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Search 6: (unsaturates polycarboxylate polymers) (Results 0)
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Title: CEMENT ADMIXTURE, CEMENT COMPOSITION AND METHOD FOR LAYING WORK THE SAME, AND METHOD FOR PRODUCING CEMENT HARDENED PRODUCT

Abstract: Source: US2004198871A [EN] The cement admixture of the present invention can provide viscosity decreasing ability as well as a high dispersing ability and slump loss preventing ability even in a high water reducing ratio range. The above-mentioned cement admixture comprises three components of a copolymer (A) containing a constituent unit (I) derived from the unsaturated (poly)alkylene glycol ether monomer (a) and a constituent unit (II) derived from a maleic acid monomer (b), a specific unsaturated (poly)alkylene glycol ether monomer (a) and a non-polymerizable (poly)alkylene glycol (B) having no alkenyl group.

Classifications:

International (ipc 8-9): C04B24/02 C04B24/06 C04B24/22 C04B24/26 C04B24/32 C04B24/38 C04B28/02 C04B40/00 C04B40/02 C08F16/20 C08F22/02 C08F22/10 C08F283/06 C08F290/06 C08F290/14 C08K5/06 C08L71/02 E04G21/00 (Advanced/Invention);

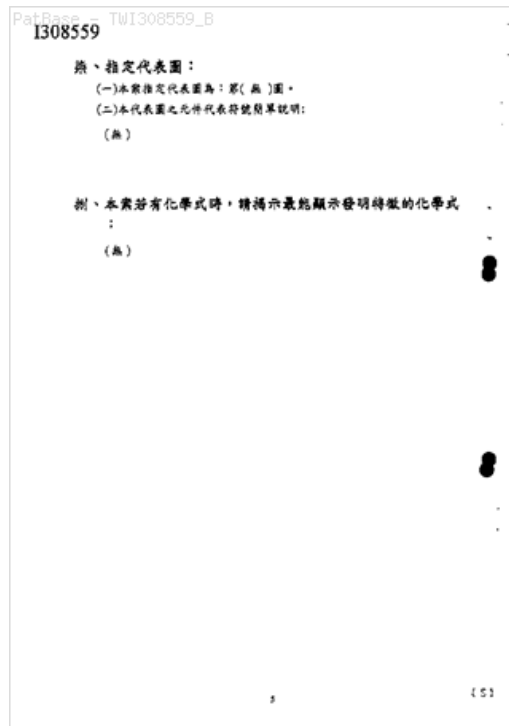
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C04B40/00 C08F283/00 C08L71/00 (Core/Invention)

International (ipc 1-7): C04B24/26 C04B28/02 C08F22/02 C08F22/10 C08F290/06 C08K3/00

CPC: Y10T24/1303 Y10T24/3493 Y10T24/3495 C08F290/142 C04B40/0039 C04B2103/32 C08F283/06 C08F283/065 C08F290/14 C08L71/02 C04B28/02

European: C04B28/02 C04B40/00D4 C08F283/06 C08F283/06B C08F290/14 C08F290/14B C08L71/02 M04B103/32

US: 24/376 24/377 24/4 524/2 524/2P 524/5

**Family:**

Publication number	Publication date	Application number	Application date
CN100542989 C	20090923	CN200480006065	20040302
CN1756724 A	20060405	CN200480006065	20040302
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US7304104 BB	20071204	US20040791729	20040304
WO04078672 A1	20040916	WO2004JP02574	20040302

Priority:

JP20030058191 20030305 JP20030058369 20030305 JP20030087753 20030327
EP20040716350 20040302 WO2004JP02574 20040302 WO2004JP02574 20050905

Probable Assignee: NIPPON SHOKUBAI CO LTD

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Assignee(s): NIPPON SHOKUBAI CO ; NIPPON SHOKUBAI CO LTD

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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 KP KR KZ

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Title: **CEMENT** ADMIXTURE

Abstract: Source: US2005182162A [EN] There are provided a **cement** admixture which enhances water reducing property and flowability of a **cement** composition, and is excellent in slump retaining performance to retain the flowability with time, a polycarboxylic acid-based polymer for a **cement** admixture suitable therefor, a producing method thereof, and a **cement** composition. One **cement** admixture of the present invention contains copolymers (A) and (B) as an essential component, weight average molecular weights (AMw and BMw) of copolymers (A) and (B) are AMw>BMw, or peaktop molecular weights (AMp and Bmp) of copolymers (A) and (B) are AMp>Bmp. Another **cement** admixture of the present invention contains a polycarboxylic acid-based polymer having a lower molecular weight side area ratio P of 50 to 87 percent.

Classifications:

International (IPC 8-9): C04B103/30 C04B24/04 C04B24/26 C04B28/02 C04B40/00 C04B7/00 C08F2/38 C08F220/06 C08F290/06 C08K3/00 C08L33/02 C08L55/00 (Advanced/Invention); C04B103/30 C04B24/04 (Advanced/Non-invention); C04B24/00 C04B28/00 C04B40/00 C08F220/00 C08F290/00 C08K3/00 C08L55/00 (Core/Invention)

International (IPC 1-7): C04B24/26 C04B28/02 C08F220/06 C08F290/06 C08K3/00 C08L55/00

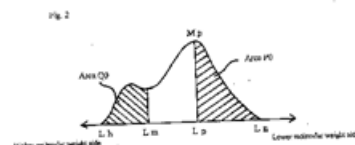
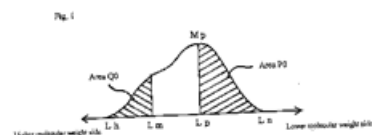
CPC: C08F290/062 C04B24/2647 C04B40/0039 C04B2103/302 C04B2103/308 C08F2/38 C08F220/06 C08F220/288 C08L33/02

European: C04B24/26K10 C04B40/00D4 C08F2/38 C08F220/06 C08F290/06B C08L33/02 M04B103/30B M04B103/30S M08F220/06 M08F220/28H6

US: 524/2 524/2P 524/4 524/5 524/556 524/558 526/240 526/318.41 526/79

PatBase - US2005182162_AA

Patent Application Publication Aug. 16, 2006 Sheet 1 of 2 US 2005/0182162 A1

**Family:**

Publication number	Publication date	Application number	Application date
BRPI0416820 A	20070306	BR2004PI16820	20041228
CN100425563 C	20081015	CN200480036246	20041228
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DE602004050385 D1	20170105	DE200460050385T	20041228
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JP5506127 B2	20140528	JP20050516865T	20041228
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KR100804099 B1	20080218	KR20077015109	20041228
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RU2006122535 A	20080110	RU20060122535	20041228
RU2332376 C2	20080827	RU20060122535	20041228
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WO05066095 A1	20050721	WO2004JP19839	20041228

Priority:

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EP20110187858	20041228	WO2004JP19839	20041228	JP20050516865	20041228
WO2004JP19839	20060525	WO2004JP19839	20070629	JP20110142136	20110627

Probable Assignee: NIPPON SHOKUBAI CO LTD**Assignee(s):** (std): NIPPON CATALYTIC CHEM IND ; NIPPON SHOKUBAI CO LTD ; NIPPON SOKUBAI KO LTD**Assignee(s):** NIPPON SOKUBAI KO ; NIPPON SHOKUBAI CO

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UETA ; UETA TOMIYASU ; YAMAZAKI HIROSHI ; YUASA TSUTOMU ; HAYASHIYA TOSHIO

Inventor(s): HAYASHIYA TOSHIO UETA TOMIYASU HIRATA TSUYOSHI ; HAYASHIYA TOSHIO UETA TOMIYASU HIRATA TSUYOSHI YAM ; YUASA TSUTOMU OSAKA SHI ; HIRATA TSUYOSHI KOBE SHI ; HAYASHIYA TOSHIO TOYONO CHO TOYONO GUN

Agent(s): GLAWE DELFS MOLL PARTNERSCHAFT MBB VON PATENT U RECHTSANWAELTEN; GLAWE DELFS MOLL; ROBERT J JACOBSON PA

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

Title: Nitrite-based corrosion inhibitors with improved anodic and cathodic inhibiting performance

Abstract: Source: US5634966A [EN] Mixed anodic/cathodic corrosion inhibitors for use in hydraulic **cement**, comprising a) a first component consisting of an amount of alkali or alkaline earth metal nitrite sufficient to inhibit anodic corrosion; and b) a second component comprising an agent that acts to increase the anodic corrosion performance of the first component; wherein said first and second components are present in a weight ratio of from about 1:0.1 to 1:1. Optionally an EO/PO superplasticizer can be incorporated where the weight ratio of the first component, i.e., nitrite, to EO/PO superplasticizer is from about 1:0.005 to 1:0.25, with the surprising benefit of increased protection against cathodic corrosion without harming the level of anodic corrosion inhibition.

Classifications:

International (IPC 8-9): C04B14/36 C04B16/04 C04B22/08 C04B24/00 C04B24/02 C04B24/12 C04B24/24 C04B24/26 C04B24/32 C04B26/06 C04B28/02 C04B7/34 C08F8/14 C08F8/30 C08F8/32 C08F8/48 C08G65/32 C08G81/02 C08K3/00 C08K3/34 C08L33/02 C08L33/24 C08L35/00 (Advanced/Invention); C04B103/32 C08L35/00 (Advanced/Non-invention); C04B16/00 C04B22/00 C04B24/00 C04B28/00 C08F8/00 C08G65/00 C08G81/00 C08K3/00 C08L33/00 C08L35/00 (Core/Invention); C04B24/24 C04B7/34 (Core/Non-invention)

International (IPC 1-7): C04B103/32 C04B103/32 C04B103/61 C04B111/26 C04B14/36 C04B16/04 C04B22/08 C04B24/00 C04B24/02 C04B24/04 C04B24/12 C04B24/24 C04B24/26 C04B24/32 C04B26/06 C04B28/02 C04B7/34 C08F C08F20/06 C08F8/14 C08F8/30 C08F8/32 C08F8/48 C08G65/32 C08G81/02 C08K3/00 C08K3/28 C08K3/34 C08L33/00 C08L33/02 C08L33/24 C08L35/00 C09D5/00 C23F11/00 C23F11/18

CPC: C04B2111/26 C04B24/2647 C04B24/2694 C04B24/2658 C04B40/0039 C04B2103/001 C04B2201/05 C08K3/34 C04B2103/304 C04B2103/32 C08F8/48 C08F8/32 C08G81/025 C04B2103/006 C04B28/02

European: C04B24/26K10 C04B24/26N10 C04B24/26V10 C04B28/02 C04B40/00D4 C08F8/30 C08F8/32 C08F8/48 C08K3/34 M04B103/00C8 M04B111/26 M04B201/05

US: 106/14.41 106/14.42 106/644 106/724 106/727 106/728 106/802 106/808 106/810 106/819 106/823 524/2 524/5 524/650 525/329.9 525/330.1 525/379 525/380 525/384 525/385 525/77 526/262 528/322

PatBase - US5703174_A

U.S. Patent Dec. 30, 1997 Sheet 1 of 3 5,703,174

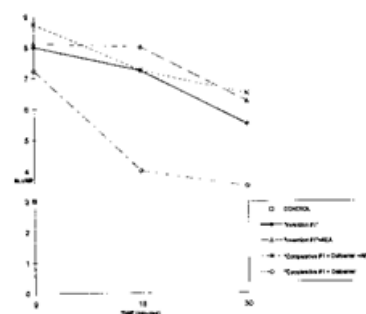


Fig. 1

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CN1085631 C	20020529	CN19961012162	19960718
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Priority:

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WO1997US07148	19970512				

Probable Assignee: WR GRACE AND CO CONN

Assignee(s): (std): GRACE W R AND CO ; GRACE AND CO ; GRACE CO ; WR GRACE AND CO CONN ; WR GRACE AND CO ; WR GRACE AND CO CONNECTICUT

Assignee(s): W R GRACE AND CO CONN US ; W R GRACE AND CO CONN NEW YORK ; ROBERTS LAWRENCE R ; WR GRACE AND ; ARFAEI AHMAD ; BERKE NEAL S ; CO CONN ; DARWIN DAVID C ; DARWIN DAVID CHARLES ; GRACE W R AND CO CONN US ; GARTNER ELLIS MARTIN ; HICKS MARIA C ; LAMBERT JAMES F ; JEKNAVORIAN ARA A ; GARTNER ELLIS M ; JARDINE LESLIE A ; GOLDMAN SACHS BANK USA COLLATERAL AGENT AS ; GCP APPLIED TECHNOLOGIES INC ; W R GRACE AND CO CONN ; W R GRACE AND CO CONNECTICUT

Inventor(s): (std): GARTNER ELLIS M ; GARTNER ELLIS MARTIN ; GARTNER MARTIN ; JAMES F LAMBERT ; JARDINE LESLIE A ; JARDINE LESLIE ANN ; JEKNAVORIAN ARA A ; JEKNAVORIAN ARA AVEDIS ; LAMBERT F ; LAMBERT JAMES F ; LAMBERT JAMES FRANKLIN ; ROBERTS LAWRENCE R ; ROBERTS LAWRENCE REEDER ; NS BERKE ; NEAL S BERKE ; N S BERKE ; MC HICKS ; MARIA C HICKS ; M C HICKS ; LESLIE A JARDINE ; LAWRENCE R ROBERTS ; J F LAMBERT ; EM GARTNER ; EM GARTNAR ; ELLIS MARTIN GARTNER ; ELLIS M GARTNER ; E M GARTNER ; DC DARWIN ; DC DARWEN ; DAVID CHARLES DARWIN ; DAVID C DARWIN ; D C DARWIN ; ARA A JEKNAVORIAN ; AHMAD ARFAEI ; A ARFAEI ; NIIRU ESU BAAKU ; MARIA SHII HITSUKUSU ; LAMBERT J F ; HICKS MARIA C ; HICKS M C ; GARTNER E M ; GARTNAR E M ; DARWIN D C ; DARWEN D C ; BERKE N S ; ARFAEI A ; ARFAEI AHMAD ; BERKE NEAL S ; BERKE NEAL STEVEN ; DARWIN CHARLES ; DARWIN DAVID C ; DARWIN DAVID CHARLES

Inventor(s): David Charies ; E M GARTNAR ; D C DARWEN ; Darwin

Agent(s): PHILLIPS ORMONDE FITZPATRICK; SMART AND BIGGAR; PORZIO

Designated states: AL AM AT AU AZ BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GH GN GR HU IE IL IS IT JP KE KG KP KR KZ LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TR TT UA UG UZ VN

Title: PRODUCTION METHOD OF UNSATURATED (POLY)ALKYLENE GLYCOL ETHER MONOMER AND PRODUCTION METHOD OF (POLY)ALKYLENE GLYCOL CHAIN-CONTAINING POLYMER

Abstract: Source: US2010130793A [EN] To provide a production method of a (poly)alkylene glycol chain-containing polymer which can be preferably used in various applications such as an admixture for **cement** and which can exhibit extremely high dispersibility to a **cement** composition. The unsaturated (poly)alkylene glycol ether monomer of the present invention is an unsaturated (poly)alkylene glycol ether monomer production method for producing an unsaturated (poly)alkylene glycol ether monomer by addition reaction of an alkylene oxide on an unsaturated alcohol, wherein the production method includes a step of carrying out addition reaction under condition of existence of 0.01 to 25 parts by mass of an unsaturated (poly)alkylene glycol diether monomer to 100 parts by mass of the unsaturated alcohol, and a (poly)alkylene glycol chain-containing polymer production method, wherein a monomer component including an unsaturated (poly)alkylene glycol ether monomer produced by the production method.

