

Primer examen de fondo

Search history

Search 1: HYDROCARBON AND drag and reduc* and oil and (acrylate or styrene) (Results 35)

Search 2: 1 and (latex or butadiene or rubber) (Results 20)

Search 3: (2) AND IPC=(C10) (Results 7)

Search 4: 2 and polymer (Results 18)

Title: METHOD AND APPARATUS FOR EXTRUDING AND FORMING PLASTIC, **RUBBER** OR **RUBBER** LIKE MATERIALS

Abstract: Source: GB878135A [EN] 878,135. Extrusion machines. ESSO RESEARCH and ENGINEERING CO. Jan. 20, 1960 [March 31, 1959], No. 2062/60. Class 87(2). Apparatus for extruding and forming plastic, **rubber** or **rubber**-like materials, e.g. into large blocks suitable for packaging, comprises (a) an extruder tube 42 of circular cross-section with a die plate closure 48 having a plurality of passageways therethrough, (b) an expansion chamber 50 connected to the die plate 48 and having interior walls 56 flaring outwardly to an outlet end 54 of rectangular cross-section of larger area than the inlet end 52, the walls 56 having roughened surfaces, and (c) a forming chamber 58 of rectangular cross-section in communication with the outlet end 54 of the expansion chamber 50 and having roughened interior surfaces adapted to be lubricated during the passage of the extrudate. The latter is in the form of a billet 32 formed as a result of the individual extruded filaments being compressed together by the pressure head built up by the **drag** on the extrudate due to the roughened, e.g. corrugated, walls 56. Lubricant, e.g. an aqueous solution of a soap or detergent, is supplied to the forming chamber 58 by pump 72 through pipe 70, internal passages 64, and wall perforations 68 in order to give the billet surface a well finished and polished appearance. The billet 32 then passes over a roller table support 72a beneath a speed sensing device, Fig. 6, comprising a frame 80 carrying a pair of knurled edge wheels 82 which run on the upper surface 36 of the billet and drive an induction generator 86 via a speed changer 84 to produce a voltage signal having a magnitude which corresponds to the linear speed of the billet. This voltage is transmitted to a comparator means in which it is matched against a voltage similarly generated and corresponding to the linear speed of slot conveyer belts 92, 94 and 98 which form a four-sided conveyer means, the difference or error voltage, amplified as necessary, being used to regulate the speed of a motor 90 which drives the conveyer belts and also the carriage 102 of the block cut-off device 28 described below. During its passage from the outlet of forming chamber 58 to the slot conveyer means, elevated temperature so that it may be necessary to apply slight compression to all four surfaces of the billet 32 to reform its cross-section to the size and shape that it had on leaving the chamber 58. The slot elements should be smooth to the order of buffed and polished stainless steel. The block cut-off device 28 which follows is mounted on a platform 100 and comprises a carriage 102 reciprocable by means of a crank and connecting rod mechanism, the crank being driven from the drive shaft of belt 94 by a sprocket chain 106. Supported on and extending above carriage 102 are stanchions 122 which guide the cutter knife 128, this being driven by a piston rod, (not shown), extending from the cylinder 130. As the billet 32 moves forward, it contacts the arm 136 of switch 134 which, after a delay period, causes the crank-shaft to turn and the connecting rod 104 to move the carriage 102 along platform 100. After about 80 degrees of crank-shaft rotation when the carriage 102 and the billet 32 are moving at the same speed, a rotary programmer meshed with a gear on the crank-shaft acts to cause the knife 128 to descend and, after remaining at the bottom of its stroke for 2-3 seconds, is caused to retract. The retraction of the knife 128 occurs after about 120 degrees of crank-shaft rotation and during the remaining 60 degrees before the carriage 102 ends its forward movement, the billet 32 is travelling faster than the carriage 102 and is thus able to push the product block 38 along an inclined portion of the upper roller surface of the carriage 102.

Classifications:

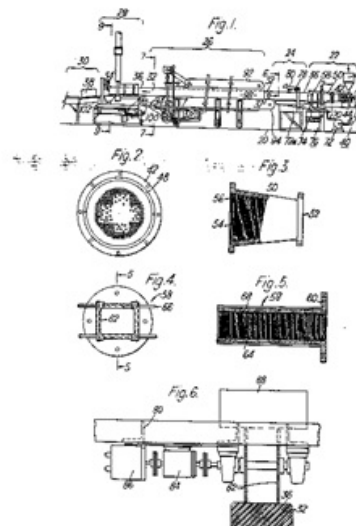
International (IPC 8-9): B29C47/00 B29C47/94 (Advanced/Invention);
B29C47/00 B29C47/08 (Core/Invention)

International (IPC 1-7): B29F3/00

CPC: B29C47/0023 B29C47/00 B29C47/94

European: B29C47/00 B29C47/94

PatBase - GB878135_A



Family:

Publication number	Publication date	Application number	Application date
GB878135 A	19610927	GB19600002062	19600120

Priority:

19590331

Probable Assignee: EXXON RESEARCH ENGINEERING CO

Assignee(s): (std): EXXON RESEARCH ENGINEERING CO

Assignee(s): ESSO RESEARCH AND ENGINEERING CO ; ESSO RESEARCH AND ENGINEERING COMPANY

Title: **DRAG REDUCING** FORMULATIONS

Abstract: Source: US3736288A [EN] ABSTRACT OF THE DISCLOSURE This invention relates to improved hydrodynamic **drag reducing** formulations which comprise (a) particulate ethylene oxide **polymer**, (b) an inert, normally-liquid, water-miscible organic vehicle which is a non-solvent for said ethylene oxide **polymer** such as propylene glycol, (c) a suspending agent which is non-reactive with said ethylene oxide **polymer** and said organic vehicle such as colloidal silica, and (d) a surface active agent. The use of the surface active agent results in systems which are characterized by their improved handling characteristics such as fluidity, pumpability, and/or pourability. Though the viscosity of the system is significantly decreased, the hydrodynamic **drag** deduction efficiency characteristic remains practically unaffected. Moreover, at such decreased viscosity levels one can now increase, to a significant extent, the concentration of ethylene oxide **polymer** in the system and still maintain a viscosity level which is no greater than comparable systems formulated without a surface active agent. This application is a continuation-in-part of copending application Ser. No. 118,442 entitled **Drag Reducing** Systems Comprising Ethylene Oxide **Polymers** by J. J. Stratta, et al., filed Feb. 24, 1971.

Classifications:

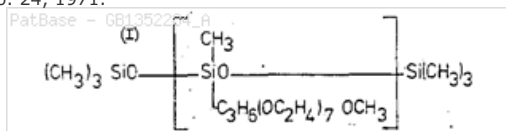
International (IPC 8-9): B65G53/30 C08L71/02 (Advanced/Invention); B65G53/00 C08L71/00 (Core/Invention)

International (IPC 1-7): B01J1/00 C08G43/00 C08G51/04 C08G51/34 C08L71/02 C09K3/00 F17D1/16

CPC: Y10T137/0391 B65G53/30 C08L71/02

European: B65G53/30 C08L71/02

US: 137/13 523/175 524/612



Family:

Publication number	Publication date	Application number	Application date
CA973866 A1	19750902	CA19720143260	19720529
DE2208519 A1	19720921	DE19722208519	19720223
DE2233338 A1	19730118	DE19722233338	19720707
DE2233338 B2	19770922	DE19722233338	19720707
DE2233338 C3	19780608	DE19722233338	19720707
GB1352284 A	19740508	GB19720031916	19720707
US3736288 A	19730529	US19710161280	19710709

Priority:

US19710118442 19710224 US19710161280 19710709

Probable Assignee: UNION CARBIDE CORP

Assignee(s): (std): UNION CARBIDE CORP

Assignee(s): UNION CARBIDE CORP NEW YORK N Y V ST A ; UNION CARBIDE CORP US ; BARRERE JOHN A ; FRANK CARL W ; 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 ; STRATTA JULIUS J

Inventor(s): (std): BARRERE J ; BARRERE JOHN A JR ; BARRERE JUN JOHN ANDREW ; FRANK C ; FRANK CARL W ; FRANK CARL WILLIAM ; STRATTA J ; STRATTA JULIUS J ; STRATTA JULIUS JOHN

Inventor(s): STRATTA JULIUS JOHN NEW CITY ; STRATTA J US ; FRANK CARL WILLIAM WHITE PLAINS ; FRANK C US ; BARRERE JUN JOHN ANDREW VALLEY COTTAGE ; BARRERE JUN ; BARRERE J US ; BARRERE JOHN A

Title: GELATINOUS ELASTOMER COMPOSITIONS AND ARTICLES FOR USE AS FISHING BAIT

Abstract: Source: US2002188057A [EN] A soft gelatinous elastomer composition and article useful as fishing bait formed from one or a mixture of two or more of a poly(**styrene**-ethylene-butylene-**styrene**) block copolymer(s) and one or more plasticizers being in sufficient amounts to achieve a gel rigidity of from about 20 gram Bloom to about 800 gram Bloom

Classifications:

International (ipc 8-9): A01K84/00 A01K85/00 A01K85/01 A01K97/04 A01N15/00 A01N25/00 A23L1/00 A23L1/05 A23L1/317 A23L1/325 A23L13/60 A23L17/00 A23L29/20 A46B1/00 A46B9/04 A47C17/00 A47C27/00 A47C7/00 A61B18/20 A61B19/00 A61C15/00 A61C15/04 A61F2/06 A61F2/78 A61F2/80 A61F9/007 A61F9/008 A61K31/70 A61K47/00 A61M5/00 A61M5/158 A63H1/32 A63H27/18 A63H33/18 B01D61/38 B21D26/02 B21D26/055 B21D37/20 B29C67/20 B32B27/00 B32B27/22 B32B27/30 B60K28/00 B60K3/00 B60R21/16 B60R21/26 B60R22/00 B61C15/00 B63B11/04 B63B9/08 B68G11/04 B68G5/00 C08F1/28 C08F175/00 C08F297/04 C08J5/02 C08K3/00 C08K5/01 C08K5/24 C08L1/00 C08L23/16 C08L25/10 C08L51/00 C08L53/00 C08L53/02 C08L53/05 C08L9/00 C09D11/02 C09J153/02 C09J7/02 C10G1/04 C21D8/02 C22C38/42 C22C38/48 C22C38/50 C22C38/54 C22C38/56 G01N33/56 G01N33/57 H02N1/00 H02N2/00 (Advanced/Invention);

A61F2/78 A61M5/31 C08L101/00 (Advanced/Non-invention);

