815	CH19590074897	19591001
CH7489859 A4	19630131	CH19590074898	19591001
DE1153719 B	19630905	DE1959U006305	19590626
DE1242555 B	19670622	DE1959U006304	19590626

FR1232589 A	19601010	FR19590798436	19590624
FR1232590 A	19601010	FR19590798437	19590624
GB882067 A	19611108	GB19590021768	19590625
GB882068 A	19611108	GB19590021769	19590625
US3545909 A	19701208	US19590804870	19590408
US3653952 A	19720404		19700616

Priority:

US19580744675 19580626 US19580744676 19580626 US19590804870 19590408
US19700046812 19700616

Probable Assignee: FRANCES DODGE GAGLIARDI

Assignee(s): (std): FRANCES DODGE GAGLIARDI ; UNION CARBIDE CORP

Assignee(s): MORGAN GUARANTY TRUST CO ; MORGAN GUARANTY TRUST CO OF NEW YORK AND MORGAN BA ; MORGAN GUARANTY TRUST CO OF NEW YORK AND MORGAN BANK (DELAWARE) COLLATERAL (AGENTS) SEE RECORD FOR REMAINING ASSIGNEES AS ; MORGAN GUARANTY TRUST CO OF NEW YORK AND MORGAN BANK DELAWARE COLLATERAL AGENTS SEE RECORD FOR REMAINING ASSIGNEES AS

Inventor(s): (std): GAGLIARDI DOMENICK DONALD ; DOMENICK DONALD GAGLIARDI ; GAGLIARDI DOMENICK D

Inventor(s): DOMENICK D GAGLIARDI ; DONALD GAGLIARDI DOMENICK

3) Family number: 28308503 (US2002123433A)

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Title: COMPOSITION AND METHOD FOR DUAL FUNCTION SOIL GROUTING EXCAVATING OR BORING FLUID

Abstract: An excavation fluid composition useful for enlarging a cavity in the earth includes a synthetic polymer and sodium silicate. The excavation fluid composition is formulated so as to enable the fluid in contact with unstable or sandy soils in the selected areas of the excavation to react and form silicate-based derivatives with lesser solubility, and movement and thus improve soil stability at the excavation wall.

Classifications:

International (IPC 8-9): A01B5/00 A61B3/10 A61B3/12 A61B3/16 A61B5/00 A61B5/03 C04B28/26

C09K17/48 (Advanced/Invention);

C04B28/00 C09K17/40 (Core/Invention)

International (IPC 1-7): C04B12/04 C09K7/00 C09K7/02 E02D5/18

CPC: A61B5/031 Y02W30/94 C04B26/04 C04B28/26 C04B2111/00732 C09K17/48

European: C04B26/04 C04B28/26 C09K17/48 M04B111/00T24

US: 106/633 166/293 166/295 405/263 405/267 405/52 507/110 507/111 507/117 507/117P 507/118 507/119 507/120 507/121 507/122 507/140 507/140P 507/140S 507/141 507/145

Family:

Publication number	Publication date	Application number	Application date
US2002123433 AA	20020905	US20010880409	20010613
US2005187112 AA	20050825	US20050107139	20050415
US6248697 BA	20010619	US19980023150	19980212
US6897186 BB	20050524	US20010880409	20010613

Priority:

US19970037712P 19970212 US19980023150 19980112 US19980023150 19980212
US20010880409 20010613 US20050107139 20050415

Probable Assignee: KB INT LLC

Assignee(s): (std): INT LLC KG ; KB INT LLC ; KB TECHNOLOGIES LTD ; WILKERSON JOHN M

Assignee(s): KG INTERNATIONAL LLC ; NORMAN CLINTON SCOTT ; KB INTERNATIONAL LLC ; KB INTIONAL ; KB INT ; GOODHUE K GIFFORD ; HOLMES MAX M

Inventor(s): (std): GOODHUE K G JR ; WILKERSON JOHN M III ; WILKERSON JOHN M ; NORMAN CLINTON SCOTT ; HOLMES MAX M ; GOODHUE K GIFFORD ; WILKERSON III JOHN M ; GOODHUE JR K GIFFORD