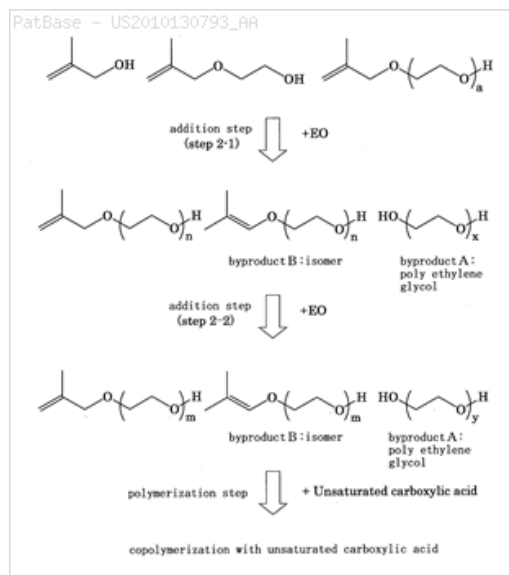
Classifications:

International (IPC 8-9): C04B24/26 C04B24/28 C07C41/03 C08F216/12 C08F216/14 C08F220/06 C08F220/28 C08F290/06 C08G65/26 C08G65/28 C08G65/332 (Advanced/Invention); C04B24/26 (Advanced/Non-invention); C04B24/00 C07C41/00 C08F220/00 C08F290/00 C08G65/00 (Core/Invention); C04B24/00 (Core/Non-invention)

CPC: C08F216/125 C08F216/1416 C08F220/06 C08G65/2609

European: C08F216/12B C08F216/14D C08F220/06 C08G65/26C1L

US: 568/687 568/687P



Family:

Publication number	Publication date	Application number	Application date
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CN101657479 B	20130925	CN200880010227	20080404
CN102731732 A	20121017	CN201210238901	20080404
EP2152771 A1	20100217	EP20080740217	20080404
EP2152771 A4	20120201	EP20080740217	20080404
EP2152771 B1	20160907	EP20080740217	20080404
JP2008274258 A2	20081113	JP20080093434	20080331
JP2009046655 A2	20090305	JP20080093435	20080331
JP5466373 B2	20140409	JP20080093434	20080331
JP5466374 B2	20140409	JP20080093435	20080331
US2010130793 AA	20100527	US20080594397	20080404
US8754264 BB	20140617	US20080594397	20080404
WO08126909 A1	20081023	WO2008JP57119	20080404

Priority:

JP20070099609 20070405 JP20070099610 20070405 JP20070190926 20070723
JP20080093434 20080331 JP20080093435 20080331 WO2008JP57119 20080404

Probable Assignee: NIPPON SHOKUBAI CO LTD

Assignee(s): (std): ITAYAMA NAOHIKO ; MATSUDA YUKO ; NAGANO HIDEAKI ; NIPPON CATALYTIC CHEM IND ; NIPPON CATALYTIC CHEM IND JP ; YUASA TSUTOMU

Assignee(s): NIPPON SHOKUBAI CO LTD ; NIPPON SHOKUBAI CO

Inventor(s): (std): YUKO MATSUDA ; YUASA TSUTOMU ; TSUTOMU YUASA ; NAOHIKO ITAYAMA ; NAGANO HIDEAKI ; MATSUDA YUKO ; ITAYAMA NAOHIKO ; HIDEAKI NAGANO

Agent(s): BREHM HANS PETER; WEICKMANN AND WEICKMANN PARTMBB; CONNOLLY BOVE LODGE AND HUTZ LLP; NOVAK DRUCE CONNOLLY BOVE LODGE AND HUTZ LLP; YASUTOMI YASUO ET AL

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 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: **CEMENT** ADMIXTURE

Abstract: Source: US2007142505A [EN] A **cement** admixture object of the present invention can make slump-retaining ability excellent to retain fluidity and, at the same time, can realize a viscosity of **cement** compositions so that work becomes easy at a field handling them, can make the state of a **cement** composition better. The present invention relates to a **cement** admixture which comprises a polycarboxylic acid copolymer having a polyalkylene glycol side chain, said polycarboxylic acid copolymer being constituted of two or more species of copolymers with different acid values, and at least one of said two or more species of copolymers with different acid values having an oxyalkylene group containing 3 or more carbon atoms.

Classifications:

International (IPC 8-9): C04B24/00 C04B103/32 C04B24/26 C04B40/00 C08F220/26 C08F299/02 C08K3/00 C08K3/04 C08K5/09 C08K5/092

C08K5/11 C08L33/14 (Advanced/Invention);
C04B103/32 C04B103/40 C04B24/00 C04B24/26
C08F220/26 (Advanced/Non-invention);
C04B24/00 C08F299/00 (Core/Invention)

International (IPC 1-7): C04B24/00 C04B24/26 C08F220/26
CPC: C04B40/0039 C04B24/2647 C04B2103/302 C04B2103/308

European: C04B24/26K10 C04B40/00D4 M04B103/30B M04B103/30S
US: 524/2 524/200 524/2P 524/376 524/377 524/4 524/5 525/223

525/223S 526/318.42

PatBase: TWI293066_B
1293066

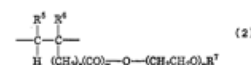
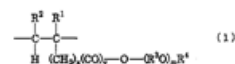
七、指定代表圖：

(一)本案指定代表圖為：第(無)圖。

(二)本代表圖之元件符號簡單說明：

無

八、本案若有化學式時，請揭示最能顯示發明特徵的化學式：

**Family:**

Publication number	Publication date	Application number	Application date
■ CN100450958 C	20090114	CN200480031440	20041104
■ CN1871184 A	20061129	CN200480031440	20041104
■ EP1680377 A1	20060719	EP20040799598	20041104
■ EP1680377 A4	20121010	EP20040799598	20041104
■ EP1680377 B1	20171220	EP20040799598	20041104
■ JP2006036623 A2	20060209	JP20040319770	20041102
■ JP2010202512 A2	20100916	JP20100104460	20100428
■ JP4666344 B2	20110406	JP20040319770	20041102
■ JP5349402 B2	20131120	JP20100104460	20100428
■ KR100924665 B1	20091103	KR20067008284	20041104
■ KR20060109445 A	20061020	KR20067008284	20041104
■ TW200517355 A	20050601	TW20040133563	20041104
■ TWI293066 B	20080201	TW20040133563	20041104
■ US2007142505 AA	20070621	US20040578574	20041104
■ US8058328 BB	20111115	US20040578574	20041104
■ WO05044752 A1	20050519	WO2004JP16704	20041104

Priority:

JP20030376183 20031105 JP20040167295 20040604 JP20040186452 20040624
JP20040319770 20041102 WO2004JP16704 20041104 JP20100104460 20100428

Probable Assignee: NIPPON SHOKUBAI CO LTD**Assignee(s):** (std): NIPPON SHOKUBAI CO LTD ; TANAKA HIROMICHI ; UETA TOMIYASU ; YAMAZAKI HIROSHI ; NIPPON CATALYTIC CHEM IND**Assignee(s):** NIPPON SHOKUBAI CO**Inventor(s):** (std): TANAKA HIROMICHI ; UETA TOMIYASU ; YAMAZAKI HIROSHI ; UEDA TOMIYASU ; TOMIYASU UETA ; HIROSHI YAMAZAKI ; HIROMICHI TANAKA**Inventor(s):** UETA TOMIYASU YAMAZAKI HIROSHI TANAKA HIROMICHI**Agent(s):** HART DAVIS JASON; CONNOLLY BOVE LODGE AND HUTZ 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 HR HU ID IE IL IN IS IT KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: CEMENT ADMIXTURE AND CEMENT ADMIXTURE COMPOSITE

Abstract: Source: US2007173568A [EN] The cement admixture and the cement admixture composite of the present invention can improve the water-reducing ability of cement compositions and the like and enhance the strength and durability of hardening products produced therefrom and further can adjust the viscosity of such compositions so as to facilitate the works at the sites of handling the same. The above-mentioned cement admixture is a cement admixture comprising a polycarboxylic acid polymer containing a specific site, and the above-mentioned cement admixture composite comprises two or more species of cement admixtures, wherein at least one of them is said cement admixture.

Classifications:

International (IPC 8-9): C04B24/26 C04B24/28 C04B28/02 C04B40/00

C08F290/06 C08L31/00 (Advanced/Invention);

C04B103/30 C04B103/32 C04B24/26 C04B28/02

C08F290/06 (Advanced/Non-invention);

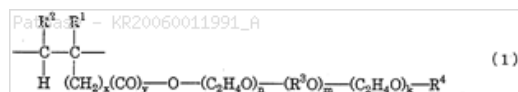
C04B24/00 C04B28/00 C04B40/00 C08F290/00 C08L31/00 (Core/Invention)

International (IPC 1-7): C04B24/26 C04B24/28 C04B28/02 C08F290/06

CPC: C04B24/2647 C04B24/267 C04B40/0039 C04B2103/302 C04B2103/304

European: C04B24/26K10 C04B24/26R10 C04B40/00D4 M04B103/30B M04B103/30D

US: 524/5 524/556 524/556S 524/560 524/5P



Family:

Publication number	Publication date	Application number	Application date
■ CN100348530 C	20071114	CN200480011846	20040507
■ CN1784368 A	20060607	CN200480011846	20040507
■ DE602004039462 D1	20121122	DE200460039462T	20040507
■ EP1622845 A1	20060208	EP20040731733	20040507
■ EP1622845 A4	20060719	EP20040731733	20040507
■ EP1622845 B1	20120926	EP20040731733	20040507
■ ES2396047 T3	20130218	ES20040731733T	20040507
■ JP2006525219 T2	20061109	JP20060507729T	20040507
■ JP4447006 B2	20100407	JP20060507729T	20040507
■ KR100832755 B1	20080527	KR20057021134	20040507
■ KR20060011991 A	20060206	KR20057021134	20040507
■ TW200502191 A	20050116	TW20040112712	20040506
■ TWI259831 B	20060811	TW20040112712	20040506
■ US2007173568 AA	20070726	US20040555955	20040507
■ US7368488 BB	20080506	US20040555955	20040507
■ WO04099100 A1	20041118	WO2004JP06479	20040507

Priority:

JP20030128594 20030507 JP20030346161 20031003 EP20040731733 20040507
WO2004JP06479 20040507 WO2004JP06479 20051107

Probable Assignee: NIPPON SHOKUBAI CO LTD

Assignee(s): (std): IWAI SHOGO ; MIYAGAWA MINORU ; NIPPON CATALYTIC CHEM IND ; NISHIKAWA TOMOTAKA ; TANAKA HIROMICHI ; UETA TOMIYASU

Assignee(s): NIPPON SHOKUBAI CO ; NIPPON SHOKUBAI CO LTD

Inventor(s): (std): SHOGO NISHIKAWA TOMOTAKA UETA ; UETA TOMIYASU ; TANAKA HIROMICHI ; NISHIKAWA TOMOTAKA ; MIYAGAWA MINORU ; IWAI SHOGO

Inventor(s): NISHIKAWA TOMOTAKA UETA TOMIYASU TANAKA ; NISHIKAWA TOMOTAKA UETA TOMIYASU TANAKA HIROMICHI ; UETA TOMIYASU SUITA SHI ; TANAKA HIROMICHI YOKOHAMA SHI ; NISHIKAWA TOMOTAKA YAKOHAMA SHI ; MIYAGAWA MINORU MIURA SHI ; IWAI SHOGO KAWASAKI SHI

Agent(s): CBDL PATENTANWAELE; HART DAVIS JASON; GARCIA-CABRERIZO GARCIA-CABRERIZO PEDRO; CONNOLLY BOVE LODGE AND HUTZ LLP; CONNOLLY BOVE LODGE AND HUTZ

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

Title: COPOLYMER FOR DISPERSANT FOR CEMENT, DISPERSANT FOR CEMENT, AND CEMENT COMPOSITION

Abstract: Source: US2015065615A [EN] An object of the present invention is to provide a novel copolymer capable of exerting excellent dispersibility to various kinds of cement including cement having low fluidity (difficult cement), and a dispersant for cement and cement composition including the copolymer. The copolymer of the present invention is a copolymer obtainable by polymerizing monomer components including an unsaturated (poly)alkylene glycol ether monomer (a), an unsaturated carboxylic acid monomer (b), and an unsaturated cross-linkable monomer (c) or an unsaturated polymerizable monomer (d).