A01K85/00 A01K85/01 A01K97/04 A01N25/00 A23L1/05 A23L1/317 A23L1/325 A47C17/00 A47C27/00 A47C7/00 A61B18/20 A61B19/00 A61C15/00 A61F2/06 A61F2/50 A61F9/007 A61K31/70 A61K47/00 A61M5/00 A61M5/14 A63H1/00 A63H33/00 B01D61/38 B21D26/00 B21D37/20 B29C67/20 B32B27/00 B32B27/22 B32B27/30 B60K28/00 B60K3/00 B60R21/16 B60R21/26 B60R22/00 B63B11/00 B63B9/00 B68G5/00 C08F297/00 C08K3/00 C08K5/00 C08L1/00 C08L23/00 C08L25/00 C08L51/00 C08L53/00 C08L9/00 C09D11/02 C09J153/00 C09J7/02 C10G1/00 C21D8/02 C22C38/42 C22C38/48 C22C38/50 C22C38/54 C22C38/56 G01N33/56 G01N33/57 H02N1/00 H02N2/00 (Core/Invention);

A61F2/50 A61M5/31 C08L101/00 (Core/Non-invention)

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CPC: A01K85/00 C08L23/06 C08L23/30 A61F2/7812 A61F2/80 A01K85/01 B60R2021/23504 Y10S297/01 Y10S297/04 A61K8/8117 A61K8/90 A61K2800/87 A61Q11/00 Y10S5/909 A46B9/005 A46B9/065 A46B15/0014 C08L2205/035 A01K97/045 A61K8/042 B01D61/38 C21D8/0226 C22C38/42 C22C38/48 C22C38/50 C22C38/54 C22C38/58 Y10T428/2998 C10G1/04 Y10T428/2938 Y10T428/298 A63H1/32 Y10T428/169 Y10T428/1334 A61M2005/3109 C08L101/005 C08L2205/06 Y10T428/31909 Y10T428/31931 Y10T428/31645 Y10T428/31696 Y10T428/31989 Y10T442/20 Y10T442/2025 Y10T442/2213 A61C15/00 B21D26/055 B32B27/00 C08F297/04 C09J153/02 A63H33/185 A61F2/7843 C08F297/02 C08F297/04 C08L23/02 C08L53/00 C08L53/02 C08L73/00 C08L75/00 C08L9/00 G02B5/04 G02B6/00 H02N1/00

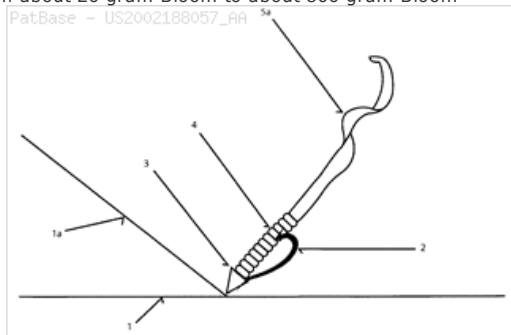
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US: 128/112.1 128/113.1 128/117.1 128/206.12 128/206.21 128/408 128/857 132/308 132/321 132/323 132/329 135/68 135/71 135/72 135/82 15/104.002 15/104.2 15/110 15/167.1 15/207.2 15/210.1 15/214 15/40.02 174/137A 174/137B 180/271 2/2.11 2/2.15 2/2.16 2/211 2/215 2/216 2/410 2/411 2/423 2/424 2/428 2/455 2/456 2/457 2/458 2/54 2/69 2/79 204/606 204/607 264/109 264/113 264/122 264/211.13 264/46.4 264/464 264/53 280/728.1 280/728.2 280/740 280/741 280/742 280/742P 297/391 297/392 297/394 297/397 297/411.2 297/423.1 297/DIG.1 297/DIG.4 310/309 310/309P 36/153 36/37 36/43 385/144 424/401 424/401P 424/405 424/405P 424/439 424/439P 424/448 424/84 426/1 426/573 427/162 428/301.4 428/308.4 428/319.3 428/319.7 428/319.9 428/35.2 428/352 428/378 428/401 428/407 428/441 428/462 428/515 428/52 428/521 428/537.1 428/688 43/26.2 43/35 43/42 43/42.24 43/42.26 43/42.32 43/42.33 43/42.34 43/42.35 43/43.33 433/216 44/271 441/102 441/102S 442/59 442/62 442/85 442/85P 446/253 446/254 446/34 446/385 446/46 446/48 446/486 446/490 446/491 446/61 446/62 446/66 5/632 5/636 5/640 5/652 5/653 5/654 5/655.5 5/655.9 5/724 5/909 52/447.4 521/139 521/140 521/148 521/50 521/54 523/105 523/113 523/218 523/218S 524/187 524/226 524/232 524/261 524/270 524/271 524/272 524/274 524/275 524/277 524/284 524/313 524/315 524/366 524/375 524/379 524/394 524/399 524/400 524/450 524/474 524/476 524/481 524/484 524/485 524/486 524/487 524/490 524/491 524/505 524/507 524/508 524/513 524/515 524/543 524/543S 524/549 524/571 524/571S 524/575 524/578 524/81 524/98 525/148 525/240 525/240P 525/241 525/314 525/476 525/490 525/505 525/521 525/8 525/98 525/95 525/95 525/98 525/98 56/52 56/559 565/550 57/24 585/833 601/141 602/1 602/41 602/41P 602/61 602/62 602/63 604/262 604/263 604/269 604/408 604/410 604/411 606/16 606/16P 606/2 606/2S 623/1.11 623/1.110S 623/11 623/11.11 623/13.12 623/16.11 623/18 623/20 623/20.14 623/21.11 623/23.4 623/23.41 623/23.58 623/27 623/33 623/36 623/37 623/59 623/61 623/63 623/8 66/171 66/178R 66/184 66/185 66/187 701/45 72/60 72/63 72/709 76/107.1

Locarno class: 24/58

Family:

Publication number	Publication date	Application number	Application date
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Priority:

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US20020299073	20021118	US20020199364	20020720	US20000721213	20001121
US20020199361	20020720	US20020199362	20020720	US20020199363	20020720
US20000517230	20000302	US19990412886	19991005	US19990285809	19990401
US19990274498	19990328	WO1997US17534	19970930	WO1994US04278	19940419
WO1994US07314	19940627	US19990285809	19990328	US19990274498	19990322
WO1994US04278	19940401	US20020993361	20020720	US20030420089	20030422
US20030420489	20030422	US19990274498	19990323	US19990421886	19991005
WO1994US04278	20040419	US19990412887	19991005	US20010896047	20010630

Probable Assignee: APPLIED ELASTOMERICS INC

Assignee(s): (std): APPLIED ELASTOMERICS INC ; BOEING CO ; CHEN JOHN Y ; TOPCON CORP

Assignee(s): TOPCON KK ; THE BOEING COMPANY ; ALLIED ELASTOMERICS INC ; KABUSHIKI KAISHA TOPCON ; PATENT AND LICENSE OFFICE

Inventor(s): (std): CHEN JOHN Y ; CHEN JOHN YOUNG FU ; CHEN JOHN YOUNGFU ; IORI MOTOGI ; KAZUHISA NOMURA ; NEMOTO IORI ; NOMURA KAZUHISA ; OYAGI WATARU ; SAGEHASHI HIDEO ; WATARU OYAGI ; SANDERS DANIEL G

Inventor(s): JOHN Y CHEN ; MOTOGI IORI ; CHEN JOHN

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Designated states: AT AU BE BR CA CH CN CZ DE DK ES FI FR GB GE GR HU IE IT JP KR LU MC NL NO NZ PL PT RO RU SE US VN

Title: Antiplasticization of **polymer** complexes

Abstract: Source: US4483957A [EN] The instant invention relates to a process for increasing the viscosity of organic liquids by incorporating in said liquid a minor amount of **polymer** complex, and 1 to 1000 parts per million by volume of a cosolvent for the ionic groups of said **polymer**. The **polymer** complex comprises the reaction product of a metal neutralized sulfonated **polymer** and a **styrene**-ring pyridene copolymer, wherein the **polymer** complex is substantially soluble in said organic liquid, and pendant sulfonate groups which are substantially insoluble in said organic liquid. The cosolvent is selected because it will solubilize the pendant sulfonate groups and provide a reasonably homogeneous mixture of solvent, cosolvent and ionic **polymer**. The preferred compositions prepared by the method of the instant invention comprise an organic liquid having a solubility parameter of from 6 to 10.5 in combination with a **polymer** complex containing from 0.2 up to 10.0 mole percent sulfonate groups which has been neutralized by a basic material selected from Groups IA and IIA, IB and IIB of the Periodic Table of Elements (and also lead, tin and antimony) and 1 to 1000 parts per million by volume of a nonvolatile alcohol or amine cosolvent.

Classifications:

International (IPC 8-9): B01J13/00 B05D5/08 C08G81/00 C08J3/00 C08J3/09 C08L101/00 C08L23/32 C08L57/00 C09K3/00 C09K8/50 C09K8/82 C10L1/14 C10L1/24 C10L1/30 C10L7/02 E21B43/32 (Advanced/Invention); C10L1/14 C10L1/22 C10L1/24 (Advanced/Non-invention); B01J13/00 B05D5/08 C08G81/00 C08J3/00 C08J3/02 C09K3/00 C10L7/00 (Core/Invention); C10L1/10 (Core/Non-invention)

International (IPC 1-7): B05D5/08 C08G81/00 C08J3/00 C08J3/08 C08J3/10 C08J3/20 C08K5/01 C08K5/04 C08K5/05 C08L15/00 C08L23/32 C08L23/34 C08L39/00 C08L39/08 C08L41/00 C09K3/00 C09K7/00 C10L1/14 C10L1/24 C10L1/30 C10M3/26 C10M3/34

CPC: C08J3/09 C10L1/146 C10L1/2368 C10L1/2462 C08L23/32 C08L57/00 C08L101/00 C09K8/50 C09K8/82 E21B43/32 Y10S524/924 B05D5/08 B01J13/0082 C08J3/005 C08J3/091 C09K3/00 C10L7/02

European: B01J13/00F4 B05D5/08 C08J3/00B C08J3/09 C08J3/09B C08L101/00 C08L23/32 C08L57/00 C09K3/00 C09K8/50 C09K8/82 C10L1/14P C10L7/02 E21B43/32 M10L1/14P M10L1/236H M10L1/24P

US: 44/337 44/620 44/71 523/175 523/337 523/339 524/107 524/108 524/113 524/140 524/147 524/186 524/210 524/284 524/300 524/318 524/356 524/366 524/367 524/376 524/378 524/379 524/390 524/505 524/516 524/521 524/924 525/203 525/217

Family:

Publication number	Publication date	Application number	Application date
CA1267277 A1	19900403	CA19840466768	19841031
DE3439796 A1	19850509	DE19843439796	19841031
JP60123535 A2	19850702	JP19840232233	19841102
NO170762 B	19920824	NO19840004332	19841031
NO170762 C	19921202	NO19840004332	19841031
NO844332 A	19850503	NO19840004332	19841031
US4483957 A	19841120	US19830551106	19831114
US4497923 A	19850205	US19830547904	19831102
US4516982 A	19850514	US19830547905	19831102
US4647603 A	19870303	US19850749020	19850626
US4656204 A	19870407	US19830547929	19831102