Inventor(s): GOODHUE K GJR ; WILKERSON JOHN MIII ; WILKERSON JOHN ; GOODHUE K ; III JOHN M ; WILKERSON ; JR K GIFFORD ; GOODHUE

Agent(s): HOWREY LLP; HOWREY SIMON ARNOLD AND WHITE LLP

4) Family number: 34401573 (US2007092432A)

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Title: THERMALLY EXFOLIATED GRAPHITE OXIDE

Abstract: A modified graphite oxide material contains a thermally exfoliated graphite oxide with a surface area of from about 300 m²/g to 2600 m²/g, wherein the thermally exfoliated graphite oxide displays no signature of the original graphite and/or graphite oxide, as determined by X-ray diffraction.

Classifications:

International (IPC 8-9): B01F17/00 B05D1/02 B05D1/04 B32B1/08

B32B27/06 B32B5/16 B32B9/00 B82Y30/00 B82Y40/00 C01B3/00

C01B31/00 C01B31/04 C01B32/192 C01B32/225 C01B32/23

C08C19/00 C08F2/00 C08K3/04 C08K3/18 C08K3/20 C08L91/00

C09B69/00 C09K8/34 C10M125/02 H01B1/04 H01B1/24 H01G4/20

H01M4/48 H01M4/58 H05K1/09 H05K3/00

H05K3/10 (Advanced/Invention);

C01B3/00 C01B31/04 (Advanced/Non-invention);

B01F17/00 B05D1/02 B32B1/00 B32B5/16 B32B9/00 C01B3/00

C01B31/00 C08F2/00 C08K3/00 C08L91/00 C09K8/02 H01B1/04

H01B1/24 H01M4/58 H05K1/09 (Core/Invention)

International (IPC 1-7): C01B31/04

CPC: C01B2204/32 H01G4/206 H05K1/095 H05K3/0091 H05K3/10

H05K2201/0323 B82Y30/00 B82Y40/00 Y02E60/324 Y10T428/13

Y10T428/1341 Y10T428/1379 Y10T428/2982 Y02E60/325

Y02E60/328 C01B32/192 C01B32/225 C01B32/23

European: C01B31/04F Y02E60/32F2 Y02E60/32F6

US: 106/266 106/266S 106/31.9 152/451 174/257 174/260 252/500
 252/500P 252/510 252/510S 361/502 361/790 423/415.1
 423/415.100P 423/415.100S 423/448 423/448P 423/448S 427/457
 427/457S 427/483 427/98.4 427/98.400S 428/219 428/219P
 428/219S 428/34.1 428/34.100P 428/34.100S 428/35.4 428/35.400P
 428/36.6 428/36.600S 428/402 428/402P 429/231.8 429/231.800P
 502/400 502/402 502/416 507/138 507/138P 508/113 516/32
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PatBase - US2007092432_AA

Patent Application Publication Apr. 26, 2007 Sheet 1 of 22 105 2007/092432 A1

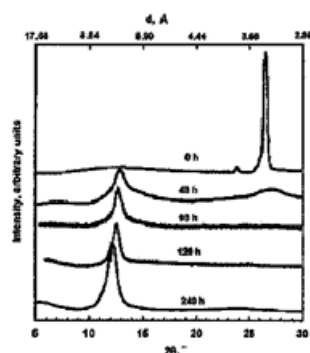


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
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CA2623451 C	20140121	CA20062623451	20061003
CN101287679 A	20081015	CN200680038183	20061003
CN101287679 B	20121205	CN200680038183	20061003
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EP1934139 A4	20130529	EP20060836165	20061003
IN02672DN2008 A	20080725	IN2008DN02672	20080331
IN280041 B	20170210	IN2008DN02672	20080331
JP2009511415 T2	20090319	JP20080535562T	20061003
JP5198272 B2	20130515	JP20080535562T	20061003
KR101472592 B1	20141215	KR20087009095	20061003
KR20080059571 A	20080630	KR20087009095	20061003
TW200732251 A	20070901	TW20060137809	20061013
TWI412492 B	20131021	TW20060137809	20061013
US2007092432 AA	20070426	US20050249404	20051014
US2008302561 AA	20081211	US20080194030	20080819
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US2008312368 AA	20081218	US20080194007	20080819
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US2009053437 AA	20090226	US20080194043	20080819
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US2009054581 AA	20090226	US20080194037	20080819
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US2009127514 AA	20090521	US20080208692	20080911
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US2015173188 AA	20150618	US20140515019	20141015
US2017318672 AA	20171102	US20170459973	20170315
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US8048214 BB	20111101	US20080194030	20080819
US8048931 BB	20111101	US20080194054	20080819
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US10057986 BB	20180821	US20170459973	20170315
WO07047084 A2	20070426	WO2006US38476	20061003
WO07047084 A3	20070607	WO2006US38476	20061003