Classifications:

International (IPC 8-9): C04B24/00 C04B24/26 C04B28/02 C08F216/00 C08F216/14 C08F220/28 C08F283/06 C08F290/06 C08G65/00 C08G65/332 C08L71/02 (Advanced/Invention); C04B103/00 C04B103/40 (Advanced/Non-invention)
CPC: C04B24/2694 C08F216/1416 C04B2103/408 C04B24/00 C04B24/2647 C04B24/267 C04B28/02 C04B2103/0062 C08F283/06 C08G65/3324 C08L71/02 C08F222/06 C08F222/1006 C08F222/1013 C08F220/06

US: 1/1 524/5 526/271

Table - EP2644578_A1

	Cement A		Cement B	
	Addition amount of copolymer (wt%)	Flow value (cm)	Addition amount of copolymer (wt%)	Flow value (cm)
Example 1	0,2	27,2	0,2	14,7
Comparative Example 1	0,2	26,2	0,2	9,6
Example 2	0,12	24	0,4	23,9
Comparative Example 2	0,12	25,5	0,6	22,3

Family:

Publication number	Publication date	Application number	Application date
DE602013007960 D1	20160721	DE201360007960T	20130328
EP2644578 A1	20131002	EP20120162379	20120330
EP2831011 A1	20150204	EP20130715650	20130328
EP2831011 B1	20160525	EP20130715650	20130328
JP2015512986 T2	20150430	JP20150500951T	20130328
JP5981634 B2	20160831	JP20150500951T	20130328
US2015065615 AA	20150305	US20130388181	20130328
US9328022 BB	20160503	US20130388181	20130328
WO13144332 A1	20131003	WO2013EP56800	20130328

Priority:

EP20120162379 20120330 EP20130715650 20130328 WO2013EP56800 20130328

Probable Assignee: NIPPON SHOKUBAI CO LTD

Assignee(s): (std): NIPPON CATALYTIC CHEM IND ; TECH UNIV MUENCHEN ; UNIV MUENCHEN TECH

Assignee(s): TECHNISCHE UNIVERSITAT MUNCHEN ; TECHNISCHE UNIV MUENCHEN ; NIPPON SHOKUBAI CO ; NIPPON SHOKUBAI CO LTD

Inventor(s): (std): HIRATA TSUYOSHI ; LANGE ALEX ; PLANK JOHANN

Agent(s): WEICKMANN AND WEICKMANN PATENTANWALTE RECHTSANWALT PARTMBB; LIEDL CHRISTINE; BECK ALEXANDER; WEICKMANN AND WEICKMANN PARTMBB; HAMRE SCHUMANN MUELLER AND LARSON PC; PATENT U RECHTSANWALTE HANSMANN AND VOGESER

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

Title: COPOLYMER FOR CEMENT ADMIXTURES AND ITS PRODUCTION PROCESS AND USE

Abstract: Source: US2003125492A [EN] The present invention provides: a copolymer for cement admixtures which displays high dispersibility with a small adding amount and excellent dispersibility particularly even in a high water reducing ratio area, a cement admixture utilizing the copolymer, and a cement composition, and further, a production process for the copolymer. The copolymer for cement admixtures comprises: constitutional unit (I) derived from unsaturated polyalkylene glycol ether monomer (a) having an alkenyl group having 5 carbon atoms and an oxyalkylene group having 2 to 18 carbon atoms with an average addition number of moles of the oxyalkylene groups to be in the range of 10 to 300; and constitutional unit (II) derived from unsaturated monocarboxylic acid monomer (b). The cement admixture includes the copolymer for cement admixtures as an essential component, and may further include a defoaming agent. The cement composition includes the copolymer for cement admixtures, and cement as essential components. The production process for the copolymer comprises: copolymerizing comonomers including unsaturated polyalkylene glycol ether monomer (a) and unsaturated monocarboxylic monomer (b) as essential components by use of a chain-transfer agent, and/or adjusting pH of a resultant reaction mixture to not less than 5 after the copolymerization.

Classifications:

International (IPC 8-9): C04B24/02 C04B24/26 C04B24/32 C04B28/02 C08F16/00 C08F216/14 C08F290/06 C08G65/26 C08L51/00

C08L71/02 (Advanced/Invention);

C04B103/32 C08F216/14 (Advanced/Non-invention)

International (IPC 1-7): C04B103/32 C04B24/02 C04B24/24 C04B24/26 C04B24/28 C04B28/02 C08F122/02 C08F16/02 C08F216/12 C08F216/14 C08F22/02 C08F220/02 C08F220/06 C08F222/02 C08F290/06 C08K3/00

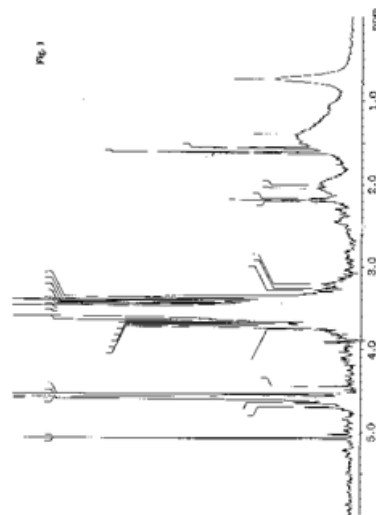
CPC: C04B24/2641 C04B24/2647 C04B24/32 C04B2103/408 C04B2111/00189 C08F216/1416 C08F290/062 C08G65/2609 C08L51/003 C08L71/02

European: C04B24/26K C04B24/26K10 C04B24/32 C08F216/14D C08F290/06B C08G65/26C1L C08L51/00B C08L71/02 M04B103/40P M04B111/00M20

US: 106/724 106/724S 106/823 106/823S 524/3 524/5 524/556 524/558 524/5S 526/318.2 526/318.200P 526/318.5 526/318.500S

PatBase - US2003125492_AA

Patent Application Publication Jul. 3, 2003 Sheet 1 of 12 US 2003/0125492 A1



Family:

Publication number	Publication date	Application number	Application date
BRPI0006248 A	20010918	BR2000PI06248	20001129
CN1195785 C	20050406	CN20001034263	20001129
CN1303875 A	20010718	CN20001034263	20001129
DE60048552 D1	20140612	DE20006048552	20001117
EP1103570 A2	20010530	EP20000125128	20001117
EP1103570 A3	20030205	EP20000125128	20001117
EP1103570 B1	20140507	EP20000125128	20001117
ID28506 A	20010531	ID20000001011	20001122
JP2001220417 A2	20010814	JP20000361993	20001128
JP3683176 B2	20050817	JP20000361993	20001128
KR100481059 B1	20050407	KR20000071474	20001129
KR20010082560 A	20010830	KR20000071474	20001129
MY135684 A	20080630	MY20000005303	20001110
TH48505 A	20011130	TH20001004379	20001114
US2003125492 AA	20030703	US20020160757	20020601
US6727315 BB	20040427	US20020160757	20020601

Priority:

JP19990338205 19991129 US20000710446 20001110 EP20000125128 20001117
JP20000361993 20001128 US20020160757 20020601

Probable Assignee: NIPPON CATALYTIC CHEM IND

Assignee(s): (std): NIPPON CATALYTIC CHEM IND ; NIPPON SHOKUBAI CO LTD

Assignee(s): YAMAMOTO MASAYA ; UNO TORU ; YAMASHITA AKIHIKO ; TANAKA HIROMICHI ; ONDA YOSHIYUKI ; NIPPON SHOKUBAI CO ; HIRANO NAOKO ; HIRATA TSUYOSHI

Inventor(s): (std): MASAYA YAMAMOTO ; KYO UNO ; KOMICHI TANAKA ; KAMAKA YAMAMOTO ; HIROMICHI TANAKA ; AKIHIKO YAMASHITA ; YAMASHITA AKIHIKO ; YAMAMOTO MASAYA ; UNO TORU ; TANAKA HIROMICHI ; ONDA YOSHIYUKI ; HIRATA TSUYOSHI ; HIRANO NAOKO ; HIRATA TAKESHI ; YOSHIUKI ONDA ; YAMAMOTO KAMAKA ; UNO KYO ; TSUYOSHI HIRATA ; TORU UNO ; TANAKA KOMICHI ; NAOKO HORANO ;

HORANO NAKO ; ONDA YOSHIUKI

Inventor(s): HIRATA TSUYOSHI KOBE SHI ; HIRANO NAKO NISHINOMIYA SHI ; TANAKA HIROMICHI TOYONAKA SHI ;
UNO TORU YOKOHAMA SHI ; YAMAMOTO MASAYA YOKOHAMA SHI ; YAMASHITA AKIHIKO SUITA SHI ;
YOSHIYUKI ONDA ; NAKO HIRANO

Agent(s): PATENTANWAELE HENKEL BREUER AND PARTNER; HENKEL BREUER AND PARTNER

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

Title: Anti-shrinkage agent for hydraulic material

Abstract: Source: US2002004559A [EN] The present invention is related to a shrinkage reducing agent for hydraulic materials which comprises at least one polymer selected from the group consisting of (a) a polymer having a structure derived from the residue of a compound containing 2 to 30 carbon atoms and one active hydrogen atom by the binding thereto of one oxyalkylene chain having a carboxyl-containing side chain, (b) a polymer having a structure derived from the residue of a compound containing 4 to 30 carbon atoms and two active hydrogen atoms by the binding thereto of at least one oxyalkylene chain having a carboxyl-containing side chain, (c) a polymer having a structure derived from the residue of a compound containing 1 to 30 carbon atoms and at least three active hydrogen atoms by the binding thereto of at least one oxyalkylene chain having a carboxyl-containing side chain and (d) a polymer having a structure derived from the residue of an amine by the binding thereto one oxyalkylene chain having a carboxyl-containing side chain.

Classifications:

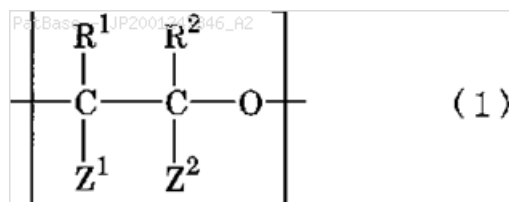
International (IPC 8-9): C04B24/04 C04B24/12 C04B24/26 C04B24/28 C04B24/32 C04B28/02 C08F283/06 (Advanced/Invention); C04B103/60 C04B24/28 (Advanced/Non-invention); C04B24/00 C04B28/00 C08F283/00 (Core/Invention)

International (IPC 1-7): C04B103/60 C04B13/24 C04B13/26 C04B14/00 C04B24/04 C04B24/12 C04B24/26 C04B24/28 C04B24/32 C04B7/35 C08F222/10 C08F283/06 C08J3/03 C08K5/06 C08L71/02

CPC: C04B24/2647 C04B24/267 C04B24/2694 C04B2111/34

European: C04B24/26K C04B24/26K10 C04B24/26R10 C04B24/26V10 C04B24/32 M04B111/34

US: 106/729 524/5 525/187 525/187P 525/531 526/320 526/320S 526/329.6 526/329.600S



Family:

Publication number	Publication date	Application number	Application date
DE60018694 D1	20050421	DE20006018694	20001228
DE60018694 T2	20060126	DE20006018694T	20001228
EP1112984 A1	20010704	EP20000403695	20001228
EP1112984 B1	20050316	EP20000403695	20001228
JP2001247346 A2	20010911	JP20000385213	20001219
JP4437369 B2	20100324	JP20000385213	20001219
KR100622878 B1	20060911	KR20000084251	20001228
KR20010086285 A	20010910	KR20000084251	20001228
SG98009 A1	20030820	SG20000007619	20001222
US2002004559 AA	20020110	US20000749619	20001228
US6384141 BB	20020507	US20000749619	20001228

Priority:

JP19990375398 19991228 JP20000385213 20001219

Probable Assignee: NIPPON SHOKUBAI CO LTD

Assignee(s): (std): NIPPON CATALYTIC CHEM IND ; NIPPON SHOKUBAI CO LTD

Assignee(s): NIPPON SHOKUBAI CO

Inventor(s): (std): HIRATA TAKESHI ; HIRATA TSUYOSHI ; KOICHIRO NAGARE ; NAGARE KOICHIRO ; TSUYOSHI HIRATA

Designated states: DE FR IT

Title: HIGH SOLIDS PUMPABLE CEMENT ADDITIVES

Abstract: Source: US2004149172A [EN] Exemplary liquid cement additive compositions have high solids loading which includes alkali or alkaline earth metal salts and other cement additive components. The liquid carrier is preferably aqueous in nature, although nonaqueous carriers are possible, and the carrier is modified using a viscosity modifying agent and dispersant to help load salt and other solids in high level amounts. Thus, methods for making the liquid cement additive compositions are also disclosed.

Classifications:

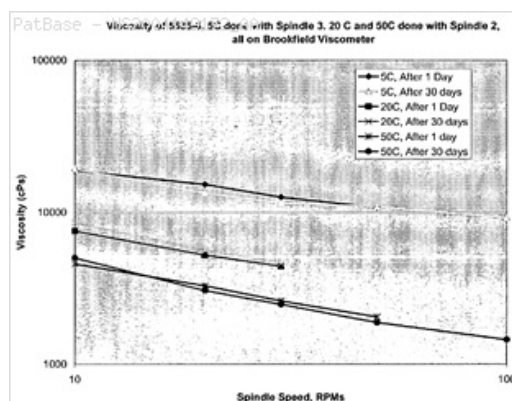
International (IPC 8-9): C04B24/00 C04B24/02 C04B24/12 C04B24/24 C04B40/00 (Advanced/Invention); C04B24/00 C04B24/02 C04B24/12 C04B24/24 (Advanced/Non-invention); C04B24/00 C04B40/00 (Core/Invention); C04B (Subclass/Invention); C04B (Subclass/Non-invention)

International (IPC 1-7): C04B C04B0/0000 C04B24/00 C04B24/02 C04B24/12 C04B24/24 C04B40/00

CPC: C04B40/0039 C04B2103/52 C04B2111/00146

European: C04B40/00D4 M04B103/52 M04B111/00M16

US: 106/724 106/729 106/729S 106/73 106/730 106/730S 106/802 106/802S 106/804 106/809 106/809S 106/815 106/815S 106/819 106/819S 106/823 106/823S



Family:

Publication number	Publication date	Application number	Application date
BRPI0406816 A	20051227	BR2004PI06816	20040116
BRPI0406816 B1	20140701	BR2004PI06816	20040116
CN100528787 C	20090819	CN200480003229	20040116
CN1745048 A	20060308	CN200480003229	20040116
EP1587768 A2	20051026	EP20040702998	20040116
EP1587768 A4	20110817	EP20040702998	20040116
HK1087686 A1	20100611	HK20060107963	20060717
HK1087686 A3	20061020	HK20060107963	20060717
IN03031DN2005 A	20070525	IN2005DN03031	20050706
IN254762 B	20121221	IN2005DN03031	20050706
KR101091323 B1	20111207	KR20057013909	20050728
KR20060014363 A	20060215	KR20057013909	20040116
MXPA05007518 A1	20050921	MX2005PA07518	20040116
TR200502976 T2	20050921	TR20050002976T	20040116
US2004149172 AA	20040805	US20030354809	20030130
US6800129 BB	20041005	US20030354809	20030130
WO04069762 A2	20040819	WO2004US01213	20040116
WO04069762 A3	20041021	WO2004US01213	20040116
WO04069762 B1	20041216	WO2004US01213	20040116
ZA200506084 A	20060426	ZA20050006084	20050729

Priority:

US20030354809 20030130 WO2004US01213 20040116

Probable Assignee: W R GRACE AND CO CONN

Assignee(s): (std): GRACE W R AND CO

Assignee(s): JARDINE LESLIE A ; W R GRACE AND CO CONN ; WR GRACE AND CO CONN ; WR GRACE AND CO ; W R GRACE AND CO ; RANGANATHAN ANANDAKUMAR ; MYERS DAVID F ; DEUTSCHE BANK NEW YORK BRANCH COLLATERAL AGENT AG AS ; GCP APPLIED TECHNOLOGIES INC ; GOLDMAN SACHS BANK USA COLLATERAL AGENT AS

Inventor(s): (std): ANANDAKUMAR RANGANATHAN ; RANGANATHAN ANANDAKUMAR ; MYERS DAVID F ; JARDINE LESLIE A ; ANANDAKUMAR JARDINE LESLIE A M

Inventor(s): DAVID F MYERS ; LESLIE A JARDINE ; JARDINE LESLIE A MYERS DAVID F RANGANATHAN ANANDAK

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

Title: OLEFIN BLOCK COPOLYMERS **PROCESSES** FOR PRODUCING THE SAME AND USES THEREOF

Abstract: Source: US2003055179A [EN] The present invention provides polymers having any one of properties including affinity for metals or polar resins, impact resistance, mar resistance, heat resistance, rigidity, oil resistance, transparency, anti-fogging properties, electric insulating properties, high breakdown voltage, coating properties, low-temperature flexibility, moldability, environmental degradation, fluidity and dispersibility, and provides a **process** for preparation thereof. The olefin block copolymers (A-1) of the invention are represented by the formula (I) PO1-g1-B1 (I) (wherein PO1 is a segment composed of repeating units derived from an olefin having 2 to 20 carbon atoms, g1 is an ester, ether, amide, imide, urethane, urea, silylether or carbonyl linkage, and B1 is a segment containing an unsaturated hydrocarbon or a hetero atom). The olefin block copolymers are suitable for uses in adhesives; various molded articles such as construction and civil engineering materials, automobile interior and exterior materials, gasoline tanks, electric and electronic parts, medical care and sanitation materials, materials of miscellaneous goods, resin materials having environmental degradation properties, films and sheets; modifiers and dispersions.