Priority:

CA19840466768 19841031	US19830547902 19831102	US19830547902 19831102
US19850749020 19850626	US19830547955 19831102	US19830547904 19831102
US19830547929 19831102	US19830547905 19831102	US19830551106 19831114

Probable Assignee: EXXON RESEARCH ENGINEERING CO

Assignee(s): (std): EXXON RESEARCH ENGINEERING CO

Assignee(s): EXXON RESEARCH AND ENGINEERING COMPANY ; EXXON RESEARCH AND ENGINEERING COMP ; KOWALIK RALPH M ; PHILLIPS ROBERT R ; LUNDBERG ROBERT D ; PEIFFER DENNIS G ; DUVDEVANI ILAN ; ECKERT JOHN A ; ESSO RES AND ENG CO ; EXXON RESEARCH AND ENGINEERING CO ; EXXON RESEARCH AND ENGINEERING CO A CORP OF DE ; EXXON RESEARCH AND ENGINEERING CO A DE CORP

Inventor(s): (std): DENISU JII PIIFUAA ; DUVDEVANI ILAN ; ECKERT JOHN A ; IRAN DEYUBUDEBUANI ; JIYON EI EKAATO ; KOWALIK RALPH M ; LUNDBERG ROBERT D ; PEIFFER DENNIS G ; PFEIFFER DENNIS G ; PHILLIPS ROBERT R ; RARUFU EMU KOWARITSUKU ; ROBAATO AARU FUIRITSUPUSU ; ROBAATO DEI RANDOBAAGU

Inventor(s): A ECKERT JOHN ; D LUNDBERG ROBERT ; R PHILLIPS ROBERT ; M KOWALIK RALPH ; G PFEIFFER DENNIS

Agent(s): BORDEN LADNER GERVAIS LLP

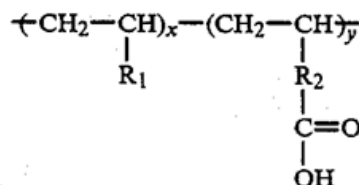
Title: Drag reduction agent for hydrocarbon liquid

Abstract: Source: US4518757A [EN] The present invention relates to improved drag reduction agents which are copolymers of an alpha olefin and a vinyl alkylencarboxylic ester.

Classifications:

International (IPC 8-9): C08F210/00 C08F210/14 C08F220/04 C08J3/02 C08L101/00 C08L21/00 C08L23/00 C08L23/02 C08L23/08 C08L33/00 C08L33/02 C08L51/00 C08L51/02 C08L7/00 C09K3/00 C10L1/14 C10L1/18 C10L1/196 (Advanced/Invention); C08F210/14 C10L1/14 C10L1/18 C10L1/22 (Advanced/Non-invention); C08F210/00 C08J3/02 C08L101/00 C08L21/00 C08L23/00 C08L33/00 C08L51/00 C08L7/00 C09K3/00 C10L1/10 (Core/Invention)
International (IPC 1-7): C08F210/00 C08F220/04 C08F220/10 C08F220/12 C08J3/02 C08K5/51 C08L23/02 C08L23/08 C08L33/00 C08L39/00 C10L1/18 C10L7/00 C10M145/12 C10N20/02 F17D1/16
CPC: C10L1/1963 C08F210/00 C08F210/14 C09K3/00 C10L1/146 C10L1/1973 C10L1/2368 Y10T137/0391
European: C08F210/00 C08F210/14 C09K3/00 C10L1/14P C10L1/196B M08F210/14 M10L1/14P M10L1/197B M10L1/236H
US: 137/13 208/370 252/8.551 44/270 44/271 44/393 44/403 507/224 507/225 507/229 524/107 524/136 524/210 524/300 524/356 524/366 524/379 524/474 524/515 524/516 524/521 524/522 524/560 524/562 525/203 525/329.5 526/158 526/329 585/3

PatBase - US4880436_A



Family:

Publication number	Publication date	Application number	Application date
CA1244194 A1	19881101	CA19840470955	19841221
DE3446781 A1	19850704	DE19843446781	19841221
JP60231709 A2	19851118	JP19840272696	19841224
NO845208 A	19850624	NO19840005208	19841221
US4518757 A	19850521	US19830565100	19831223
US4523929 A	19850618	US19840625831	19840628
US4586937 A	19860506	US19840625973	19840629
US4599377 A	19860708	US19850756834	19850719
US4621111 A	19861104	US19850803244	19851202
US4625745 A	19861202	US19850757362	19850722
US4715865 A	19871229	US19850806416	19851209
US4880436 A	19891114	US19870123393	19871120

Priority:

CA19840470955 19841221	US19830565100 19831223	US19830565106 19831223
US19830565105 19831223	US19830565159 19831223	US19830566349 19831228
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US19840625975 19840629	US19840626018 19840629	US19840626021 19840629
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US19850757362 19850722	US19870123393 19871120	US19850806416 19851209

Probable Assignee: EXXON RESEARCH ENGINEERING CO

Assignee(s): (std): EXXON RESEARCH ENGINEERING CO

Assignee(s): EXXON RESEARCH AND ENGINEERING CO ; EXXON RESEARCH AND ENGINEERING CO ; EXXON RESEARCH AND ENGINEERING COMPANY ; EXXON RESEARCH AND ENGINEERING CO A CORP OF DE ; KOWALIK RALPH M ; SCHULZ DONALD N ; LANGER ARTHUR W JR ; PEIFFER DENNIS G ; KITANO KISSHO ; ARMSTRONG WORLD IND ; ARMSTRONG WORLD IND INC PO BOX 3001 LANCASTER PA 1 ; BURKHARDT TERRY J ; DUVDEVANI ILAN ; ECKERT JOHN A ; ESSO RES AND ENG CO

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Inventor(s): J BURKHARDT TERRY ; A ECKERT JOHN ; W LANGER JUN ; W LANGER JUN ARTHUR ; M KOWALIK RALPH ; N SCHULZ DONALD ; G PEIFFER DENNIS

Agent(s): BORDEN LADNER GERVAIS LLP

Title: RAPID DISSOLVING **POLYMER** COMPOSITIONS AND USES THEREFOR

Abstract: Source: US4720397A [EN] A particulate, free-flowing and rapid dissolving **polymer** composition is prepared by comminuting a high molecular weight thermoplastic or viscoelastic **polymer** at a temperature below its glass transition temperature while maintaining the **polymer** in an inert environment. A finely divided, solid coating agent is mingled with the comminuted **polymer** while maintaining the **polymer** particles in a cold and inert atmosphere. The particles of coating agent form a protective shell around each **polymer** particle by tumble mixing the components while raising the temperature of the mixture. The **polymer** composition finds use as a **drag reducing** agent; as an anti-misting agent; to enhance the efficiency of **oil** skimming processes and devices; and for the preparation of **polymer** solutions for other uses.

Classifications:

International (IPC 8-9): B01J2/28 B05D7/00 B32B27/02 C02F1/40 C02F1/68 C08J3/09 C08J3/11 C08J3/12 C08J7/04 C08K3/34 C09K3/00 C09K3/32 C10L1/12 C10L1/14 C10L1/16 C10L1/20 E21B43/22 (Advanced/Invention); B01J2/28 B05D7/00 B32B27/02 C02F1/40 C02F1/68 C08J3/02 C08J3/12 C08J7/00 C09K3/00 C09K3/32 C10L1/10 (Core/Invention); C08J (Subclass/Invention)

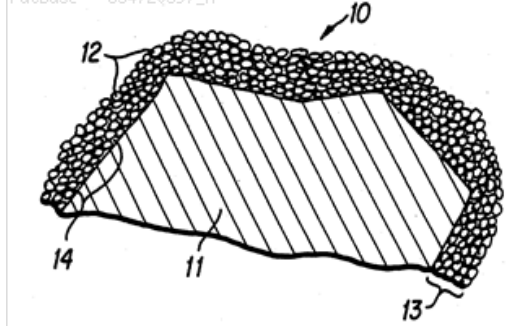
International (IPC 1-7): B01J2/28 B05D5/00 B05D5/08 B05D7/00 B32B25/16 B32B27/00 B32B27/02 C02C1/22 C02F1/40 C08J3/08 C08J3/09 C08J3/11 C08J3/12 C08J7/04 C08J7/06 C08K3/34 C08L101/00 C10L1/02 C10L1/12 C10L1/14 E02B15/04 E21B43/22

CPC: Y10S210/925 Y10T428/2998 Y10T428/2991 Y10T428/2993 C09K3/32 C02F1/681 C08J3/11 C08J3/124 C09K3/00 C10L1/1633 C10L1/207 Y10T137/0391 Y10T428/31544 Y10T428/31931

European: C02F1/68C C08J3/11 C08J3/12B C09K3/00 C09K3/32 C10L1/16P1 C10L1/20P1

US: 137/13 210/728 210/732 210/776 210/925 427/180 427/213 427/222 428/403 428/404 428/407 428/422 428/521 44/457 44/459 44/55 44/62 44/68 44/76 523/175 523/201 525/50 525/55

PatBase - US4720397_R



Family:

Publication number	Publication date	Application number	Application date
AT87511 E	19930415	AT19860900989T	19861210
AU198770214 A1	19870630	AU19870070214	19861210
AU595300 B2	19900329	AU19870070214	19861210
CA1315160 A1	19930330	CA19860534911	19861212
CA1331722 A1	19940830	CA19870550172	19871015
DE3688200 D1	19930506	DE19863688200	19861210
DE3688200 T2	19931021	DE19863688200T	19861210
DK416387 A	19871012	DK19870004163	19870811
DK416387 A0	19870811	DK19870004163	19870811
EP0289516 A1	19881109	EP19870900989	19861210
EP0289516 A4	19881208	EP19870900989	19861210
EP0289516 B1	19930331	EP19870900989	19861210
JP1500357 T2	19890209	JP19870501214T	19861210
JP2043240 C3	19960409	JP19870501214	19861210
JP7068356 B4	19950726	JP19870501214T	19861210
NO169393 B	19920309	NO19870003346	19870811
NO169393 C	19920617	NO19870003346	19870811
NO173941 B	19931115	NO19910002565	19910628
NO173941 C	19931115	NO19910002565	19910628
NO873346 A	19871012	NO19870003346	19870811
NO873346 A0	19870811	NO19870003346	19870811
NO912565 A	19871012	NO19910002565	19910628
NO912565 A0	19910628	NO19910002565	19910628
US4720397 A	19880119	US19850807947	19851212
US4758354 A	19880719	US19860918896	19861015
US4789383 A	19881206	US19870121276	19871116
US4826728 A	19890502	US19870121296	19871116
US4837249 A	19890606	US19870121295	19871116
WO8703516 A1	19870618	WO1986US02638	19861210