Priority:

US20050249404 20051014 WO2006US38476 20061003 US20080194007 20080819
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Probable Assignee: TRUSTEES OF PRINCETON UNIV

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Assignee(s): TRUSTEES OF PRINCETON UNIVERSITTY ; THE TRUSTEES OF PRINCETON UNIVERSITY ; PRINCETON UNIV ; NATIONAL SCIENCE FOUNDATION ; NASA ; TRUSTEES OF PRINCETON UNIVERSITY ; THE TRUSTEES OF PRINCETON UNIVERSITY ; TRUSTEES OF PRINCETON UNIV ; ADMINISTRATOR OF NATIONAL AERONAUTICS AND SPACE AD ; ADMINISTRATOR OF NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AS US GOV

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Inventor(s): AKSAY ILHAN ; PRUD HOMME ROBERT ; PRUD'HOMME ROBERT K ; IIHAN A AKSAY ; ROBERT K PRUD HOMME

Agent(s): GOWLING LAFLEUR HENDERSON LLP; GOULARD SOPHIE ET AL; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP; OBLON MCCLELLAND MAIER AND NEUSTADT LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW 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 MG MK ML MN MR 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

5) Family number: 22968706 (FR1295011A)

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Title: COLORATION OU TEINTURE DE TISSUS DE STRUCTURE SUPERFICIELLE DIFFERENTE COLOUR DYE OR TISSUE DIFFERENT SURFACE STRUCTURE (Machine translation)

Abstract: Source: FR1295011A [FR] (Claim 1) 1 On ajoute a la dispersion des particules de pigment charge anioniquement avant l'application aux tissus, un agent flocculant cationique organique du type de la chitine desacetylee; des poial- coyi- poiyaamines; des produits reactionnels poial- coyi-polyamine acide gras; des fixateurs de colorant condensas amino aldehyde; du methyli-chlorure quaternaire de l'amide d'acide stearique de la 1- (2-aminoethyl) 2-heptadecenyl - 2 - imidazoiine; des emulsions du type huile fluide dans eau de polyethylene de bas poids moleculaire stabilisees chimiquement avec un derive acetate d'amine ca- tionique d'un compose gras a chaine longue; des fixateurs de colorant formaldéhyde-dicyandiamide; des produits reactionnels resinoux thermo-dureis- sables cationiques colloïdaux d'amines poly-fonctionnelles a chaine droite et d'un aldehyde; ou d'un melange de ces agents, en quantite propre a effectuer la flocculation d'au moins une partie des particules de pigment charge anioniquement dans la dispersion et on applique la dispersion resultante aux tissus pour effectuer la teinture des surfaces lâchement tissees au moyen des particules de pigment flocculees;

Machine translation: (Claim 1) 1 is added to the dispersion of pigment particles anionically charge before application to tissues, a flocculant cationic organic picnic type deacetylated chitin; poial-of-coyi poiyaamines; of reaction products poial coyi polyamine-fatty acid; scavengers colorant condensate amino aldehyde, the methyl-chloride quaternary stearic acid amide of 1 - (2-aminoethyl) 2-heptadecenyl - 2 - imidazoiine; emulsions of oil-water fluid in low molecular weight polyethylene chemically stabilized with an amine derivative acetate cationic consists of a long chain fatty; dye fixatives formaldehyde-dicyandiamide; resinous reaction products of thermo-sands dureis cationic colloidal poly-functional amine-tional straight chain and an aldehyde, or a mixture of these agents, a clean amount carried flocculation kill at least some of the pigment particles by charge in the anionically dispersion and the resulting dispersion is applied to the tissues to perform dyeing surfaces loosely woven in average particle pigment flocculated