Classifications:

International (IPC 8-9): A01G13/02 A01G9/14 A61F13/15 A61F13/51 A61F13/511 B32B27/32 B60K15/03 C08F2/00 C08F2/44 C08F293/00 C08F297/00 C08F297/02 C08F297/08 C08F4/642 C08F8/00 C08F8/12 C08F8/18 C08F8/30 C08F8/34 C08F8/42 C08G81/00 C08G85/00 C08J3/11 C08J5/00 C08J5/18 C08K9/04 C08L101/00 C08L101/16 C08L21/00 C08L53/00 C08L87/00 C09D11/02 C09D123/00 C09D153/00 C09D201/00 C09J153/00 C09J201/00 D04H3/007 D04H3/03 D04H3/147 D04H3/153 D04H3/16 E04C2/20 (Advanced/Invention); C08F299/00 (Advanced/Non-invention); A01G13/02 A01G9/14 A61F13/15 B32B27/32 B60K15/03 C08F2/00 C08F2/44 C08F293/00 C08F297/00 C08G81/00 C08G85/00 C08J3/02 C08J5/00 C08J5/18 C08K9/00 C08L101/00 C08L21/00 C08L53/00 C08L87/00 C09D11/02 C09D123/00 C09D153/00 C09D201/00 C09J153/00 C09J201/00 D04H3/00 D04H3/02 D04H3/14 D04H3/16 E04C2/10 (Core/Invention)

International (IPC 1-7): A01G13/02 A01G9/14 A61F13/15 A61F13/511 B32B27/32 B60K15/03 C08F2/00 C08F2/44 C08F279/00 C08F293/00 C08F297/00 C08F297/02 C08F297/08 C08F299/00 C08F8/00 C08F8/12 C08F8/18 C08F8/30 C08F8/34 C08F8/42 C08G81/00 C08G85/00 C08J3/11 C08J5/00 C08J5/18 C08K9/04 C08L101/00 C08L21/00 C08L53/00 C08L87/00 C09D11/02 C09D123/00 C09D153/00 C09D201/00 C09J153/00 C09J201/00 D04H3/00 D04H3/03 D04H3/14 D04H3/16 E04C2/20

CPC: B32B5/022 B32B27/08 B32B27/20 B32B2535/00 B32B2605/08 B32B27/32 C08F293/00 C08F297/08 C08J5/18 C08J2353/00 C08L53/00 Y02A40/252

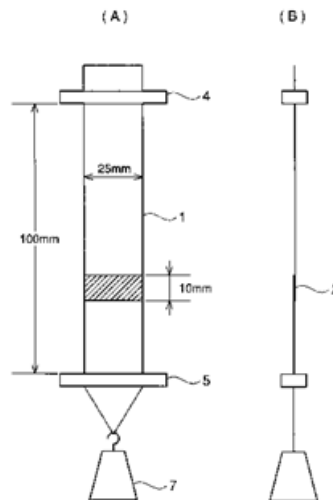
European: B32B27/32 C08F293/00 C08F297/08 C08J5/18 C08L53/00 M08J353/00

US: 525/242 525/242P 525/313 525/313S 525/326.1 525/418 525/419 525/420

PatBase - US2003055179_AA

Patent Application Publication Mar. 28, 2003 Sheet 1 of 5 US 2003/055179 A1

Fig. 1



Family:

Publication number	Publication date	Application number	Application date
■ CN100516120 C	20090722	CN20018004000	20010118
■ CN1395588 A	20030205	CN20018004000	20010118
■ DE60112565 D1	20050915	DE20016012565	20010118
■ DE60112565 T2	20060629	DE20016012565T	20010118
■ EP1275670 A1	20030115	EP20010942647	20010118
■ EP1275670 A4	20040331	EP20010942647	20010118
■ EP1275670 B1	20050810	EP20010942647	20010118
■ JP2001270922 A2	20011002	JP20010013068	20010122
■ JP2001270923 A2	20011002	JP20010013070	20010122
■ JP2001270924 A2	20011002	JP20010013069	20010122
■ JP2001278928 A2	20011010	JP20010016069	20010124
■ JP2001278929 A2	20011010	JP20010016070	20010124
■ JP2001278930 A2	20011010	JP20010018285	20010126
■ JP2001278931 A2	20011010	JP20010018299	20010126
■ JP2001278932 A2	20011010	JP20010018300	20010126
■ JP2001288272 A2	20011016	JP20010025811	20010201
■ JP2001288372 A2	20011016	JP20010025810	20010201
■ JP2001288443 A2	20011016	JP20010025809	20010201
■ JP2001342256 A2	20011211	JP20010076944	20010316
■ JP2001348413 A2	20011218	JP20010106007	20010404
■ JP2002012639 A2	20020115	JP20010106006	20010404
■ JP2002037825 A2	20020206	JP20010141562	20010511
■ JP2002053632 A2	20020219	JP20010141561	20010511
■ JP2002097237 A2	20020402	JP20000288181	20000922
■ JP4463435 B2	20100519	JP20010013070	20010122
■ JP4472195 B2	20100602	JP20010013069	20010122
■ JP4526731 B2	20100818	JP20010141561	20010511
■ JP4574027 B2	20101104	JP20010025809	20010201
■ JP4610784 B2	20110112	JP20010141562	20010511

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JP4651795 B2	20110316	JP20000288181	20000922
JP4684453 B2	20110518	JP20010106007	20010404
JP4772201 B2	20110914	JP20010106006	20010404
KR20020063300 A	20020801	KR20027008808	20010118
US2003055179 AA	20030320	US20020181553	20020719
US7160949 BB	20070109	US20020181553	20020719
WO0153369 A1	20010726	WO2001JP00298	20010118

Priority:

JP20000017848 20000121	JP20000017849 20000121	JP20000017850 20000121
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Probable Assignee: MITSUI CHEMICALS INC

Assignee(s): (std): HAMA SHUNICHI ; KANEKO HIDEYUKI ; KASHIWA NORIO ; KODA TAKU ; KOJOH SHINICHI ; MITSUI CHEMICALS INC ; OTA SEIJI ; MORIYA SATORU ; MORI RYOJI ; TAN JUNJI ; NOBORI TADAHITO ; MATSUGI TOMOAKI

Inventor(s): (std): RYOJI MORI ; SATORU MORIYA ; SEIJI OTA ; TAN JUNJI ; OTA SEIJI ; MORIYA SATORU ; MORI RYOJI ; MATSUKI TOMOAKI ; KASHIWA NORIO ; KANDA HIROSHI ; NOBORI TADAHITO ; MATSUGI TOMOAKI ; KOJOH SHINICHI ; KODA TAKU ; KANEKO HIDEYUKI ; HAMA SHUNICHI ; SHUNICHI HAMA ; SHINICHI FURUJO ; NORIO KASHIWA ; MEGUMI MASUTADA ; JUNJI AKASHI ; HIRAKU KAMITA ; HIDEYUKI KANEKO ; KOJO SHINICHI ; CHIAKI MATSUGI

Inventor(s): AKASHI JUNJI ; KAMITA HIRAKU ; FURUJO SHINICHI ; MATSUGI CHIAKI ; MASUTADA MEGUMI

Agent(s): BIRCH STEWART KOLASCH AND BIRCH LLP

Designated states: CN DE FR GB KR SG US

Title: Cement additive, cement composition and polycarboxylic acid polymer

Abstract: Source: US6486260B [EN] The present invention has for its object to provide an economical cement additive capable of reducing the amount of water to be added to cement compositions and still capable of providing cement compositions with high fluidity, good processability, and a proper level of air-entraining ability resulting from sufficient foaming prevention, at low addition levels, a cement composition in which the above cement additive is used, and a polycarboxylic acid polymer excellent in dispersing effects on cement particles or inorganic powders or pigments and capable of being used with advantage as a cement additive or a dispersant for various uses. The invention provides, among others, a cement additive comprising, as main component, a polycarboxylic acid polymer (X) which has; repeating units (A), (B), (C) and (D), wherein none of the proportion of occurrence S1 of repeating unit (A) the proportion of occurrence T1 of repeating unit (B) and the proportion of occurrence E1 of repeating unit (C) is not equal to zero, the average number n of moles of an oxyalkylene group as added in repeating unit (B) is not less than 110, and that the weight average molecular weight of said polycarboxylic acid polymer is not less than 10000.

Classifications:

International (IPC 8-9): C04B24/16 C04B24/26 C04B28/02 C08F20/04 C08F222/02 C08F222/20 C08F290/06 C08F8/14 C08G65/04

C08L71/02 (Advanced/Invention);

C04B103/30 C04B103/32 C04B24/26 C08F290/06 (Advanced/Non-invention);

C04B24/00 C04B28/00 C08F20/00 C08F222/00 C08F290/00 C08F8/00

C08G65/00 C08L71/00 (Core/Invention);

C08F290/00 (Core/Non-invention)

International (IPC 1-7): C04B103/30 C04B103/32 C04B24/16 C04B24/26 C08F20/04 C08F222/02 C08F222/20 C08F290/06 C08F8/14 C08G65/04 C08L71/02

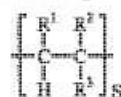
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European: C04B24/26K10 C08F222/02 C08F222/20 M04B103/30

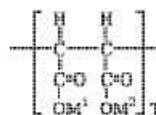
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US: 525/327.7 525/339 525/384

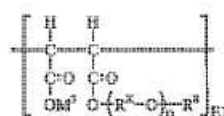
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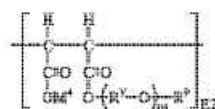
I



II



III



IV

Family:

Publication number	Publication date	Application number	Application date
■ CN1113046 C	20030702	CN19991027479	19991228
■ CN1261599 A	20000802	CN19991027479	19991228
■ DE69932222 D1	20060817	DE19996032222	19991228
■ DE69932222 T2	20070705	DE19996032222T	19991228
■ EP1016638 A2	20000705	EP19990403296	19991228
■ EP1016638 A3	20010711	EP19990403296	19991228
■ EP1016638 B1	20060705	EP19990403296	19991228
■ JP2000247707 A2	20000912	JP19990368550	19991227
■ JP2000319382 A2	20001121	JP19990133330	19990513
■ JP4502421 B2	20100714	JP19990133330	19990513
■ KR100519581 B1	20051007	KR19990063466	19991228
■ KR20000057113 A	20000915	KR19990063466	19991228
■ US6486260 BA	20021126	US19990472968	19991228

Priority:

JP19980373893 19981228 JP19990133330 19990513 JP19990368550 19991227

Probable Assignee: NIPPON SHOKUBAI CO LTD

Assignee(s): (std): NIPPON CATALYTIC CHEM IND

Assignee(s): NIPPON SHOKUBAI CO ; NIPPON SHOKUBAI CO LTD

Inventor(s): (std): HIRATA SSUYOSHI ; KEN HIRATA ; KOKATSU KAWAUE ; TSUTOMU YUASA ; YUASA TSUTOMU ; HIRATA TSUYOSHI ; KAWAKAMI HIROKATSU ; HIRATA TAKESHI

Inventor(s): HIRATA KEN ; KAWAUE KOKATSU

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

Title: POWDERY CEMENT DISPERSANT

Abstract: Source: US2006229388A [EN] The present invention provides a means to express superior dispersibility and to be easily pulverized in the polycarboxylic acid type cement dispersant. The purpose is attained by a powdery cement dispersant having, as a main component, a polycarboxylic acid type copolymer having a repeating unit (I) derived from an unsaturated polyalkyleneglycol type monomer, a repeating unit (II) derived from an unsaturated carboxylic acid type monomer and a repeating unit (III) derived from a branched compound having a branched structure containing 3 or more polyalkyleneimine chains or polyoxyalkylene chains in a molecule, or a powdery cement dispersant comprising a polycarboxylic acid type copolymer (A) having a repeating unit (IV) derived from an unsaturated polyalkyleneglycol type monomer and a repeating unit (V) derived from an unsaturated carboxylic acid type monomer and a branched compound (B) with a branched structure containing 3 or more polyalkyleneimine chains or polyoxyalkylene chains in a molecule.