Priority:

CA19860534911 19861212	CA19870550172 19871015	EP19870900989 19861210
NO19870003346 19870811	US19860918896 19861015	US19850807947 19851212
WO1986US02638 19861210	US19870121276 19871116	US19870121296 19871116
US19870121295 19871116		

Probable Assignee: GEN TECH APPLIC INC

Assignee(s): (std): GEN TECH APPLIC INC

Assignee(s): GENERAL TECHNOLOGY APPLICATIONS INC ; GENERAL TECHNOLOGY APPLICATIONS INC 12343 D SUNRIS ; GENERAL TECHNOLOGY APPLICATIONS INC 12343 D SUNRISE VALLEY DRIVE RESTON VA 22091 A CORP OF VIRGINIA ; GENERAL TECHNOLOGY APPLICATIONS INC A CORP OF VA ; GENERAL TECHNOLOGY APPLICATIONS INC MANASSAS VA US ; HADERMANN ALBERT F ; O MARA DION P ; TRIPPE JERRY C

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Inventor(s): JERRY C TRIPPE ; DION P O MARA ; ALBERT F HADERMANN ; O MARA P DION VIENNA VA 22180 US

Agent(s): CALLINANS; MCCARTHY TETRAULT LLP

Designated states: AT AU BE BR CH DE DK FR GB IT JP LI LU NL NO SE SU

Abstract: Source: US5306859A [EN] Described is a novel process for regenerating an ASO contaminated alkylation catalyst containing a sulfone component and a hydrogen halide component. A sulfone-containing mixture containing ASO and which is derived by the removal of a major portion of the hydrogen halide component of the alkylation catalyst is contacted with a reversible base selected from the group consisting of polyvinyl pyridine, amine-substituted styrene divinyl benzene copolymer and mixtures thereof so as to remove at least a portion of the ASO component from the sulfone-containing mixture to thereby produce a treated sulfone-containing mixture. The treated sulfone-containing mixture can further be processed by contacting it with an absorbent material which can include carbon and alumina.

U.S. Patent Apr. 26, 1994 Sheet 1 of 3 5,306,859

[illegible]

FIG. 1

US: 502/12 502/26 585/723 585/724 585/725 585/830

Publication number	Publication date	Application number	Application date
AU199344440 A1	19940303	AU19930044440	19930805
AU652516 B2	19940825	AU19930044440	19930805
BRPI9303500 A	19940315	BR1993PI03500	19930826
CA2099359 AA	19940228	CA19932099359	19930628
CA2099359 C	19990615	CA19932099359	19930628
CN1039311 C	19980729	CN19931016784	19930826
CN1083417 A	19940309	CN19931016784	19930826
DE69311227 D1	19970710	DE19936011227	19930827
DE69311227 T2	19970918	DE19936011227T	19930827
DK0584831 T3	19970728	DK19930113748T	19930827
EP0584831 A1	19940302	EP19930113748	19930827
EP0584831 B1	19970604	EP19930113748	19930827
ES2102565 T3	19970801	ES19930113748T	19930827
FI933768 A	19940228	FI19930003768	19930827
FI933768 A0	19930827	FI19930003768	19930827
GR3024506 T3	19971128	GR19970402146T	19970821
JP3172338 B2	20010604	JP19930206520	19930820
JP6190288 A2	19940712	JP19930206520	19930820
KR100237143 B1	20000115	KR19930016355	19930821
KR19940003607 A	19940312	KR19930016355	19930821
MX9305045 A1	19940630	MX19930005045	19930819
NO301695 B1	19971201	NO19930003057	19930826
NO933057 A	19940228	NO19930003057	19930826
NO933057 A0	19930826	NO19930003057	19930826
SG43171 A1	19971017	SG19960004810	19930827
TW297782 B	19970211	TW19930106276	19930805
US5306859 A	19940426	US19930077142	19930616
ZA9305776 A	19940308	ZA19930005776	19930809

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Agent(s): PHILLIPS ORMONDE FITZPATRICK; OSLER HOSKIN AND HARCOURT LLP

Designated states: BE DE DK ES FR GB GR IT NL PT SE

Title: Multi-layer golf ball

Abstract: Source: US2001005699A [EN] The present invention relates to a golf ball that provides improved playing characteristics by providing a cushioning interface between a center and subsequent layers. The ball can include a center, a soft intermediate layer, and a cover, although various constructions and modifications are possible. The intermediate layer can include an elastomeric **latex** or solution that will dry to form a soft film on the surface of the center. Such a soft **rubber** interlayer can serve as a cushioning interface to help improve durability and softness of the ball upon club impact. In another embodiment, the thin intermediate layer includes a responsive viscoelastic composition that exhibits an increase in viscosity under shear forces.

Classifications:

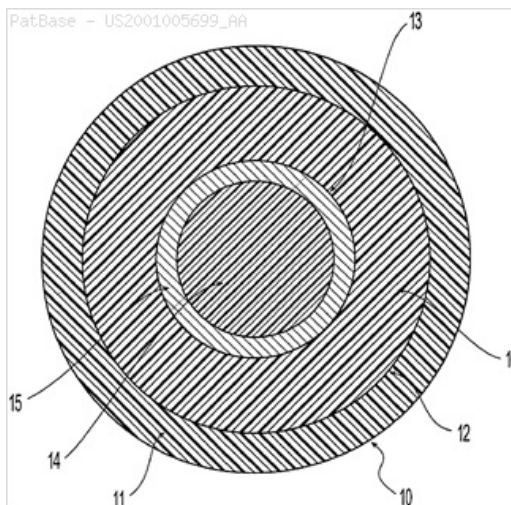
International (IPC 8-9): A63B37/00 A63B37/02 A63B37/04 A63B37/06 A63B37/12 A63B37/14 A63B69/36 B05C3/02 B05D3/12 B05D5/00 B28B11/00 B29C41/14 C08F279/02 C08G81/02 C08K5/10 C08K5/12 C08K5/521 C08L75/00 C08L75/04 (Advanced/Invention); C08K5/00 C08K5/12 (Advanced/Non-invention); A63B37/00 A63B37/02 A63B37/12 A63B37/14 A63B69/36 B05C3/02 B05D3/12 B05D5/00 B28B11/00 C08K5/00 C08L75/00 (Core/Invention); C08K5/00 (Core/Non-invention)

International (IPC 1-7): A63B37/00 A63B37/04 A63B37/06 A63B37/12 A63B37/14 A63B69/36 G01D1/00 G01P3/00 G06F11/30 G06F15/00 G06M11/04 G21C17/00

CPC: A63B37/0003 A63B37/0043 A63B37/0049 C08L75/04 A63B37/0024 A63B37/0033 C08K5/0016 C08K5/12 A63B37/0061 A63B37/0094 A63B2043/001 A63B37/0037 A63B37/0052 A63B37/0054 A63B37/0056 A63B37/0092 A63B37/12 A63B37/0041 A63B37/0084 A63B37/0088 A63B37/0031 B32B25/08 B32B25/16 B32B27/00 B32B27/08 B32B27/28 B32B2250/24 C08F8/44 C08L51/04 C08L53/02 C08L53/025 C09D135/06 A63B37/0022 A63B37/005 A63B45/00 B05C3/05 B05C3/10 B05C9/14 B05C11/08 A63B37/0093 A63B37/0075 A63B37/0026 A63B37/008 A63B37/0083 A63B69/36 A63B37/0016 A63B37/0087 A63B2225/02 A63B37/0032 A63B37/0034 A63B37/0017 A63B37/003 A63B37/0045 A63B37/0064 A63B37/0076 A63B37/0078 A63B37/0096 A63B2037/0079 A63B37/0012 A63B37/0019 A63B37/0089 A63B37/009 A63B37/0004 A63B37/0006 A63B37/0018 A63B37/002 A63B37/0021 A63B37/0077

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Publication number	Publication date	Application number	Application date
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Agent(s): MIYATA MASAOKI ; SAWADA TOSHIO ; YAMADA EIJI ; ACUSHNET CO ; ACUSHNET COMPANY ; EDWARD A PENNINGTON ESQUIRE SWIDLER BERLIN LLP ; BINGHAM MCCUTCHEN LLP ; HANIFY AND KING PROFESSIONAL CORP ; SWIDLER BERLIN LLP ; LACY WILLIAM B ; WILLIAM B ; KRISTIN D ; MANDI B ; WHEELER KRISTIN D ; HANIFY AND KING PC ; MILBANK MANDI B ; LESTER TROY R ; TROY R ; MURPHY AND KING PC ; D MICHAEL ; MARGARET C

Designated states: AT AU BE CA CH CY DE DK ES FI FR GB GR IE IT JP LU MC NL NZ PT SE

Title: **Drag-reducing polymers** and suspensions thereof

Abstract: Source: US2002065352A [EN] **Hydrocarbon**-soluble **drag-reducing polymer** mixtures and suspensions thereof are described, along with processes for manufacturing both **drag-reducing polymer** mixtures and suspensions. The **drag-reducing polymer** mixtures are easily transportable, non-hazardous, easily handled, provide excellent **drag-reducing** properties, and most, if not all, solids in the **drag-reducing polymer** mixtures and suspensions impart **drag-reducing** effects. The **drag-reducing polymer** mixtures are manufactured by mixing ultra-high molecular weight soft-**polymer** with ultra-high molecular weight hard-**polymer** and grinding them below the minimum glass transition temperature. **Drag-reducing polymer** suspensions may be produced by mixing the above-described **drag-reducing polymer** mixture with a suspending fluid.