Classifications:

International (IPC 8-9): D06P1/44 (Advanced/Invention);

D06P1/44 (Core/Invention)

International (IPC 1-7): D06P3/60

CPC: D06P1/44

European: D06P1/44

Family:

Publication number	Publication date	Application number	Application date
FR1295011 A	19620601	FR19610862910	19610525

Priority:

FR19610862910 19610525

Probable Assignee: UNITED MERCHANTS AND MFG

Assignee(s): (std): UNITED MERCHANTS AND MFG

Assignee(s): UNITED MERCHANTS AND MANUFACTURERS INC

6) Family number: 22977842 (US3342261A)

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Title: METHOD FOR RECOVERING OIL FROM SUBTERRANEAN FORMATIONS

Abstract: (Claim 1) 1. In a process for recovering oil from a subterranean formation penetrated by at least one injection well and one production well in which the formation is successively fractured to establish fluid communication between the injection well and the production well and subjected to a recovery operation conducted coextensive with the fracture to recover oil from the formation adjacent the fracture until said adjacent formation is substantially depleted of oil whereupon the fracturing and recovery steps are repeated, the improvement which comprises disposing a tenacious foam in the oil depleted fracture prior to initiating subsequent fracturing and recovering steps.

Classifications:

International (IPC 8-9): E21B43/17 E21B43/243 E21B43/26 (Advanced/Invention);

E21B43/16 E21B43/25 (Core/Invention)

International (IPC 1-7): E21B43/26

CPC: E21B43/17 E21B43/243 E21B43/261

European: E21B43/17 E21B43/243 E21B43/26P

US: 166/271 166/283 166/305.1 166/308.6 166/309

Family:

Publication number	Publication date	Application number	Application date
US3342261 A	19670919	US19650452336	19650430

Priority:

US19650452336 19650430

Probable Assignee: UNION OIL CO

Assignee(s): (std): UNION OIL CO

Assignee(s): UNION OIL CO OF CALIFORNIA ; UNION OIL COMPANY OF CALIFORNIA

Inventor(s): (std): BOND DONALD C

7) Family number: 53798879 (US2013130942A)

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Title: DISSIPATIVE SURFACTANT AQUEOUS-BASED DRILLING SYSTEM FOR USE IN HYDROCARBON RECOVERY OPERATIONS FROM HEAVY OIL AND TAR SANDS

Abstract: A water-based drilling fluid which includes an aqueous fluid and a water-soluble dissipative surfactant composition is described, wherein the dissipative surfactant composition includes at least one fatty acid or ester derivative of a plant or vegetable oil. Also described are methods of using such aqueous-based drilling fluids including the dissipative surfactant composition as described in hydrocarbon recovery operations associated with oil/tar sand, where such fluids act to increase the dispersant qualities of hydrocarbons within the oil/tar sand, and where such fluid exhibit a reduced coefficient of friction.

Classifications:

International (IPC 8-9): C09K8/035 C09K8/06 C09K8/08 E21B21/06 (Advanced/Invention)

CPC: C09K8/08 E21B21/062 C09K8/06 C09K2208/28 C09K8/035

US: 175/65 507/111 507/116 507/128 507/134 507/138

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Patent Application Publication May 23, 2013 Sheet 1 of 3 US 2013/0130942 A1

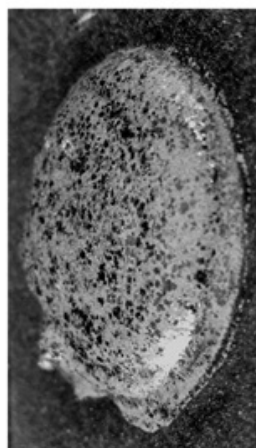


Figure 1

Family:

Publication number	Publication date	Application number	Application date
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Priority:

US20110562283P 20111121 AU20120340620 20121121 US20120683689 20121121
WO2012US66344 20121121 US20150610808 20150130 AU20150245910 20151019

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