Classifications:

International (IPC 8-9): C04B24/26 C04B24/28 C04B24/32 C08F216/14 C08F22/06 C08F220/28 C08F290/06 C08G61/12 C08G63/685 C08G63/91 C08G65/32 (Advanced/Invention);

C04B103/40 C08G61/12 C08G63/685 C08G63/91 (Advanced/Non-invention);

C04B24/00 C08F216/00 C08F220/00 C08F290/00 C08G61/00 C08G63/00 C08G65/00 (Core/Invention)

International (IPC 1-7): C04B24/28

CPC: C04B2103/32 C04B40/0039 C04B2103/0057 C08F220/06 C08F220/26 C04B24/2647 C04B24/2652 C04B40/0042 C04B2103/408

European: C04B24/26K10 C04B24/26N C04B40/00D4B C08F220/26 M04B103/00P12 M04B103/32 M04B103/40P M08F220/06

US: 524/5 524/5P

Family:

Publication number	Publication date	Application number	Application date
■ CN1939868 A	20070404	CN200610143176	20060331
■ EP1707542 A2	20061004	EP20060006508	20060329
■ IN00267KO2006 A	20070824	IN2006KO00267	20060327
■ JP2006306716 A2	20061109	JP20060096412	20060331
■ JP2007238387 A2	20070920	JP20060064590	20060309
■ KR20060105614 A	20061011	KR20060029165	20060330
■ US2006229388 AA	20061012	US20060393006	20060329

Priority:

JP20050104638 20050331 JP20060064590 20060309 JP20060096412 20060331

Probable Assignee: NIPPON SHOKUBAI CO LTD

Assignee(s): (std): NIPPON CATALYTIC CHEM IND

Assignee(s): NIPPON SHOKUBAI CO ; NIPPON SHOKUBAI CO LTD

Inventor(s): (std): HIROMICHI KAWAKAMI HIROKATSU K ; KAWAHARA KAZUNOBU ; TANAKA HIROMICHI ; KAWAKAMI HIROKATSU ; KAWAHARA WASHIN

Inventor(s): KAWAKAMI HIROKATSU KAWAHARA KAZUNOBU TANAKA HIROMICHI ; KAWAKAMI HIKOKATSU ; KAWAKAMI HIROKATSU KAWAHARA KAZUNOBU TANAKA ; KAWAKAMI HIROKATSU KAWAHARA KAZUNOBU TANAKA HIROMI

Agent(s): FISH AND RICHARDSON PC

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Title: **Cement additive** and **cement** composition using same

Abstract: Source: US6165262A [EN] A novel **cement** admixture is provided which fulfills the function as a thickener basically, possesses an ability to inhibit segregation of materials, excels in workability as well, and permits a decrease in the amount of addition while keeping these functions intact. The **cement** admixture is characterized by comprising a **cement additive** formed of a polymer resulting from polymerizing a monomer mixture having methyl acrylate as a main component thereof and a **cement** water reducing agent.

Classifications:

International (IPC 8-9): C04B24/26 C04B26/06

C04B28/04 (Advanced/Invention);

C04B103/44 C04B111/10 C04B26/06 (Advanced/Non-invention);

C04B24/00 C04B28/00 (Core/Invention)

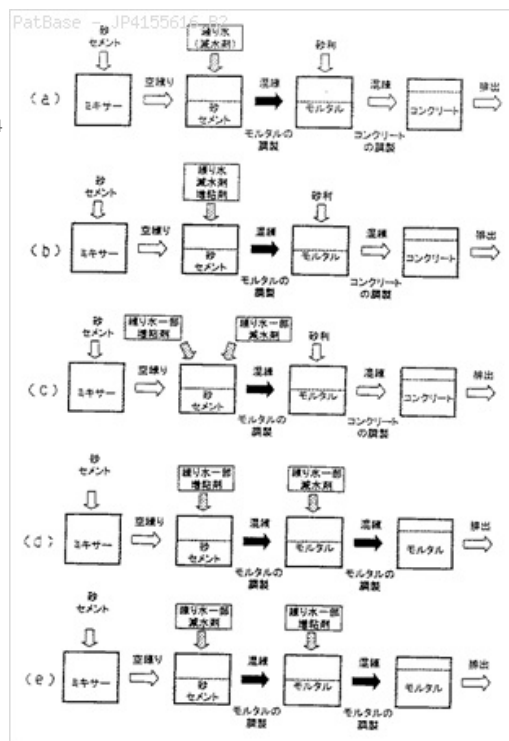
International (IPC 1-7): C04B103/44 C04B111/10 C04B24/04 C04B24/24

C04B24/26 C04B26/06 C04B28/04

CPC: C04B24/2641

European: C04B24/26K

US: 106/724 106/802 106/823 524/4



Family:

Publication number	Publication date	Application number	Application date
■ CN1102917 C	20030312	CN19991000865	19990120
■ CN1226531 A	19990825	CN19991000865	19990120
■ DE69938880 D1	20080724	DE19996038880	19990118
■ EP0930279 A1	19990721	EP19990300295	19990118
■ EP0930279 B1	20080611	EP19990300295	19990118
■ JP11209154 A2	19990803	JP19980009133	19980120
■ JP4155616 B2	20080924	JP19980009133	19980120
■ KR100488440 B1	20050511	KR19990001502	19990119
■ KR19990067993 A	19990825	KR19990001502	19990119
■ US6165262 A	20001226	US19990234387	19990120

Priority:

JP19980009133 19980120 KR19990001502 19990119

Probable Assignee: LANTIQU DEUTSCHLAND GMBH

Assignee(s): (std): NIPPON CATALYTIC CHEM IND

Assignee(s): NIPPON SHOKUBAI CO ; NIPPON SHOKUBAI CO LTD ; LANTIQU DEUTSCHLAND GMBH

Inventor(s): (std): HIRATA TSUYOSHI ; KONO KATSUYUKI ; YUASA TSUTOMU ; HIRATA TAKESHI

Inventor(s): TSUYOSHI HIRATA ; TSUTOMU YUASA ; KATSUYUKI KONO

Agent(s): BASSIL NICHOLAS CHARLES ET AL

Designated states: DE FR IT

Title: **CEMENT** ADMIXTURE AND **CEMENT** COMPOSITION

Abstract: Source: US2003106464A [EN] It is an object of the present invention to provide a **cement** admixture which can show not only a high dispersing ability and a slump loss preventing effect but also a viscosity reducing effect and can show these characteristics even in the high water reduction ratio range, and a **cement** composition in which this admixture is used. A **cement** admixture comprising, as three essential constituents, a copolymer (A), an unsaturated (poly)alkylene glycol ether monomer (a) and an unpolymerizable (poly)alkylene glycol (B) not containing an alkenyl group, wherein the content of the unsaturated (poly)alkylene glycol ether monomer (a) is 1 to 100 percent by mass relative to the copolymer (A) and the content of the unpolymerizable (poly)alkylene glycol (B) not containing an alkenyl group is 1 to 50 percent by mass relative to the copolymer (A), the copolymer (A) comprising, as essential constituent units, a constituent unit (I) derived from the unsaturated (poly)alkylene glycol ether monomer (a) and a constituent unit (II) derived from an **unsaturated carboxylic acid** monomer (b), with the constituent unit (I) and constituent unit (II) each accounting for not less than 1 percent by mass based on all the constituent units, and the **unsaturated carboxylic acid** monomer (b) being an unsaturated monocarboxylic acid monomer.

Classifications:

International (IPC 8-9): C04B24/18 C04B24/22 C04B24/26 C04B24/30 C04B24/32 C04B28/02 C08F290/06 C08G65/26 C08G65/332

C08L71/02 (Advanced/Invention);

C04B103/32 (Advanced/Non-invention);

C04B24/00 C04B28/00 C08F290/00 C08G65/00

C08L71/00 (Core/Invention)

International (IPC 1-7): C04B103/32 C04B24/04 C04B24/26 C04B24/32 C04B28/02 C08F290/06 C08L31/02

CPC: C04B24/2647 C04B2103/308 C04B2103/32 C08G65/2609 C08G65/3322 C08L71/02 C08L2205/05

European: C04B24/26K C04B24/26K10 C04B24/32 C08G65/26C1L C08G65/332D C08L71/02 M04B103/30S M04B103/32 M08L205/05

US: 106/728 106/823 106/823S 524/556 524/558

試料番号	組成成分	試験項目	試験結果	試験結果	試験結果	試験結果	試験結果	試験結果	試験結果
1	M-1	2000-05-01	2000-05-01	2000-05-01	2000-05-01	2000-05-01	2000-05-01	2000-05-01	2000-05-01
2	M-2	2000-05-01	2000-05-01	2000-05-01	2000-05-01	2000-05-01	2000-05-01	2000-05-01	2000-05-01
3	M-3	2000-05-01	2000-05-01	2000-05-01	2000-05-01	2000-05-01	2000-05-01	2000-05-01	2000-05-01

Family:

Publication number	Publication date	Application number	Application date
JP2003171156 A2	20030617	JP20020275390	20020920
JP4233294 B2	20090304	JP20020275390	20020920
US2003106464 AA	20030612	US20020253425	20020925
US6911494 BB	20050628	US20020253425	20020925

Priority:

JP20010298756 20010928 JP20020275390 20020920

Probable Assignee: NIPPON SHOKUBAI CO LTD

Assignee(s): (std): NIPPON CATALYTIC CHEM IND

Assignee(s): NIPPON SHOKUBAI CO ; NIPPON SHOKUBAI CO LTD

Inventor(s): (std): HIRATA TAKESHI ; HIRATA TSUYOSHI ; ONDA YOSHIYUKI ; TANAKA HIROMICHI ; UNO TORU ; YAMASHITA AKIHIKO

Agent(s): SUGHRUE MION PLLC

Title: **CEMENT** ADMIXTURE AND **CEMENT** COMPOSITION

Abstract: Source: US2004204517A [EN] The **cement** admixture of the present invention can improve the workability by displaying sufficient viscosity decreasing ability and initial dispersing ability even under a low temperature environment as well as high dispersing ability and dispersion retaining ability even in a high water reducing ratio range. The above-mentioned **cement** admixture comprises four components of a copolymer (A) containing a constituent unit (I) derived from the unsaturated (poly)alkylene glycol ether monomer (a) and a constituent unit (II) derived from a maleic acid monomer (b), a specific unsaturated (poly)alkylene glycol ether monomer (a), a non-polymerizable (poly)alkylene glycol (B) having no alkenyl group, and a polymer (C) having an oxyalkylene group or a **polyoxyalkylene** group and a carboxyl group, which is different from the copolymer (A).

Classifications:

International (IPC 8-9): C04B24/02 C04B24/26 C04B24/32 C04B28/02 C08F20/28 C08F290/06 C08G65/332 C08L71/02 (Advanced/Invention); C04B103/30 C04B24/26 C04B28/02 C08F20/28 C08F290/06 (Advanced/Non-invention);

C04B24/00 C04B28/00 C08F20/00 C08F290/00 C08G65/00 C08L71/00 (Core/Invention)

International (IPC 1-7): C04B24/26 C04B28/02 C08F20/28 C08F290/06 C08K3/00

CPC: C04B40/0039 C08G65/3322 C08L71/02 C08L2205/05 C04B28/02

European: C08G65/332D C08L71/02 M08L205/05

US: 524/2 524/2P 524/376 524/377 524/4 524/5

PatBase - TWI297001_B
1297001

換、指定代表圖：

(一)本圖指定代表圖為：第(無)圖。

(二)本代表圖之元件代表符號簡單說明：

無

術、本案若有化學式時，請揭示最能顯示發明特徵的化學式：

Family:

Publication number	Publication date	Application number	Application date
■ CN100430429 C	20081105	CN200480008993	20040302
■ CN1768015 A	20060503	CN200480008993	20040302
■ EP1620371 A1	20060201	EP20040716351	20040302
■ JP2006522734 T2	20061005	JP20060507653T	20040302
■ KR100845161 B1	20080709	KR20057019009	20040302
■ KR20050109619 A	20051121	KR20057019009	20040302
■ TW200424145 A	20041116	TW20040105641	20040304
■ TWI297001 B	20080521	TW20040105641	20040304
■ US2004204517 AA	20041014	US20040791730	20040304
■ US7253220 BB	20070807	US20040791730	20040304
■ WO04089845 A1	20041021	WO2004JP02575	20040302

Priority:

JP20030104419 20030408 WO2004JP02575 20040302 WO2004JP02575 20051006

Probable Assignee: NIPPON SHOKUBAI CO LTD

Assignee(s): (std): ONDA YOSHIYUKI ; TANAKA HIROMICHI ; YAMASHITA AKIHIKO ; UNO TORU ; NIPPON CATALYTIC CHEM IND

Assignee(s): NIPPON SHOKUBAI CO ; NIPPON SHOKUBAI CO LTD

Inventor(s): (std): YAMASHITA AKIHIKO ; UNO TORU ; TORU UNO ; TANAKA HIROMICHI ; ONDA YOSHIYUKI ; HIROMICHI TANAKA ; HIRATA TSUYOSHI ; AKIHIKO YAMASHITA ; YOSHIYUKI YAMASHITA AKIHIKO TA ; YOSHIYUKI ONDA

Inventor(s): YAMASHITA AKIHIKO TANAKA HIROMICHI UNO TORU ; YAMASHITA AKIHIKO TANAKA HIROMICHI UNO TORU ONDA Y ; YAMASHITA AKIHIKO TANAKA HIROMICHI UNO TORU ONDA YOSHIYUKI

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

Title: Comonomer compositions for production of imide-containing polyamino acids

Abstract: Source: US2002161171A [EN] Described are monomer compositions containing aspartic acid and other comonomers, such as monosodium aspartate, and methods for their production. The monomer compositions can be polymerized, particularly by thermal polymerization, to obtain useful and novel imide-containing polyamino acids, i.e., copolymers containing polymerized aspartate units and succinimide units. The invention is also directed to the resulting polymeric materials, their methods of production, and their uses. Uses of the imide-containing polyamino acids include, for example, dispersants in detergents and cleansers, water-treatment chemicals as anti-scalants and corrosion inhibitors, personal-care additives for softening and moisturizing, and many others.

Classifications:

International (IPC 8-9): A61K8/00 A61K8/72 A61K8/88 A61Q19/00 A61Q5/00 A61Q5/02 A61Q5/12 C07B61/00 C07C227/40 C08C1/14 C08G63/66 C08G65/34 C08G69/04 C08G69/08 C08G69/10 C08G73/00 C08G73/02 C08G73/10 C08L79/08 C09D179/08 C09J179/08 (Advanced/Invention); C07C229/24 C08G73/10 (Advanced/Non-invention); A61K8/00 A61K8/72 A61Q19/00 A61Q5/00 A61Q5/02 A61Q5/12 C07C227/00 C08C1/00 C08G63/00 C08G65/00 C08G69/00 C08G73/00 C08L79/00 C09D179/00 C09J179/00 (Core/Invention); C07C229/00 (Core/Non-invention)

International (IPC 1-7): A61K7/00 A61K7/06 A61K7/075 A61K7/08 A61K7/48 C07B61/00 C07C227/40 C08G63/44 C08G69/04 C08G69/08 C08G69/10 C08G73/00 C08G73/02 C08G73/10 C08L67/00 C08L79/08 C09D179/08 C09J179/08 C11D3/37 D21H17/54

CPC: C08G63/668 Y02P20/544 C07C227/40 A61K8/88 A61Q5/02 A61Q5/12 A61Q19/00 C08G73/1092 C08L79/08

European: A61K8/88 A61Q5/00 C07C227/40 C08G63/668 C08G69/10 C08G73/10T C08L79/08 K61Q5/02 K61Q5/12 M07C229/24

US: 424/400 424/401 525/418 525/419 525/419S 525/420 525/539 525/540 528/310 528/310P 528/314 528/314S 528/315 528/315P 528/315S 528/322 528/328 528/328P 528/328S 528/354 528/361 528/363 528/363P 528/363S 528/367 528/425 528/486 528/486S 528/503

PatBase - US2002161171_AA

Patent Application Publication Oct. 31, 2002 Sheet 1 of 17 US 2002/0161171 A1

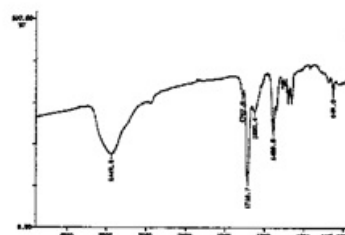


Figure 1. Infrared spectrum of poly(succinimide). Note the characteristic imide peak at $\sim 1716 \text{ cm}^{-1}$. This poly(succinimide) was produced via thermal polymerization of aspartic acid at 240°C for 8 hours, yielding a completely water-insoluble polymer of $M_w \sim 3000$. Note the evidence of some degree of ring-opened structure as suggested by the acidic peak at 1409 cm^{-1} , which is thought to signify branch points, each of which would terminate in a carboxylic group. The carboxylic groups are signified by the peak at 1409 cm^{-1} .