Classifications:

International (IPC 8-9): A63H27/08 C08F2/00 C08F2/02 C08F210/00 C08F212/02 C08F212/06 C08J3/00 C08K5/00 C08K5/01 C08L101/00 C08L23/24 C08L25/02 F17D1/16 F17D1/17 (Advanced/Invention); C08L1/00 C08L25/08 (Advanced/Non-invention); A63H27/00 C08F2/00 C08F2/02 C08F210/00 C08F212/00 C08J3/00 C08K5/00 C08L101/00 C08L23/00 F17D1/00 (Core/Invention); C08L1/00 C08L25/00 (Core/Non-invention)

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CPC: A63H27/08 Y10S526/902 F17D1/17 C08J3/005 C08L1/00 C08L23/24 C08L25/08 C08L101/00 C08L2205/02 Y10T137/0391

European: A63H27/08 C08J3/00B C08L101/00 C08L23/24 F17D1/17 M08L1/00 M08L205/02 M08L25/08

US: 137/13 244/153.00RS 244/153R 52/452.4 523/175 523/309 524/474 524/484 524/486 524/487 524/502 524/502S 524/503 524/503S 524/521 524/523 524/524 524/570 524/570S 524/578 526/142 526/185 526/347 526/902

PatBase - US2002065352_AA

Patent Application Publication May 30, 2002

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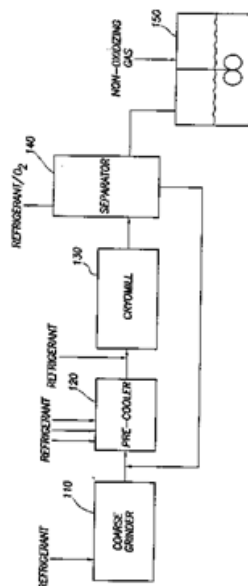


FIG. 1

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Probable Assignee: LIQUIDPOWER SPECIALTY PRODUCTS INC

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Assignee(s): CONOCO INC1000 SOUTH PINE STREETPONCA CITYOK74602-1267US ; CONOCOPHILLIPS CO600 NORTH DAIRY ASHFORDIP SERVICES GROUPATTN: DOCKETINGBUILDING ML-1065HOUSTONTX77079US ; CONOCOPHILLIPS COMPANY ; PHILLIPS 66 CO ; MILLIGAN STUART ; PHILLIPS SPECIALTY PRODUCTS INC ; PHILLIPS 66 COC/O IP SERVICES GROUPP.O. BOX 4783, MA-1135HOUSTONTX77210-4783US ; LUBRIZOL SPECIALTY PRODUCTS INC3RD FLOOR - 2000 WEST SAM HOUSTONPARKWAY SOUTHHOUSTONTX77042-3615US ; LUBRIZOL SPECIALTY PRODUCTS INC ; LIQUIDPOWER SPECIALTY PRODUCTS INC

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Inventor(s): KATRINA M LABUDE ; RAY L JOHNSTON ; SMITH KENNETH WUS ; MILLIGAN STUARTUS ; HOLMES DAVID A US ; JANA L KROTTERING ; TIMOTHY L BURDEN

Agent(s): OYEN WIGGS GREEN AND MUTALA LLP; THOMSON JAMES B

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 CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ 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 OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZM ZW

Title: PHTHALIC ACID DIAMIDE, METHOD FOR THE PRODUCTION THEREOF AND THE USE OF THE SAME AS A PESTICIDE

Abstract: Source: US2004077597A [EN] Novel phthalamides of the formula (I) in which X, Y, n, m, R<1>, R<2>, R<3>, R<4>, R<5>, R<6>, R<7>, A, a, b and c have the meanings given in the description, a process for preparing these compounds and their use for controlling pests.

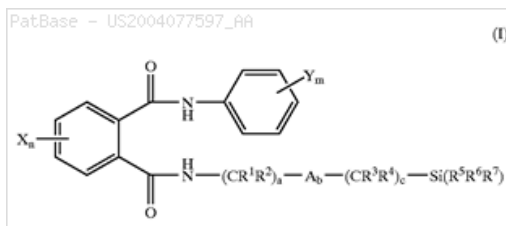
Classifications:

International (ipc 8-9): A01N55/00 A01N55/10 A01P7/04 C07F7/08 C07F7/10 C07F7/12 C07F7/18 (Advanced/Invention); A01N55/10 (Advanced/Non-invention); A01N55/00 A01P7/04 C07F7/00 (Core/Invention)

International (ipc 1-7): A01N A01N55/00 A01N55/10 C07D201/12 C07F C07F7/04 C07F7/08 C07F7/10 C07F7/18

CPC: C07F7/0818 C07F7/1836 C07F7/184 C07F7/1852 A01N55/00 **European:** A01N55/00 C07F7/08C6D C07F7/18C4B C07F7/18C4C C07F7/18C4D4C

US: 514/63 514/770 556/419



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Priority:

DE20011005169 20010206 DE20011015406 20010329 DE20025004181 20020125
WO2002EP00809 20020125 WO2002EP00809 20030724

Probable Assignee: BAYER CROPSCIENCE AG

Assignee(s): (std): BAYER AG ; BAYER CROPSCIENCE AG ; BRETSCHNEIDER THOMAS ; ERDELEN CHRISTOPH

Assignee(s): BAYER AKTIENGESellschaft

Inventor(s): (std): BRETSCHNEIDER THOMAS ; ERDELEN CHRISTOPH ; THOMAS BRETSCHNEIDER ; ERDELEN T
BRETSCHNEIDER C ; ERDELEN C ; CHRISTOPH ERDELEN ; BRETSCHNEIDER T

Inventor(s): C ERDELEN ; T BRETSCHNEIDER C ERDELEN ; T BRETSCHNEIDER

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; HITOSHIO AKIO; TSUBOKURA MICHIAKI;
ONO MAKOTO; OSAKI KATSUMASA; KAWAGUCHI YOSHIO

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 CO CR CU CY CZ DE DK
DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ 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 OM PH PL PT RO RU SD
SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Title: WET-SKIN TREATMENT COMPOSITIONS

Abstract: Source: US2003180243A [EN] The invention provides wet skin treatment compositions for use during bathing. The compositions are activated by water and retained efficiently on skin. The compositions impart desirable benefits to skin, are perceived to absorb quickly on wet skin, and leave the skin feeling clean, but non-greasy.

Classifications:

International (IPC 8-9): A61K8/06 A61K8/92 A61K9/107 A61Q19/00 (Advanced/Invention);

A61Q17/04 A61Q19/02 (Advanced/Non-invention);

A61K7/11 A61K8/00 A61K8/04 A61K8/92 A61Q19/00 (Core/Invention);

A61Q17/04 A61Q19/02 (Core/Non-invention)

International (IPC 1-7): A61K7/06 A61K7/11 A61K7/135 A61K7/40 A61K7/42 A61K7/46 A61K7/48 A61K8/00 A61K9/107

CPC: Y10S514/844 Y10S514/847 Y10S514/938 A61K8/92 A61K8/068 A61Q17/04 A61Q19/00 A61Q19/02

European: A61K8/06C A61K8/06M A61K8/92 A61Q19/00 K61Q17/04 K61Q19/02

US: 424/401 424/401S 424/59 424/59P 424/62 424/62S 424/70.1 424/70.100S 424/70.12 424/70.120P 514/844 514/847 514/938

Family:

Publication number	Publication date	Application number	Application date
AT420622 E	20090115	AT20020787959T	20021218
AU2002352258 AA	20030730	AU20020352258	20021218
BRPI0215551 A	20041221	BR2002PI15551	20021218
BRPI0215551 B1	20141014	BR2002PI15551	20021218
DE60230921 D1	20090305	DE20026030921	20021218
EP1465588 A1	20041013	EP20020787959	20021218
EP1465588 B1	20090114	EP20020787959	20021218
EP1465588 B8	20090603	EP20020787959	20021218
MXPA04006930 A1	20041206	MX2004PA06930	20021218
MY129461 A	20070430	MY20030000108	20030114
TH33643 B	20120828	TH20021004836	20021225
TH62678 A	20040630	TH20021004836	20021225
US2003180243 AA	20030925	US20020050280	20020116
US2003190296 AA	20031009	US20030425206	20030429
US6645511 BB	20031111	US20020050280	20020116
US6716440 BB	20040406	US20030425206	20030429
WO03059311 A1	20030724	WO2002EP14557	20021218
WO03059311 B1	20031211	WO2002EP14557	20021218

Priority:

US20020050280 20020116 US20030425206 20030429 WO2002EP14557 20021218

Probable Assignee: UNILEVER HOME AND PERSONAL CARE USA DIVISION OF CONOPCO INC

Assignee(s): (std): LEVER HINDUSTAN LTD ; UNILEVER HOME AND PERSONAL CARE ; DIVISION OF CONOPCO INC ; UNILEVER PLC ; UNILEVER NV

Assignee(s): UNILEVER N V ; HINDUSTAN LEVER LIMITED ; HINDUSTAN LEVER LTD ; UNILEVER HOME AND PERSONAL CARE U SA ; UNILEVER HOME AND PERSONAL CARE USA ; UNILEVER HOME AND PERSONAL CARE USA DIVISION OF CO ; UNILEVER HOME AND PERSONAL CARE USA DIVISION OF CONOPCO INC

Inventor(s): (std): ARONSON MICHAEL ; ARONSON MICHAEL PAUL ; MICHAEL PAUL ARONSON ; TSAUR LIANG ; TSAUR LIANG SHENG

Inventor(s): LIANG SHENG TSAUR

Agent(s): JAMES HELEN SARAH ET AL

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 CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ 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 OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

Title: OPTICALLY ACTIVE PHTHALAMIDES

Abstract: Source: US2009118375A [EN] Novel optically active phthalamides of the formula (I) in which A, q, R¹, R², E¹, E², X, m, Y, n and Z are as defined in the description, processes for preparing these compounds and their use for controlling pests.

Classifications:

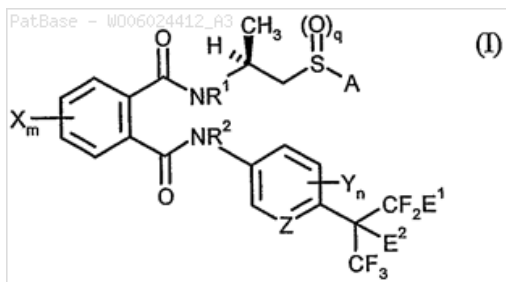
International (IPC 8-9): A01N37/18 A01N37/30 A01N41/02 A01N41/10 A01P7/00 A01P7/02 A01P7/04 C07C209/74 C07C211/46 C07C211/52 C07C315/02 C07C317/26 C07C317/28 C07C319/20 C07C321/20 C07C323/25 C07C323/42 (Advanced/Invention); A01N37/30 A01N41/02 C07C211/46 C07C323/42 (Advanced/Non-invention); A01N37/18 A01N37/30 A01N41/00 A01P7/00 A01P7/02 A01P7/04 C07C209/00 C07C211/00 C07C315/00 C07C317/00 C07C319/00 C07C321/00 C07C323/00 (Core/Invention); A01N A01P C07C (Subclass/Invention)

International (IPC 1-7): A01N43/40 C07C317/26 C07D213/04

CPC: C07C211/52 A01N37/30 A01N41/10 C07C317/28 C07C323/42

European: A01N37/30 A01N41/10 C07C211/52 C07C317/28 C07C323/42

US: 514/616 564/154 564/412 564/442



Family:

Publication number	Publication date	Application number	Application date
AU2005279429 AA	20060309	AU20050279429	20050820
AU2005279429 BB	20101028	AU20050279429	20050820
BRPI0514748 A	20080624	BR2005PI14748	20050820
CN101048370 A	20071003	CN200580036824	20050820
CN101048370 B	20101117	CN200580036824	20050820
EP1789382 A2	20070530	EP20050791242	20050820
IN01434DN2007 A	20070803	IN2007DN01434	20070222
IN251118 B	20120302	IN2007DN01434	20070222
JP2008511565 T2	20080417	JP20070528708T	20050820
JP4977607 B2	20120718	JP20070528708T	20050820
KR20070054700 A	20070529	KR20077006898	20070327
TW200621151 A	20060701	TW20050129574	20050830
US2009118375 AA	20090507	US20050661091	20050820
WO06024412 A2	20060309	WO2005EP09018	20050820
WO06024412 A3	20060427	WO2005EP09018	20050820
ZA200701651 A	20080528	ZA20070001651	20070226