Family:

Publication number	Publication date	Application number	Application date
CN1500110 A	20040526	CN20028007870	20020206
CN1629206 A	20050622	CN200410088369	20041103
CN1629207 A	20050622	CN200410088370	20041103
CN1657552 A	20050824	CN200410085130	20020206
EP1368410 A2	20031210	EP20020717387	20020206
EP1528075 A1	20050504	EP20040292508	20041022
EP1528076 A1	20050504	EP20040292576	20041029
HK1061253 A3	20040910	HK20040104172	20040610
IN00773DE2004 A	20090619	IN2004DE00773	20040423
IN02091DE2004 A	20060818	IN2004DE02091	20041025
IN02092DE2004 A	20060908	IN2004DE02092	20041025
IN244190 B	20101126	IN2004DE00773	20040423
JP2004217937 A2	20040805	JP20040073652	20040316
JP2004530735 T2	20041007	JP20020563217T	20020206
JP2005146277 A2	20050609	JP20040317602	20041101
JP2005171227 A2	20050630	JP20040317594	20041101
KR20040010587 A	20040131	KR20037010373	20020206
KR20040030916 A	20040409	KR20047001654	20020206
KR20050042452 A	20050509	KR20040088306	20041102
KR20050042453 A	20050509	KR20040088311	20041102
US2002161171 AA	20021031	US20010776897	20010206
US2003120030 AA	20030626	US20020307377	20021202
US2003120031 AA	20030626	US20020307387	20021202
US2003125510 AA	20030703	US20020307349	20021202
US2004092704 AA	20040513	US20030698397	20031103
US2004092705 AA	20040513	US20030698398	20031103
US2004097693 AA	20040520	US20030698375	20031103
US2004102602 AA	20040527	US20030698411	20031103
US2004249114 AA	20041209	US20040834908	20040430
US2004249115 AA	20041209	US20040834909	20040430
US2005192426 AA	20050901	US20050059678	20050217

US2005222378 AA	20051006	US20050138525	20050527
US2006052577 AA	20060309	US20050263904	20051102
US2006211843 AA	20060921	US20060440140	20060525
US2007015901 AA	20070118	US20060327346	20060109
US6495658 BB	20021217	US20010776897	20010206
US6686440 BB	20040203	US20020307349	20021202
US6686441 BB	20040203	US20020307387	20021202
US6720405 BB	20040413	US20020307377	20021202
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US6903181 BB	20050607	US20030698411	20031103
US6919421 BB	20050719	US20030698397	20031103
US7074881 BB	20060711	US20030698375	20031103
US7256251 BB	20070814	US20050059678	20050217
WO02062871 A2	20020815	WO2002US03182	20020206
WO02062871 A3	20021128	WO2002US03182	20020206

Priority:

US20010776897 20010206	WO2002US03182 20020206	US20020307349 20021202
US20020307377 20021202	US20020307387 20021202	KR20037010373 20030806
US20030698397 20031103	US20030698398 20031103	US20030698375 20031103
US20030698411 20031103	US20040834908 20040430	US20040834909 20040430
US20050059678 20050217	US20050138525 20050527	US20050263904 20051102
US20060327346 20060109	US20060440140 20060525	

Probable Assignee: FOLIA INC

Assignee(s): (std): SIKES STEVEN C ; RINGSDORF LILLIAN ; SWIFT GRAHAM ; SIKES C STEVEN ; REDLICH GEORGE H ; SHOGREN RANDAL L ; FOLIA INC ; SIKES C S ; HUGHES KATHLEEN ; UNIV SOUTH ALABAMA ; WESTMORELAND DAVID G ; WILLETT JULIOUS L

Assignee(s): UNIVERSITY OF SOUTH ALABAMA ; WEHBY JOHN NOLAN ; SOUTH ALABAMA UNIV OF ; INC ; METROPOLITAN BANK ; MARTIN LONNIE DALE ; OAK BARK CORP ; SHOGREN RANDAL LEE ; GLOBAL GREEN PRODUCTS LLC ; HOLSER RONALD ALAN ; DOLL KENNETH M ; DOLL KENNETH MICHAEL ; FOLIA ; SOUTH AL AMA UNIVERSITY AB ; SOUTH ALABAMA UNIV

Inventor(s): (std): DOLL KENNETH M ; DOLL KENNETH MICHAEL ; GEORGE H REDLICH ; HOLSER RONALD ALAN ; HUGHES KATHLEEN ; LILLIAN RINGSDORF ; SIKES C S ; SIKES C SIKES ; WEHBY JOHN NOLAN ; SHOGREN RANDAL L ; SHOGREN RANDAL LEE ; WESTMORELAND DAVID G ; WILLETT JULIOUS L ; SWIFT GRAHAM ; SIKES STEVEN C ; SIKES SIKES C ; RINGSDORF LILLIAN ; REDLICH GEORGE H ; GRAHAM SWIFT ; SIKES C STEVEN

Inventor(s): GEORGE HREDLICH ; DOLL KENNETH ; WILLETT JULIOUS ; SIKES C ; WESTMORELAND DAVID ; REDLICH GEORGE ; SHOGREN RANDAL

Agent(s): STAMATIOS MYLONAKIS; BINGHAM MCCUTCHEN LLP; MYLONAKIS STAMATIOS; STAMATIOS

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 PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Title: **CEMENT** ADMIXTURE HAVING SUPERIOR WATER-REDUCING PROPERTIES AND METHOD FOR PREPARING THE SAME

Abstract: Source: US2004118324A [EN] The present invention provides a **cement** admixture that comprises at least one of a carboxylic acid based copolymer comprising a reactive surfactant as a monomer or a copolymer salt obtained by neutralizing the copolymer with an alkaline substance, a method for preparing the same, and a **cement** composition comprising the same. The **cement** admixture of the present invention increases composition fluidity even at a high water-reducing formulation by improving dispersibility of **cement** particles, prevents a decrease of fluidity as the function of time, and offers good workability by supplying an adequate amount of air flow continuously.

Classifications:

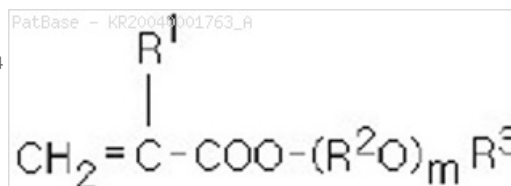
International (IPC 8-9): C04B103/30 C04B24/02 C04B24/16 C04B24/26 C04B26/06 C04B28/02 C08F216/12 C08F220/04 C08F220/28 C08F290/04 C08F290/06 C08F299/02 C08G65/26 C08L71/02 (Advanced/Invention); C04B103/30 C04B103/32 C04B26/06 (Advanced/Non-invention); C04B24/00 C04B26/00 C04B28/00 C08F216/00 C08F220/00 C08F290/00 C08F299/00 C08G65/00 C08L71/00 (Core/Invention)

International (IPC 1-7): C04B16/00 C04B24/00 C04B24/02 C04B24/10 C04B24/12 C04B24/26 C04B26/06 C04B28/02 C04B7/00 C08F220/28 C08F290/04

CPC: C04B24/165 C04B24/2647 C04B24/2694 C04B2103/408 C08G65/2654 C08L71/02 C08L2205/05

European: C04B24/16P2A C04B24/26K10 C04B24/26V10 C04B24/32S C08G65/26P1J C08L71/02 M04B103/40P M08L205/05

US: 106/724 106/724S 106/727 106/728 106/728S 106/802 106/81 106/810 106/810S 106/823 106/823S 524/2 524/5 524/5S



Family:

Publication number	Publication date	Application number	Application date
AT449047 E	20091215	AT20030761854T	20030626
AU2003243041 AA	20040119	AU20030243041	20030626
AU2003243041 BB	20070510	AU20030243041	20030626
CA2488415 AA	20041202	CA20032488415	20030626
CA2488415 C	20100330	CA20032488415	20030626
CN100519465 C	20090729	CN20038000465	20030626
CN1522233 A	20040818	CN20038000465	20030626
DE60330145 D1	20091231	DE20036030145	20030626
EP1517868 A1	20050330	EP20030761854	20030626
EP1517868 B1	20091118	EP20030761854	20030626
ES2334563 T3	20100312	ES20030761854T	20030626
IN03635DN2004 A	20090403	IN2004DN03635	20041118
IN03835DN2004 A	20091030	IN2004DN03835	20041118
JP2005089193 A2	20050407	JP20030186442	20030630
JP2009057275 A2	20090319	JP20080244587	20080924
JP4829281 B2	20111207	JP20080244587	20080924
KR100484725 B1	20050420	KR20020037083	20020628
KR20040001763 A	20040107	KR20020037083	20020628
RU2004135061 A	20050910	RU20040135061	20030626
RU2291128 C2	20070110	RU20040135061	20030626
US2004118324 AA	20040624	US20030732496	20031210
US6939402 BB	20050906	US20030732496	20031210
WO04002917 A1	20040108	WO2003KR01257	20030626

Priority:

KR20020037083 20020628 WO2003KR01257 20030626 JP20030186442 20030630

Probable Assignee: LG CHEM LTD

Assignee(s): (std): KANG DONG KYU ; KIM DAE JOONG ; LEE CHAN YOUNG ; LEE CHANG YEOP ; LG CHEMICAL LTD ; NO DONG DUCK ; PARK KWANG MYUNG ; SONG JONG KEUN ; SONG HEE BONG ; CHOI BYEONG GIL

Assignee(s): EHL DZHI KEM LTD ; LG CHEM LTD

Inventor(s): (std): CHOI BYEONG GIL ; KANG DONG GYU ; KANG DONG KYU ; KIM DAE JOONG ; KIM DAE JUNG ; LEE CHAN YEONG ; LEE CHAN YOUNG ; LEE CHANG YEOP ; LEE CHANG YEOP ; NO DONG DUCK ; NOH DONG DEOK ; PARK GWANG MYEONG ; SONG HEE BONG ; SONG HUI BONG ; SONG JONG GEUN ; SONG JONG KEUN ; SONG KHI BONG ; SONG DZHONG K JUN ; SON JI SAKU ; PARK KUANG M JUNG ; NOU DONG DAK ; LI CHANG JIOB ; LI CHAN JANG ; KIM DEHJ DZHUNG ; PARK KWANG MYUNG ; SON JI SUK ; KANG DONG G JU ; DONG DUC KANG DONG KYU KIM DAE ; CHOJ BIJONG DZHIL

Inventor(s): CHOI ; KANG ; SONG DZHONG-K'JUN ; KANG DONG KYU KIM DAE JOONG SONG HEE BONG CHOI BYE ; SONG KHI-BONG ; PARK KUANG-M'JUNG ; NOU DONG-DAK ; LI CHANG-JIOB ; LI CHAN-JANG ; KIM DEHJ-DZHUNG ; KWANG MYUNG PARK ; KANG DONG KYU KIM DAE JOONG SONG HEE BONG CHOI ; KANG DONG KYU KIM DAE JOONG SONG HEE BONG CHOI BYEONG GIL LEE CHAN YOUNG LEE CHANG YEOP NO DONG DUCK SONG JONG KEUN ; KANG DONG-G'JU ; KANG DONG GYU 201 801 SEONGSAN 2ND DAELIM APT ; BYEONG GIL CHOI ; CHAN YOUNG LEE ; CHANG YEOP LEE ; CHOI BYEONG GIL 723 1202 MOKDONGSINSIGAJI APT ; CHOJ BIJONG-DZHIL ; DAE JOONG KIM ; DONG DUCK NO ; DONG GYU KANG ; HEE BONG SONG ; JI SUK SON ; JONG KEUN SONG

Agent(s): PHILLIPS ORMONDE FITZPATRICK ; RICHES MCKENZIE AND HERBERT LLP ; HARRISON GODDARD FOOTE ; KAJISAKI KOUICHI ; TANIGUCHI TOSHIHIKO ; UNIU PATENT ATTORNEYS OFFICE ; ALSTON AND BIRD LLP

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 KE KG KP KZ LC LI LK LR LZ LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI 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 US UZ VC VN YU ZA ZM ZW

Title: **CEMENT** RETARDER AND **CEMENT** RETARDATIVE SHEET

Abstract: Source: US5932344A [EN] PCT No. PCT/JP96/00252 Sec. 371 Date Oct. 7, 1996 Sec. 102(e) Date Oct. 7, 1996 PCT Filed Feb. 7, 1996 PCT Pub. No. WO96/24563 PCT Pub. Date Aug. 15, 1996A **cement** retarder which comprises a saturated or unsaturated polyester obtained by a reaction of a polycarboxylic acid component comprising a polycarboxylic acid having 2 to 6 carbon atoms in the main chain or its derivative, and a polyol component containing a polyhydric alcohol having 2 to 4 carbon atoms or its condensate, wherein: (a) the saturated polyester has a weight average molecular weight of about 300 to about 50,000; or (b) the unsaturated polyester has a weight average molecular weight of about 500 to about 25,000; or (c) the polyhydric alcohol used to obtain the saturated or unsaturated polyester is a condensate of a C2-4 alkylene glycol; or (d) the saturated polyester is a polyester obtained by the use of a condensate of a C2-4 alkylene glycol and has a weight average molecular weight of about 300 to about 50,000; or (e) the unsaturated polyester is a polyester obtained by the use of a condensate of a C2-4 alkylene glycol and has a weight average molecular weight of about 500 to about 25,000.