Priority:

EP20040020618 20040831 EP20050791242 20050820 WO2005EP09018 20050820

Probable Assignee: BAYER CROPSCIENCE AG

Assignee(s): (std): FISCHER RUDIGER ; FISCHER RUEDIGER ; FUNKE CHRISTIAN ; MALSAM OLGA ; LOESEL PETER ; GOERGENS ULRICH ; TOHNISHI MASANORI ; YAMAGUCHI MINORU ; HARAYAMA HIROTO ; FUJIOKA SHINSUKE ; GORGENS ULRICH ; LOSEL PETER ; TOHNISCHI MASANORI ; ARNOLD CHRISTIAN ; BAYER CROPSCIENCE AG

Assignee(s): BAYER CROPSCIENCE AKTIENGESELLSCHAFT

Inventor(s): (std): FUJIOKA SHINSUKE ; FUNKE CHRISTIAN ; GOERGENS ULRICH ; GORGENS ULRICH ; HARAYAMA HIROTO ; LOESEL PETER ; LOSEL PETER ; MALSAM OLGA ; PETER LOESEL ; RUEDIGER FISCHER ; TOHNISCHI MASANORI ; TOHNISHI FISCHER RUEDIGER FUNK ; TOHNISHI MASANORI ; ULRICH GOERGENS ; YAMAGUCHI MINORU ; ULRICH GORGENS ; SHINSUKE FUJIOKA ; PETER LOSEL ; OLGA MALSAM ; MINORU YAMAGUCHI ; MASANORI TOHNISHI ; HIROTO HARAYAMA ; ARNOLD CHRISTIAN ; FISCHER RUDIGER ; FISCHER RUEDIGER ; DIGER FISCHER R ; CHRISTIAN FUNKE ; CHRISTIAN ARNOLD ; GEORGENS ULRICH

Inventor(s): FISCHER RUEDIGER FUNKE CHRISTIAN MALSAM OLGA... ; FISCHER R³DIGER ; FISCHER R DIGER ; RUEDIGER FISCHER

Agent(s): DAVIES COLLISON CAVE PTY LTD; DAVIES COLLISON CAVE; STERNE KESSLER GOLDSTEIN AND FOX PLLC

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 HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: **DRAG REDUCTION** OF ASPHALTENIC CRUDE **OILS**

Abstract: Source: US2008149530A [EN] A system for **reducing** pressure drop associated with the turbulent flow of asphaltenic crude **oil** through a conduit. The crude **oil** has a high asphaltene content and/or a low API gravity. Such **reduction** in pressure drop is achieved by treating the asphaltenic crude **oil** with a high molecular weight **drag reducing polymer** that can have a solubility parameter within about 20 percent of the solubility parameter of the heavy crude **oil**. The **drag reducing polymer** can also comprise the residues of monomers having at least one heteroatom.

Classifications:

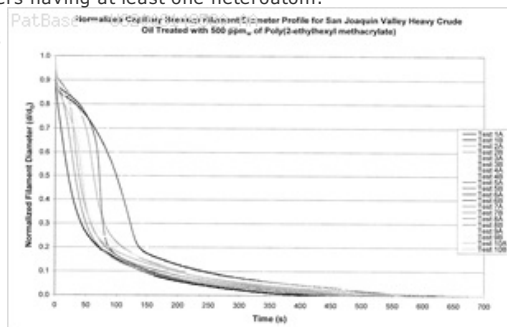
International (IPC 8-9): B05D5/08 C08F20/00 C08F20/10 C08F20/18 C08F220/18 C08J3/205 C08J3/21 C08L21/02 C08L33/10 C08L95/00 C09K3/00 C09K8/58 C09K8/588 C10C1/00 C10G75/04 C10M107/28 C10M141/00 C10M141/10 C10M145/14 F04B37/18 F15D1/00 F15D1/02 F17D1/00 F17D1/16 F17D1/17 F17D3/12 (Advanced/Invention); C10M145/14 (Advanced/Non-invention); C10C1/00 C10M141/00 (Core/Invention)

International (IPC 1-7): C10C1/00

CPC: C10M145/14 Y10S507/935 Y10T137/0324 Y10T137/2082 Y10T137/8158 Y10T137/86171 F17D1/17 C09K3/00 C10G75/04 C10G2300/206 C10G2300/308 C08F20/10 C08F20/18 C08F220/18 F17D1/16 C09K2208/28 Y10T137/0391

European: C10G75/04 F17D1/17 M10G300/20A4B M10G300/30F US: 137/13 137/13P 137/2 137/551 137/551S 137/565.35 137/807

208/22 208/23 208/298 208/39 208/40 208/40P 208/44 406/105 406/43 406/46 406/47 406/48 406/93 507/103 507/117 507/118 507/119 507/120 507/121 507/203 507/212 507/219 507/221 507/224 507/225 507/226 507/935 508/469 523/149 523/175 524/543 524/556 524/560 524/561 524/59 524/62 524/63 524/64 524/67 526/328 526/328S



Family:

Publication number	Publication date	Application number	Application date
BRPI0714719 A2	20130507	BR2007PI14719	20071210
CA2657755 AA	20090114	CA20072657755	20071210
CA2657755 C	20111108	CA20072657755	20071210
CN101495606 A	20090729	CN200780028557	20071210
CN101495606 B	20130515	CN200780028557	20071210
CO6190563 A2	20100819	CO20090009366	20090202
EA021281 B1	20150529	EA20090070043	20071210
EA200970043 A1	20090630	EA20090070043	20071210
ECSP099317 A	20090630	EC2009SP09317	20090504
EP2097500 A2	20090909	EP20070865449	20071210
EP2097500 A4	20160810	EP20070865449	20071210
IN00050CN2009 A	20090529	IN2009CN00050	20090102
IN284731 B	20170707	IN2009CN00050	20090102
MX2009001075 A1	20090210	MX20090001075	20071210
PE12472008 A1	20080917	PE20080000064	20080102
US2008149530 AA	20080626	US20060615539	20061222
US2012000544 AA	20120105	US20110209119	20110812
US2012004343 AA	20120105	US20110209098	20110812
US2012004344 AA	20120105	US20110209109	20110812
US2012298209 AA	20121129	US20110208117	20110811
US2012305091 AA	20121206	US20110208139	20110811
US2013037117 AA	20130214	US20110208063	20110811
US2013037118 AA	20130214	US20110208951	20110812
US2013041094 AA	20130214	US20110208084	20110811
US2016305613 AA	20161020	US20160148332	20160506
US2018030168 AA	20180201	US20170621821	20170613
US8022118 BB	20110920	US20060615539	20061222
US8426498 BB	20130423	US20110208139	20110811
US8450249 BB	20130528	US20110208063	20110811
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US8450251 BB	20130528	US20110208117	20110811
US8616236 BB	20131231	US20110209098	20110812
US8656950 BB	20140225	US20110209109	20110812
US9676878 BB	20170613	US20110208951	20110812
US9784414 BB	20171010	US20110209119	20110812
WO08079642 A2	20080703	WO2007US86923	20071210
WO08079642 A3	20080821	WO2007US86923	20071210

Priority:

US20060615539	20061222	US20110208063	20110811	US20110208117	20110811
US20110208139	20110811	US20110208951	20110812	US20110208084	20110811
WO2007US86923	20071210	US20110209119	20110812	US20110209098	20110812
US20110209109	20110812	US20160148332	20160506	US20170621821	20170613

Probable Assignee: LIQUIDPOWER SPECIALTY PRODUCTS INC

Assignee(s): (std): BAO ZHIYI ; BURDEN TIMOTHY L ; CONOCOPHILLIPS CO ; CONOCOPHILLIPS COMPANY ; HARRIS WILLIAM F ; CONOCOPHILLIPS CO ; DREHER WAYNE R ; DREHER JR WAYNE R ; SMITH KENNETH W ; JOHNSTON RAY L ; MILLIGAN STUART N ; PHILLIPS 66 CO ; OLECHNOWICZ MICHAEL ; MILLIGAN STUART M ; PHILLIPS 66 COMPANY ; LUBRIZOL SPECIALTY PRODUCTS INC ; LIQUIDPOWER SPECIALTY PRODUCTS INC

Assignee(s): PHILLIPS 66 CO600 N. DAIRY ASHFORDIP SERVICES GROUP ML-1065HOUSTONTX77079US ; LUBRIZOL SPECIALTY PRODUCTS INC 3RD FLOOR - 2000 WEST SAM HOUSTONPARKWAY SOUTHHOUSTONTX77042-3615US ; PHILLIPS SPECIALTY PRODUCTS INC ; DREHER WAYNE R JR ; CONOCOPHILLIPS CO600 NORTH DAIRY ASHFORDHOUSTONTX77079US ; CONOCOPHILLIPS COMPANY

Inventor(s): (std): BAO ZHIYI ; BURDEN TIMOTHY L ; DREHER WAYNE R ; HARRIS WILLIAM F ; SMITH KENNETH W ; JOHNSTON RAY L ; MILLIGAN STUART N ; OLECHNOWICZ MICHAEL ; MILLIGAN STUART M ; DREHER WAYNE R JR ; DREHER JR WAYNE R

Inventor(s): SMITH KENNETH ; MILLIGAN STUART ; WILLIAM F HARRIS ; WAYNE R DREHER ; TIMOTHY L BURDEN ; STUART N MILLIGAN ; RAY L JOHNSTON ; KENNETH W SMITH ; SMITH KENNETH WUS ; MILLIGAN STUART NUS ; JOHNSTON RAY LUS ; HARRIS WILLIAM FUS ; DREHER WAYNE R JRUS ; BURDEN TIMOTHY LUS ; JOHNSTON RAY ; HARRIS WILLIAM ; DREHER WAYNE ; BURDEN TIMOTHY

Agent(s): GOWLING LAFLEUR HENDERSON LLP; ERNESTO CAVELIER; HAYES ADRIAN CHETWYND; CONOCOPHILIPS CO IP LEGAL; PHILLIPS 66 COMPANY; PHILLIPS 66 CO; PATTERSON AND SHERIDAN LLP; KELLY KAMERON D

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 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 SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: DISPERSE NON-POLYALPHAOLEFIN **DRAG REDUCING POLYMERS**

Abstract: Source: US2009111714A [EN] A **drag reducing** composition comprising at least one non-polyalphaolefin **polymer** having an average particle size in the range of from about 5 to about 800 micrometers. The non-polyalphaolefin **polymer** can initially be formed via emulsion polymerization. The initial **polymer** particles can then be at least partially consolidated and then **reduced** in size and suspended in a carrier fluid. The resulting **drag reducing** composition can be added to a **hydrocarbon**-containing fluid to decrease the pressure drop associated with the turbulent flow of the **hydrocarbon**-containing fluid through a conduit.