Classifications:

International (IPC 8-9): B05D1/28 B05D7/04 B05D7/24 B28B1/14 B28B11/08 B28B7/36 B44C1/10 B44C1/22 B44C5/04 C04B24/00 C04B24/04 C04B24/26 C04B24/28 C04B41/53 C04B41/63 C04B41/72 C08G63/16 C08J5/18 C09J167/00 C09J201/00 C09J7/02 E04F13/02 E04F13/08 (Advanced/Invention); B28B1/14 B28B11/08 B28B7/36 C04B103/24 C08J5/18 (Advanced/Non-invention); B05D1/28 B05D7/04 B05D7/24 B28B1/14 B28B11/08 B28B7/36 B44C1/00 B44C1/22 B44C5/00 C04B24/00 C04B41/53 C04B41/60 C08G63/00 C08J5/18 C09J167/00 C09J201/00 C09J7/02 E04F13/02 E04F13/08 (Core/Invention); B28B1/14 B28B11/08 B28B7/36 C08J5/18 (Core/Non-invention)

International (IPC 1-7): B05D1/28 B05D7/04 B05D7/24 B28B1/14

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CPC: Y10T428/28 Y10T428/2852 C04B41/009 B44C1/105 B44C1/22 B44C5/0438 C04B24/26 C04B24/283 C04B41/5323 C04B2103/20 C04B2103/22 Y10T428/31786 Y10T428/31794

European: B44C1/10B B44C1/22 B44C5/04J C04B24/26 C04B24/28K C04B41/00V C04B41/53D M04B103/20 M04B103/22

US: 264/299 264/337 264/338 428/343 428/355R 428/480 428/482 428/703 523/500 523/515 525/437 525/444 525/445 525/447 525/448 525/452 525/5 528/302 528/303 528/304 528/306 528/308 528/308.6 528/308.7

PatBase - JP9183643-A2 表1

	シュウ酸	コハク酸	マレイン酸	フマル酸	アジピン酸	フタル酸
EG	良	良	優	良	可	不可
PG	可	可	優	可	可	不可
BD	可	可	良	可	不可	不可
グリセリン	可	可	良	可	可	不可
PD	不可	不可	可	不可	不可	不可

表中、多価アルコールの記号は下記の化合物を意味する。

EG : エチレングリコール, PG : プロピレングリコール

BD : 1, 4-ブタンジオール, PD : 1, 5-ペンタンジオール

Family:

Publication number	Publication date	Application number	Application date
DE69633368 D1	20041021	DE19966033368	19960207
DE69633368 T2	20050217	DE19966033368T	19960207
EP0754656 A1	19970122	EP19960901948	19960207
EP0754656 A4	19970528	EP19960901948	19960207
EP0754656 B1	20040915	EP19960901948	19960207
JP10147768 A2	19980602	JP19970276782	19971009
JP2716689 B2	19980218	JP19960046802	19960207
JP2845795 B2	19990113	JP19960046801	19960207
JP8309717 A2	19961126	JP19960046801	19960207
JP9183643 A2	19970715	JP19960046802	19960207
US5932344 A	19990803	US19960718384	19961007
US6114033 A	20000905	US19980219347	19981223
WO9624563 A1	19960815	WO1996JP00252	19960207

Priority:

JP19950042373 19950207 JP19950062056 19950223 JP19950305132 19951030
 JP19960046801 19960207 JP19960046802 19960207 WO1996JP00252 19960207
 JP19970276782 19971009

Probable Assignee: DAICEL GROUP

Assignee(s): (std): DAICEL CHEM ; DAICEL CORP ; DAICEL DEGUSSA LTD ; DAICEL GROUP ; DAICEL HUELS LTD ; IKEMOTO YOSHIYUKI ; IKUTA TORU ; ZOKEI KK ; NIPPON CONCRETE IND CO LTD

Assignee(s): DAISEL CHEMICAL INDUSTRIES LTD ; DAICEL DEGUSSA LTD TOKIO TOKYO ; DAICEL CHEM IND LTD

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Agent(s): KUWATA MITSUO

Designated states: DE FR GB US

Title: STABLE LIQUID ENZYME COMPOSITIONS WITH ENHANCED ACTIVITY

Abstract: Source: US2003087787A [EN] The present invention relates to a liquid enzyme cleaning composition in which the enzyme is stable at alkaline pH and: at high concentration of boric acid salt; in the absence of sodium ion; and/or in the presence of water at concentrations of at least about 60 weight percent. The present enzyme cleaning composition typically yields superior soil (especially protein soil) removal properties. In an embodiment, the composition of the invention stabilizes the enzyme with potassium and/or alkanolamine borate.

Classifications:

International (IPC 8-9): A01N25/02 A01N25/30 A01N59/08 A01N63/00 A01P3/00 C11D1/14 C11D1/22 C11D1/24 C11D1/28 C11D1/66 C11D1/70 C11D1/72 C11D1/722 C11D1/75 C11D1/82 C11D1/90 C11D11/00 C11D3/00 C11D3/02 C11D3/04 C11D3/08 C11D3/16 C11D3/20 C11D3/30 C11D3/37 C11D3/38 C11D3/386 C11D3/48 C11D3/60 C11D7/08 C11D7/26 C11D7/42 C12S9/00 (Advanced/Invention); A01N25/02 A01N25/30 A01N59/08 A01N63/00 A01P3/00 C11D1/02 C11D1/66 C11D1/70 C11D1/72 C11D1/722 C11D1/75 C11D1/88 C11D11/00 C11D3/00 C11D3/02 C11D3/04 C11D3/08 C11D3/16 C11D3/20 C11D3/26 C11D3/37 C11D3/38 C11D3/48 C11D7/02 C11D7/22 C12S9/00 (Core/Invention); C11D (Subclass/Invention)

International (IPC 1-7): C11D0/00 C11D1/00 C11D3/00 C11D3/02 C11D3/06 C11D3/08 C11D3/16 C11D3/30 C11D3/38 C11D3/386 C11D7/42 C12S3/00

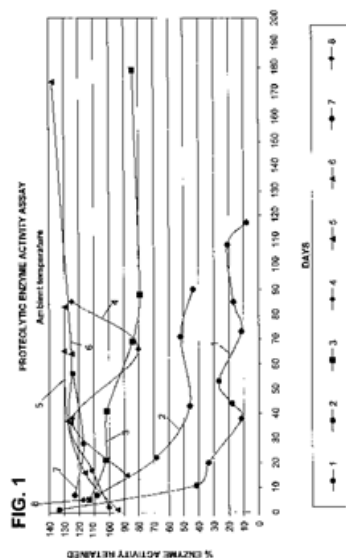
CPC: C11D3/38663 C11D3/386 C11D3/48 C11D17/041 C11D3/046 C11D3/162 C11D3/166 C11D3/30 C11D3/381 C11D11/0023

European: C11D11/00B2D C11D17/04B C11D3/04S C11D3/16B C11D3/16E C11D3/30 C11D3/386 C11D3/386J C11D3/38B C11D3/48

US: 134/39 134/40 134/42 510/214 510/238 510/238S 510/321 510/337 510/365 510/382 510/382S 510/384 510/392 510/392S 510/393 510/421 510/422 510/465 510/465S 510/466 510/499 510/499P 510/503 510/504 510/506 510/53 510/530 510/530S 510/531 510/532 510/535

PatBase - US2003087787_AA

Patent Application: Publication May 8, 2003 Sheet 1 of 5 US 2003/0087787 A1

**Family:**

Publication number	Publication date	Application number	Application date
AT380232 E	20071215	AT20040809978T	20041018
AU2001272995 AA	20020114	AU20010272995	20010625
AU200172995 A1	20020114	AU20010072995	20010625
AU200172995 A5	20020114	AU20010072995	20010625
AU2004284445 AA	20050506	AU20040284445	20041018
AU2004284445 BB	20100429	AU20040284445	20041018
BRPI0415602 A	20061205	BR2004PI15602	20041018
BRPI0415602 B1	20160301	BR2004PI15602	20041018
CA2411373 AA	20021205	CA20012411373	20010625
CA2411373 C	20080916	CA20012411373	20010625
CA2539558 AA	20060317	CA20042539558	20041018
CA2539558 C	20130108	CA20042539558	20041018
CN101381657 A	20090311	CN200810171362	20041018
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EP1675935 A2	20060705	EP20040809978	20041018
EP1675935 B1	20071205	EP20040809978	20041018
EP1675935 B2	20160928	EP20040809978	20041018
JP2007522264 T2	20070809	JP20060536695T	20041018
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JP5399613 B2	20140129	JP20060536695T	20041018
MXPA06004590 A1	20060705	MX2006PA04590	20041018
US2003087787 AA	20030508	US20020208404	20020729
US2005020466 AA	20050127	US20040820891	20040408
US2005164902 AA	20050728	US20040956135	20041001
US2006247150 AA	20061102	US20060381854	20060505
US2009325843 AA	20091231	US20090468967	20090817
US2010298190 AA	20101125	US20100852021	20100806
US2011207649 AA	20110825	US20110090903	20110420
US6624132 BA	20030923	US20000606478	20000629
US7553806 BB	20090630	US20020208404	20020729
US7569532 BB	20090804	US20040820891	20040408

US7795199 BB	20100914	US20060381854	20060505
US7951767 BB	20110531	US20100852021	20100806
US8211849 BB	20120703	US20110090903	20110420
WO0202727 A1	20020110	WO2001US20214	20010625
WO05040320 A2	20050506	WO2004US34406	20041018
WO05040320 A3	20050630	WO2004US34406	20041018
WO05040320 B1	20050901	WO2004US34406	20041018
WO05040320 C1	20060622	WO2004US34406	20041018

Priority:

US20000606478	20000629	WO2001US20214	20010625	US20020208404	20020729
US20030514408P	20031024	US20030514370P	20031024	US20040820891	20040408
US20040956135	20041001	US20040957481	20041001	JP20060536695	20041018
JP20060536695T	20041018	WO2004US34406	20041018	US20050678472P	20050505
US20060381854	20060505	US20090468967	20090817	US20100852021	20100806
US20110090903	20110420				

Probable Assignee: ECOLAB USA INC

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Inventor(s): (std): KILLEEN YVONNE MARIE ; LENTSCH STEVEN E ; LENTSCH STEVEN EUGENE ; MAN VICTOR F ; MAN VICTOR F MAGNUSON JOSHUA P ; MCBROOM AMY B ; MAN VICTOR FUK PONG ; PEITERSEN NATHAN D ; SCHACHT PAUL F ; STEEP JACLYN J ; TILLESKJØR JACLYN ; VICTOR MAN ; STEVEN LENTSCH ; STEEP JACLYN ; SANDERS LISA ; PEDERSEN DANIEL E ; MOLINARO KATHERINE J ; MAN VICTOR E ; MAN VICTOR ; MAGNUSON JOSHUA P ; MAGNUSON JOSHUA ; LISA SANDERS ; LENTSCH STEVEN ; JOSHUA MAGNUSON ; BESSE MICHAEL E ; RUHR RICK O ; SANDERS LISA M

Inventor(s): SCHACHT PAUL ; VICTOR F MAN ; VICTOR FUK PONG MAN ; YVONNE MARIE KILLEEN ; STEVEN E LENTSCH ; STEVEN EUGENE LENTSCH ; RUHR RICK ; MCBROOM AMY ; MOLINARO KATHERINE ; PEDERSEN DANIEL ; PEITERSEN NATHAN ; MAN VICTOR F MAGNUSON JOSHUA P SANDERS LISA M LENT ; BESSE MICHAEL ; JOSHUA P MAGNUSON ; LISA M SANDERS

Agent(s): SPRUSON AND FERGUSON; CASSAN MACLEAN; CASSAN MACLEAN IP AGENCY INC; GODEMEYER BLUM LENZE PATENTANWALTE PARTNERSCHAFT MBB WERKPATENT; AOKI ATSUSHI; ISHIDA TAKASHI; KOGA TETSUJI; ECOLAB INC; MERCHANT AND GOULD PC; ECOLAB USA INC; ANDREW D; ANNELIESE S; AMY J; LAURA C

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

Title: POLYCARBOXYLIC ACID CONCRETE ADMIXTURE

Abstract: Source: US2008027177A [EN] The polycarboxylic acid concrete admixture of the present invention exhibits properties such as decreasing the concrete viscosity, improving the slump-retaining ability, and suppressing bleeding water, and is improved in the ability to **cement** compositions or the like. The above-mentioned polycarboxylic acid concrete admixture comprises a polycarboxylic acid polymer containing a polyalkylene glycol in the side chain, wherein the polycarboxylic acid polymer is obtained by polymerizing monomer components containing an alkyl (meth)acrylate monomer and a specific polyalkylene glycol unsaturated monomer and **unsaturated carboxylic acid** (salt) monomer, and it has a specific weight average molecular weight.

Classifications:

International (IPC 8-9): C04B22/08 C04B24/26 C04B28/02 C04B40/00 C08F18/00 C08F20/10 C08F20/26 C08F220/18 C08F290/06 C08F30/04 (Advanced/Invention);

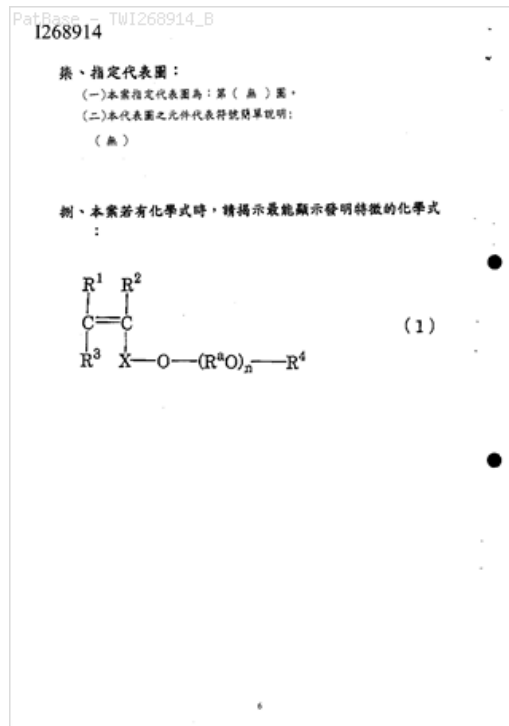
C04B103/30 C04B24/26 C04B28/02 C08F290/06 (Advanced/Non-invention); C04B24/00 C04B28/00 C04B40/00 C08F290/00 (Core/Invention)

International (IPC 1-7): C04B22/08 C04B24/26 C04B28/02 C08F290/06

CPC: C04B24/2647 C04B40/0039 C04B2103/302 C04B2103/304 C08F290/062

European: C04B24/26K10 C04B40/00D4 C08F290/06B M04B103/30B M04B103/30D

US: 524/5 525/170 525/170P 526/240 526/314 526/314S 526/318.41 526/318.42 526/320



Family:

Publication number	Publication date	Application number	Application date
■ CN100402457 C	20080716	CN200480011979	20040507
■ CN1784369 A	20060607	CN200480011979	20040507
■ EP1622844 A1	20060208	EP20040731724	20040507
■ EP1622844 A4	20100421	EP20040731724	20040507
■ JP2006525938 T2	20061116	JP20060507728T	20040507
■ JP4614944 B2	20110119	JP20060507728T	20040507
■ KR100855533 B1	20080901	KR20057021338	20040507
■ KR20060003085 A	20060109	KR20057021338	20040507
■ TW200503981 A	20050201	TW20040112711	20040506
■ TWI268914 B	20061221	TW20040112711	20040506
■ US2008027177 AA	20080131	US20040556086	20040507
■ US7638563 BB	20091229	US20040556086	20040507
■ WO04099099 A1	20041118	WO2004JP06475	20040507