Classifications:

International (IPC 8-9): C08F283/00 C08J3/00 C08J3/02 C09K3/00 E21B43/00 F17D1/16 (Advanced/Invention); C08F283/00 C08J3/00 E21B43/00 (Core/Invention)

International (IPC 1-7): C08J3/00

CPC: C08J3/02 C08J2333/04 Y10T137/0391

European: C08J3/02 M08J333/04

US: 137/13 137/13P 507/90 507/90P 523/175 523/175S 524/457 524/457S

Family:

Publication number	Publication date	Application number	Application date
BRPI0807980 A2	20140624	BR2008PI07980	20080731
CA2679848 AA	20090901	CA20082679848	20080731
CA2679848 C	20130319	CA20082679848	20080731
CN101932633 A	20101229	CN200880013601	20080731
CN101932633 B	20130313	CN200880013601	20080731
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EP2190904 B1	20160210	EP20080796916	20080731
EP2457942 A1	20120530	EP20120156575	20080731
EP2752439 A1	20140709	EP20140163613	20080731
EP2752439 B1	20161019	EP20140163613	20080731
ES2566956 T3	20160418	ES20080796916T	20080731
ES2611466 T3	20170509	ES20140163613T	20080731
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IN286916 B	20170908	IN2009DN05286	20090818
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PL2752439 T3	20170531	PL20140163613T	20080731
PT2752439 T	20170127	PT20140163613T	20080731
US2009111714 AA	20090430	US20070925214	20071026
US2011023972 AA	20110203	US20100903318	20101013
US7888407 BB	20110215	US20070925214	20071026
US9783644 BB	20171010	US20100903318	20101013
WO09055114 A1	20090430	WO2008US71708	20080731

Priority:

EP20080796916 20080731 EP20140163613 20080731 US20070925214 20071026
WO2008US71708 20080731 US20100903318 20101013

Probable Assignee: LIQUIDPOWER SPECIALTY PRODUCTS INC

Assignee(s): (std): DREHER JR WAYNE R ; DREHER WAYNE R ; SMITH KENNETH W ; MILLIGAN STUART N ; JOHNSTON RAY L ; HARRIS WILLIAM F ; PHILLIPS 66 CO ; BURDEN TIMOTHY L ; CONOCOPHILLIPS CO ; LUBRIZOL SPECIALTY PRODUCTS INC ; LIQUIDPOWER SPECIALTY PRODUCTS INC

Assignee(s): LUBRIZOL SPECIALTY PRODUCTS INC HOUSTON ; LIQUIDPOWER SPECIALTY PRODUCTS INC ; CONOCOPHILLIPS COMPANY ; PHILLIPS SPECIALTY PRODUCTS INC

Inventor(s): (std): BURDEN TIMOTHY L ; DREHER WAYNE R ; HARRIS WILLIAM F ; HARRIS WILLIAM FRANKLIN ; JOHNSTON RAY L ; MILLIGAN STUART N ; SMITH KENNETH W ; WILLIAM F HARRIS ; WAYNE R DREHER ; TIMOTHY L BURDEN ; STUART N MILLIGAN ; RAY L JOHNSTON ; KENNETH W SMITH ; HARRIS WILLIAM F ; DREHER WAYDE ; DREHER JR WAYNE R

Inventor(s): BURDEN TIMOTHY L PONCA CITY ; SMITH KENNETH W TONKAWA ; MILLIGAN STUART N PONCA CITY ; JOHNSTON RAY L PONCA CITY ; HARRIS WILLIAM F PALM HARBOR ; DREHER WAYNE R JACKSON ; WAYDE DREHER

Agent(s): RIDOUT AND MAYBEE LLP; LUZ CLEMENCIA DE PAEZ; MARKS AND CLERK LUXEMBOURG LLP; TOWLER PHILIP DEAN; BRADLEY JOSEPHINE MARY; SIMPSON PAUL CHRISTOPHER; HYDEN MARTIN DOUGLAS; CARPINTERO MARIO; CONOCOPHILLIPS CO IP SERVICES GROUP ATTENTION DOCKETING; CONOCOPHILLIPS COMPANY - IP SERVICES GROUP,ATTENTION: DOCKETING; PATTERSON AND SHERIDAN LLP; JOLLY LYNDIA S

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 ZA ZM ZW

Title: NANOFUIDS AND METHODS OF USE FOR DRILLING AND COMPLETION FLUIDS

Abstract: Source: US2012015852A [EN] Nanomaterial compositions are useful for applications in drilling and completion fluids as enhancers of electrical and thermal conductivity, emulsion stabilizers, wellbore strength improvers, **drag reduction** agents, wettability changers, corrosion coating compositions and the like. These nanomaterials may be dispersed in the liquid phase in low volumetric fraction, particularly as compared to corresponding agents of larger size. Nanofluids (fluids containing nano-sized particles) may be used to drill at least part of the wellbore. Nanofluids for drilling and completion applications may be designed including nanoparticles such as carbon nanotubes. These fluids containing nanomaterials, such as carbon nanotubes, meet the required rheological and filtration properties for application in challenging HPHT drilling and completions operations.

Classifications:

International (IPC 8-9): C09K8/00 C09K8/02 C09K8/03 C09K8/035 C09K8/04 C09K8/05 C09K8/06 C09K8/26 C09K8/32 C09K8/36 C09K8/502 C09K8/58 C09K8/60 C09K8/82 C09K8/84 C09K8/92 E21B21/06 E21B43/22 H01B1/10 (Advanced/Invention); B82Y30/00 (Advanced/Non-invention)

CPC: C09K8/035 C09K8/524 C09K8/528 C09K2208/12 C09K2208/20 C09K2208/22 C09K2208/32 C09K2208/34 C09K8/03 C09K8/04 C09K8/26 C09K8/36 E21B21/06 C09K8/92 C09K8/82 E21B21/062 C09K8/34 B82Y30/00 C09K8/05 C09K8/032 C09K2208/10 C09K8/32

European: C09K8/03B M09K208/10

US: 166/305.1 507/103 507/105 507/110 507/112 507/112P 507/117 507/117S 507/118 507/118S 507/119 507/119S 507/120 507/120S 507/124 507/124S 507/125 507/125S 507/128 507/129 507/131 507/134 507/135 507/136 507/138 507/139 507/140 507/140S 507/142 507/203 507/205 507/209 507/219 507/235 507/238 507/239 507/244 507/248 507/252 507/258 507/259 507/260 507/261 507/265 507/266 507/267 507/268 507/269 977/734 977/773 977/773S 977/775 977/902

PatBase - US2012015852_AA

Patent Application Publication Jan. 19, 2012 US 2012/0015852 A1

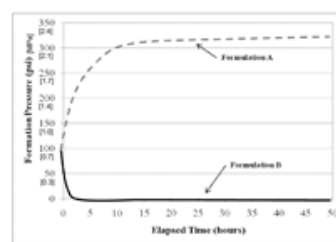


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
AU2013271988 AA	20131212	AU20130271988	20130529
EP2859060 A1	20150415	EP20130800948	20130529
EP2859060 A4	20151230	EP20130800948	20130529
GB201316784 A0	20131106	GB20130016784	20120321
GB2502928 A1	20131211	GB20130016784	20120321
MX2014014606 A1	20150305	MX20140014606	20130529
NO20131315 A	20131018	NO20130001315	20131001
US2012015852 AA	20120119	US20110166448	20110622
US2012245058 AA	20120927	US20120424549	20120320
US2012322694 AA	20121220	US20120545706	20120710
US2013261030 AA	20131003	US20130903692	20130528
US2013341028 AA	20131226	US20130974692	20130823
US2014349894 AA	20141127	US20140455222	20140808
US8822386 BB	20140902	US20110166448	20110622
WO12009128 A2	20120119	WO2011US41639	20110623
WO12009128 A3	20120426	WO2011US41639	20110623
WO12129302 A2	20120927	WO2012US29936	20120321
WO12129302 A3	20130103	WO2012US29936	20120321
WO13012704 A1	20130124	WO2012US46616	20120713
WO13012704 A4	20130530	WO2012US46616	20120713
WO13184457 A1	20131212	WO2013US43004	20130529
WO14035861 A1	20140306	WO2013US56570	20130826

Priority:

US20100359111P	20100628	US20110166448	20110622	US20110466259P	20110322
US20120424549	20120320	US20110508199P	20110715	US20120545706	20120710
US20130903692	20130528	US20120656733P	20120607	WO2012US29936	20120321
US20130974692	20130823	US20120694502P	20120829	WO2013US43004	20130529
US20140455222	20140808				

Probable Assignee: BAKER HUGHES INC

Assignee(s): (std): BAKER HUGHES INC ; BREGE JONATHAN J ; CARDENAS ANTONIO ENRIQUE ; CHAKRABORTY SOMA ; QUINTERO LIRIO ; CLARK DAVID E ; MONTEIRO OTHON ; LEONARD ASHLEY D ; MONTEIRO OTHON REGO ; CHRISTIAN CHAD F ; ELLIS DANIEL R ; CHAKRABORTY SOMA

Inventor(s): (std): BREGE JONATHAN J ; CARDENAS ANTONIA ENRIQUE ; CHAKRABORTY SOMA ; CHAKRABORTY SOMA ; CHRISTIAN CHAD F ; ELLIS DANIEL R ; LEONARD ASHLEY D ; MONTEIRO OTHON ; MONTEIRO OTHON R ; MONTEIRO OTHON REGO ; QUINTERO LIRIO ; CLARK DAVID E ; CARDENAS ANTONIO ENRIQUE

Inventor(s): OTHON MONTEIRO ; LIRIO QUINTERO ; OTHON R MONTEIRO ; DANIEL R ELLIS

Agent(s): FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; HOFFMANN BENJAMIN; MOSSMAN KUMAR AND TYLER PC; LITTLEFIELD STEPHEN A

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 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

Title: ORGANOPHOSPHORUS CONTAINING COMPOSITES FOR USE IN WELL TREATMENT OPERATIONS

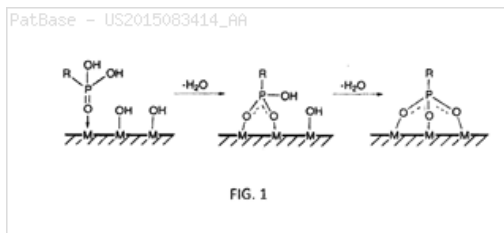
Abstract: Source: US2015083414A [EN] A composite having a solid particulate and a surface modifying treatment agent on the solid particulate wherein the surface modifying treatment agent has a hydrophobic tail and an anchor for adhering the hydrophobic tail onto the solid particulate. The anchor is an organophosphorus acid derivative. The composite may be used as a proppant in a hydraulic fracturing operation as well as a sand control particulate in a gravel packing operation. The presence of the surface modifying treatment agent on the surface of the solid particulate **reduces** the generation of fines and dust as well as the migration of sand during a hydraulic fracturing operation or a sand control operation. The presence of the surface modifying treatment agent on the surface of the solid particulate further enhances the crush resistance of the solid particulate.

Classifications:

International (IPC 8-9): C09K8/00 C09K8/524 C09K8/528 C09K8/56 C09K8/575 C09K8/58 C09K8/584 C09K8/60 C09K8/68 C09K8/72 C09K8/74 C09K8/80 C09K8/86 C9K8/58 E21B37/06 E21B41/00 E21B43/02 E21B43/14 E21B43/16 E21B43/20 E21B43/22 E21B43/24 E21B43/25 E21B43/26 E21B43/267 (Advanced/Invention); C09K8/56 (Advanced/Non-invention)

CPC: C09K8/805 E21B43/14 E21B43/267 E21B43/025 C09K8/524 C09K8/528 C09K8/68 C09K8/74 E21B43/20 E21B43/16 C09K8/56 E21B43/26 C09K8/58 C09K8/602 C09K8/584 C09K8/60 C09K2208/28 C09K8/72 E21B43/25 E21B43/24 E21B41/00 E21B37/06 C09K8/86

US: 166/276 166/279 166/280.2 166/300 166/305.1 507/205 507/219 507/221 507/224 507/231 507/234

**Family:**

Publication number	Publication date	Application number	Application date
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AU2014321293 BB	20171019	AU20140321293	20140919
AU2014321302 AA	20150326	AU20140321302	20140919
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AU2014321306 AA	20150326	AU20140321306	20140919
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CA2920687 AA	20160205	CA20142920687	20140919
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CO16060502 A2	20170920	CO20160060502	20160309
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IN201617004569 A	20160805	IN201617004569	20160209
IN201617005214 A	20160729	IN201617005214	20160215
IN201617005477 A	20160831	IN201617005477	20160217
IN201717034358 A	20171215	IN201717034358	20170927
MX2016002653 A1	20160606	MX20160002653	20140919
MX2016002656 A1	20160606	MX20160002656	20140919
MX2016003571 A1	20161028	MX20160003571	20140919
MX2016003573 A1	20170223	MX20160003573	20140919
MX2017011565 A1	20171204	MX20170011565	20160310
NO20171552 A	20170928	NO20170001552	20170928
RU2016115070 A	20171025	RU20160115070	20140919
RU2016115072 A	20171025	RU20160115072	20140919
RU2016115073 A	20171025	RU20160115073	20140919
RU2016115074 A	20171025	RU20160115074	20140919
US2015083414 AA	20150326	US20140491919	20140919
US2015083415 AA	20150326	US20140491944	20140919
US2015083416 AA	20150326	US20140491772	20140919
US2015083417 AA	20150326	US20140491905	20140919
US2015299561 AA	20151022	US20150643245	20150310
US2017292064 AA	20171012	US20170634619	20170627
US9562188 BB	20170207	US20140491944	20140919

US9683431 BB	20170620	US20140491905	20140919
US9701892 BB	20170711	US20150643245	20150310
US9822621 BB	20171121	US20140491772	20140919
WO15042477 A1	20150326	WO2014US56675	20140919
WO15042486 A1	20150326	WO2014US56686	20140919
WO15042489 A1	20150326	WO2014US56690	20140919
WO15042490 A1	20150326	WO2014US56691	20140919
WO16145263 A1	20160915	WO2016US21888	20160310

Priority:

US20130880758P 20130920	US20130880773P 20130920	US20130880845P 20130921
US20130880841P 20130920	US20130880836P 20130920	US20130880840P 20130920
US20140491919 20140919	US20140981051P 20140417	US20140989267P 20140506
US20140491944 20140919	US20140491772 20140919	US20140007708P 20140604
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WO2016US21888 20160310	US20170634619 20170627	

Probable Assignee: BAKER HUGHES INC

Assignee(s): (std): BAKER HUGHES A GE CO LLC ; BAKER HUGHES ; BAKER HUGHES A GE CO ; BAKER HUGHES INC ; BAKER HUGHES INC

Assignee(s): BAKER HUGHES INCORPORATION ; LE HOANG ; BHADURI SUMIT ; BESTAOUI SPURR NAIMA ; MONROE TERRY D ; CREWS JAMES B ; QU QI ; LANT KIMBERLY ; BEALL BRIAN B

Inventor(s): (std): LANT KIMBERLY ; MONROE TERRY D ; LE HOANG ; KIMBERLY LANT ; HOANG LE ; JAMES B CREWS ; QU QI ; NAIMA BESTAOUI SPURR ; SUMIT BHADURI ; TERRY D MONROE ; QI QU ; BEALL BRIAN B ; BESTAOUI SPURR NAIMA ; BHADURI SUMIT ; CREWS JAMES B ; H LI

Inventor(s): BRIAN B BEALL

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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

Title: PLASTICIZED LATEX FORMULATIONS FOR IMPROVED PUMPABILITY

Abstract: Source: US2015291903A [EN] Hydrocarbon streams, such as crude oil streams, may have reduced drag when an effective amount to reduce drag of a drag reducing composition is added to a liquid hydrocarbon, where the drag reducing composition includes a drag reducing latex comprising at least one plasticizer in an amount effective to improve the ability to pump the latex into a hydrocarbon composition or stream with assured flow of the latex. Latex formulations are known to cause agglomerated particles during pumping operations, and the agglomerated hard particles tend to plug check valves in injection pump equipment, but the inclusion of at least one plasticizer reduces or prevents such problems.

Classifications:

International (IPC 8-9): C08J3/18 C08K5/05 C08K5/053 C08L33/08 C08L33/10 C09K3/00 C09K8/035 C10G71/00 C10L1/14 C10L10/00 C10L10/08 C10M107/28 C10M169/04 E21B43/22 (Advanced/Invention)

CPC: C10L10/08 C08K5/05 C10L1/143 C10G71/00 C10M169/04 C10L2200/0259 C10L2230/14 C10L2250/04 C10L2270/023 C10L2270/026 C08L33/08 C08F2220/1858 C08F220/06 C08F212/08 C08K5/053 C08J3/18 C08J2333/10 C09K8/035 C09K2208/28

US: 44/395 524/385 585/4

Family:

Publication number	Publication date	Application number	Application date
CA2942025 AA	20160908	CA20152942025	20150128
CN106170535 A	20161130	CN201580019151	20150128
CO20160002265 A2	20170410	CO20160002265	20160923
EP3129452 A1	20170215	EP20150775952	20150128
EP3129452 A4	20171227	EP20150775952	20150128
US2015291903 AA	20151015	US20150606626	20150127
US2017130154 AA	20170511	US20170416158	20170126
US9644161 BB	20170509	US20150606626	20150127
WO15156896 A1	20151015	WO2015US13180	20150128

Priority:

US20140978272P 20140411 US20150606626 20150127 WO2015US13180 20150128
US20170416158 20170126

Probable Assignee: BAKER HUGHES INC

Assignee(s): (std): BAKER HUGHES INC

Assignee(s): FAIRCHILD KEITH D ; KOMMAREDDI NAGESH S ; POLAND ROSS ; WEERS JERRY J ; WARD JACK B

Inventor(s): (std): FAIRCHILD KEITH D ; KOMMAREDDI NAGESH S ; POLAND ROSS ; WARD JACK B ; WEERS JERRY J

Inventor(s): ROSS POLAND ; NAGESH S KOMMAREDDI ; JACK B WARD ; JERRY J WEERS ; KEITH D FAIRCHILD

Agent(s): SIM AND MCBURNEY; CAROLINA MERCEDES DAZA MONTALVO; BEACHAM ANNABEL ROSE; MOSSMAN KUMAR AND TYLER PC; LITTLEFIELD STEPHEN A 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

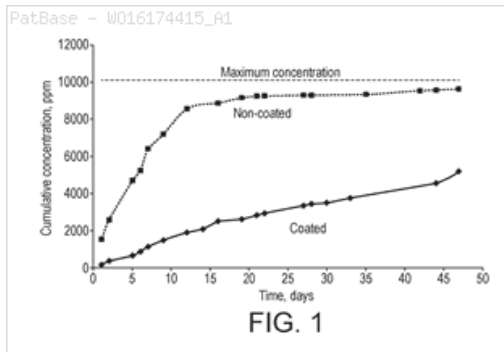
Title: CONTROLLED RELEASE SYSTEM FOR THE RELEASE OF **oil** FIELD CHEMICALS AND USE OF THE SYSTEM FOR RESERVOIR TREATMENT AND MONITORING

Abstract: Compositions having a core and a coating that covers at least part of the core, where the core comprises a mixture of at least one **oil** field chemical and at least one core matrix **polymer** are described. The composition provides a slower release of an **oil** field chemical into an eluent compared to the release provided by the release from the core. The compositions provide for the controlled release of tracer over long periods of time than is provided by the release from the core. Methods of making the compositions and systems containing the compositions are described. Methods of tracing the movement of fluid in a **hydrocarbon** reservoir using the compositions and methods of releasing biocides and other well treatment agents into reservoir fluids over time are also described.

Classifications:

International (IPC 8-9): C09K8/03 C09K8/58 C09K8/68 C09K8/70 C09K8/88 C09K8/92 E21B43/00 E21B47/00 G01N33/00 (Advanced/Invention)

CPC: C09K8/03 C09K8/58 C09K8/685 C09K8/70 C09K8/88 C09K8/92 C09K2208/08 C09K2208/10 C09K2208/20 C09K2208/22 C09K2208/32 E21B47/1015



Family:

Publication number	Publication date	Application number	Application date
EP3289040 A1	20180307	EP20160720492	20160426
GB201507483 A0	20150617	GB20150007483	20150430
GB201516064 A0	20151028	GB20150016064	20150910
WO16174415 A1	20161103	WO2016GB51174	20160426

Priority:

GB20150007483 20150430 GB20150016064 20150910 WO2016GB51174 20160426

Probable Assignee: JOHNSON MATTHEY PLC

Assignee(s): (std): JOHNSON MATTHEY PLC ; JOHNSON MATTHEY PUBLIC LTD CO

Assignee(s): JOHNSON MATTHEY PUBLIC CO LTD

Inventor(s): (std): BURNS THOMAS WILLIAM ; QUIGLEY PAUL FINBAR ; ZHAO CHUN TIAN

Agent(s): BOWN MARK RICHARD; BOWN MARK

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