Priority:

JP20030132287 20030509 WO2004JP06475 20040507 WO2004JP06475 20051109

Probable Assignee: NIPPON SHOKUBAI CO LTD

Assignee(s): (std): NISHIKAWA TOMOTAKA ; NISHIKAWA YUKIKO ; TANAKA HIROMICHI ; UETA TOMIYASU ; UNO TORU ; YAMAMOTO KOICHI ; NIPPON CATALYTIC CHEM IND

Assignee(s): NIPPON SHOKUBAI CO ; NIPPON SHOKUBAI CO LTD

Inventor(s): (std): TOMIYASU NISHIKAWA TOMOTAKA UN ; YUKIKO NISHIKAWA ; YAMAMOTO KOICHI ; YAMAMOTO HIROKAZU ; UNO TORU ; UETA TOMIYASU ; TORU UNO ; TOMOTAKA NISHIKAWA ; TOMIYASU UETA ; TANAKA HIROMICHI ; NISHIKAWA YUKIKO ; NISHIKAWA TOMOTAKA ; KOICHI YAMAMOTO ; HIROMICHI TANAKA

Inventor(s): NISHIKAWA TOMOTAKA UNO TORU YAMAMOTO KOICHI... ; NISHIKAWA TOMOTAKA UNO TORU YAMAMOTO KOICHI NISHIK ; TANAKA HIROMICHI AND

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

Title: LOW-TO-MID-RANGE WATER REDUCTION USING POLYCARBOXYLATE COMB POLYMERS

Abstract: Source: US2016090323A [EN] Methods for plasticizing cementitious mixtures having relatively high water/cement ratio (at least 0.40 or higher) are surprisingly improved in terms of dosage efficiency, compared to conventional "superplasticizer" polycarboxylate polymers, when the polycarboxylate polymer is formed from particularly small-sized, specifically selected monomer constituents: (A) **polyoxyalkylene** monomer represented by the structural formula (R1)(R3)C-C(R2)((CH2)m(CO)nO(CH2)o(AO)pR4) wherein (AO)p represents linear ethylene oxide groups and p is 5-23 and more preferably 5-15; (B) **unsaturated carboxylic acid** represented by (R5)(R7)C-C(R6)(C(O)OM) wherein M represents an alkali metal, the ratio of component A to component B being 20:80 to 50:50; and, optionally, (C) a **hydrophilic** monomer represented by (R8)(R9)C-C(R10)(CX) wherein R8, R9, and R10 each represent hydrogen or methyl group, and X represents C(O)NH2, C(O)NHR11, C(O)NR12R13, SO3H, C6H4SO3H, or C(O)NHC(CH3)2CH2SO3H, or mixture thereof, wherein R11, R12, and R13 each represent a C1 to C5 alkyl group.

Classifications:

International (IPC 8-9): C04B24/12 C04B24/16 C04B24/26 C04B24/28 C04B28/02 C08F220/04 C08F222/02 (Advanced/Invention); C04B103/00 C04B103/30 C04B111/00 (Advanced/Non-invention)

International (IPC 1-7): C04B24/26

CPC: C04B2103/304 C04B2111/00068 C04B24/122 C04B2103/50 C04B24/165 C04B24/2647 C04B24/2658 C04B28/02 C04B2103/006 C04B2103/302

US: 524/5

Family:

Publication number	Publication date	Application number	Application date
AU2015324162 AA	20160407	AU20150324162	20150928
BR112017006645 A2	20171219	BR20171106645	20150928
CA2962776 AA	20170327	CA20152962776	20150928
CN107148406 A	20170908	CN201580053065	20150928
CO20170004297 A2	20170728	CO20170004297	20170428
EP3201154 A1	20170809	EP20150846443	20150928
IN201717010447 A	20170908	IN201717010447	20170324
JP2017531608 T2	20171026	JP20170517266T	20150928
KR20170094120 A	20170817	KR20177008311	20150928
MX2017004028 A1	20170707	MX20170004028	20150928
SG11201702357W A1	20170427	SG20171102357	20150928
US2016090323 AA	20160331	US20150623871	20150217
US9919968 BB	20180320	US20150623871	20150217
WO16053854 A1	20160407	WO2015US52610	20150928

Priority:

US20140057558P 20140930 US20150623871 20150217 WO2015US52610 20150928

Probable Assignee: GCP APPLIED TECHNOLOGIES INC

Assignee(s): (std): GCP APPLIED TECH INC ; GCP APPLIED TECHNOLOGIES INC ; GRACE W R AND CO

Assignee(s): KUO LAWRENCE L ; JASKULA NATALIA ; DEUTSCHE BANK NEW YORK BRANCH COLLATERAL AGENT AG AS ; GOC MACIEJEWSKA IZABELA ; W R GRACE AND CO CONN

Inventor(s): (std): GOC MACIEJEWSKA IZABELA ; IZABELA GOC MACIEJEWSKA ; JASKULA NATALIA ; KUO LAWRENCE L ; LAWRENCE L KUO ; NATALIA JASKULA

Inventor(s): LAWRENCE KUO L

Agent(s): PHILLIPS ORMONDE FITZPATRICK; SMART AND BIGGAR; JOSE ANDRES RINCON USCATEGUI; J A KEMP; CRAAIG K; LEON CRAIG K

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: WATER-ABSORBING AGENT AND PRODUCTION METHOD THEREOF

Abstract: Source: US2008221229A [EN] To provide a water absorbing agent which is excellent in balance between absorbency and liquid permeability against pressure and is excellent in flowability at the time of moisture absorption. The water absorbing agent comprises water absorbent resin particles and an organic surface **additive**, wherein: the organic surface **additive** having (i) a reactive group for a functional group of a surface of each water absorbent resin particle and (ii) a hydrophobic group exists on the surface of the water absorbent resin particle, and the hydrophobic group has a hydrocarbon group whose carbon number is 8 or more, and a ratio of an oxyalkylene group in a molecular mass of the organic surface **additive** is 0 or more and 25 mass percent or less.

Classifications:

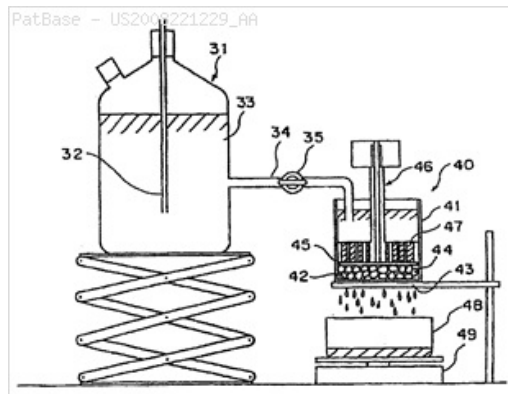
International (IPC 8-9): A61F13/15 A61F13/49 A61F13/53 A61L15/60 B01J20/26 B01J20/285 C08F120/00 C08F16/28 C08F20/02 C08F32/00 C08F8/30 C08J9/16 C08K5/053 C08K5/17 C08L101/10 C08L101/14 (Advanced/Invention);

A61F13/15 A61L15/16 B01J20/22 C08J9/00 C08L101/00 (Core/Invention)

CPC: B01J20/267 A61L15/60 A61F13/53 C08J3/245 C08J2300/14 C08L101/14 A61F2013/530481

European: A61F13/53 A61L15/60 C08J3/12B C08J3/24F C08L101/14 K61F13/53Q M08J300/14

US: 502/402 521/56 521/56P 521/60 525/328.2 525/329.7 525/330.3



Family:

Publication number	Publication date	Application number	Application date
■ CN101678315 A	20100324	CN200880014575	20080303
■ CN101678315 B	20141112	CN200880014575	20080303
■ EP2127741 A1	20091202	EP20080721210	20080303
■ EP2127741 A4	20121031	EP20080721210	20080303
■ JP2008108343 A1	20100617	JP20090502577T	20080303
■ JP2015091586 A2	20150514	JP20150005331	20150114
■ JP5959794 B1	20160802	JP20090502577T	20080303
■ JP6246746 B2	20171213	JP20150005331	20150114
■ US2008221229 AA	20080911	US20080041609	20080303
■ US8252715 BB	20120828	US20080041609	20080303
■ WO08108343 A1	20080912	WO2008JP53790	20080303

Priority:

JP20070054855 20070305 JP20070254149 20070928 JP20070256635 20070928
 JP20090502577 20080303 JP20090502577T 20080303 WO2008JP53790 20080303
 JP20150005331 20150114

Probable Assignee: NIPPON SHOKUBAI CO LTD

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Assignee(s): NIPPON SHOKUBAI CO ; NIPPON SHOKUBAI CO LTD

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Agent(s): HOFFMANN EITL; HARAKENZO WORLD PATENT AND TRADEMARK; MORRISON AND FOERSTER LLP

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

Title: SUPERFLUIDIFYING **ADDITIVE** FOR CEMENTITIOUS COMPOSITIONS

Abstract: The present invention regards a superfluidifying **additive** for cementitious compositions, comprising an acrylic superfluidifier, an ammonium salt, at least one surfactant, and possibly an antifoaming **additive**. The present invention moreover comprises high-fluidity and high-workability cementitious compositions premixed in the dry state and cementitious items containing the said superfluidifying agent.

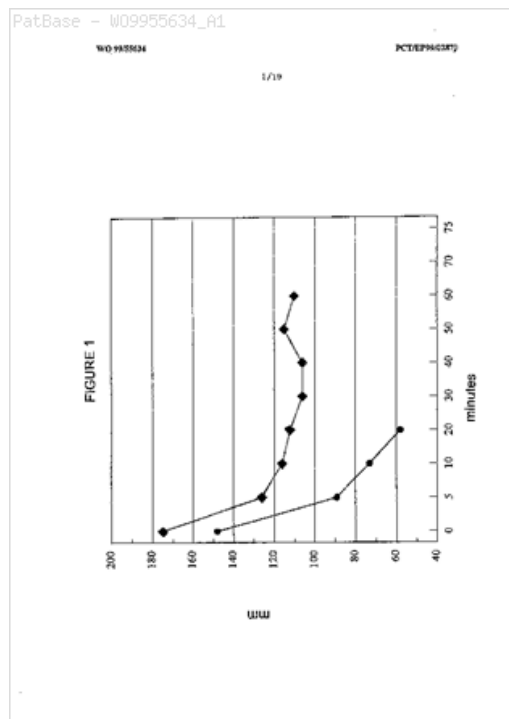
Classifications:

International (IPC 8-9): C04B24/12 C04B40/00 (Advanced/Invention);
C04B24/00 C04B40/00 (Core/Invention);
C04B (Subclass/Invention)

International (IPC 1-7): C04B11/80 C04B14/30 C04B24/12 C04B24/26
C04B28/02 C04B28/2 C07D317/32 C07D317/42 C08F24/00 C08F34/02

CPC: C04B24/12 C04B40/0039

European: C04B24/12 C04B40/00D4



Family:

Publication number	Publication date	Application number	Application date
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EP1082276 B1	20020724	EP19990920808	19990428
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ITMI980921 A1	19991029	IT1998MI00921	19980429
ITMI990727 A1	20001009	IT1999MI00727	19990409
WO9955634 A1	19991104	WO1999EP02870	19990428
WO9955634 C1	20010308	WO1999EP02870	19990428

Priority:

IT1998MI00291 19980429 IT1998MI00921 19980429 IT1999MI00727 19990409
WO1999EP02870 19990428

Probable Assignee: ITALCEMENTI SPA

Assignee(s): (std): GOISIS MARCO ; ITALCEMENTI S P A ; ITALCEMENTI SPA ; MARCO TIZIANA DE ; PEPE CARMINE ; CASSAR LUIGI

Assignee(s): DE MARCO TIZIANA

Inventor(s): (std): CASSAR LUIGI ; DE MARCO TIZIANA ; GOISIS MARCO ; MARCO TIZIANA DE ; PEPE CARMINE

Inventor(s): TIZIANA DE MARCO ; CARMINE PEPE ; LUIGI CASSAR ; MARCO GOISIS

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

Title: MULTI-COMPONENT COATINGS THAT INCLUDE POLYUREA COATING LAYERS

Abstract: Source: US2006046068A [EN] A polyurea composition, a multi-component composite coating and articles formed therefrom, and methods of forming the same are disclosed. The coating composition is formed from a reaction mixture comprising an isocyanate-functional component and an amine-functional component. The ratio of equivalents of isocyanate groups to equivalents of amine groups is greater than 1 while the volume mixing ratio of the isocyanate-functional component to the amine-functional component is capable of being applied to a substrate at 1:1.

Classifications:

International (IPC 8-9): B05D1/00 B05D1/02 B05D1/12 B05D1/36 B05D3/02 B05D7/00 B05D7/14 B05D7/24 B05D7/26 B32B15/095 B32B27/00 B32B27/08 B32B27/28 B32B27/30 B32B27/40 B32B27/42 B32B3/10 B32B5/00 B60R13/02 B60R13/08 B62D33/06 C03C17/32 C08G18/00 C08G18/10 C08G18/12 C08G18/30 C08G18/32 C08G18/38 C08G18/50 C08G18/60 C08G18/66 C08G18/67 C08G18/72 C08G18/79 C08G71/02 C08K3/10 C08K3/34 C08K3/38 C08K5/17 C08K5/3492 C08K5/52 C08K5/5313 C08L75/02 C09D175/00 C09D175/02 C09D175/04 C09D5/00 C09D5/18 C09D5/44 C09D7/02 C09D7/12 E04B1/74 G03G7/00 G10K11/16 (Advanced/Invention); C08G18/60 C09D175/02 (Advanced/Non-invention); B05D1/00 B05D1/02 B05D1/12 B05D1/36 B05D3/02 B05D7/00 B05D7/14 B05D7/24 B32B15/08 B32B27/00 B32B27/08 B32B27/28 B32B27/30 B32B27/40 B32B27/42 B32B3/10 B32B5/00 B60R13/02 B60R13/08 B62D33/06 C03C17/28 C08G18/00 C08G18/10 C08G18/38 C08K3/00 C08K5/00 C09D175/00 C09D175/02 C09D5/00 C09D5/44 C09D7/12 E04B1/74 G03G7/00 G10K11/00 (Core/Invention); C08G (Subclass/Invention)

International (IPC 1-7): B05D 7/00 C08G 18/10 C08G 18/38 C08G18/10 C08G18/12 C08G18/32 C08G18/38 C08G18/72 C08G18/79 C09D C09D 175/02 C09D175/02

CPC: B62D29/043 C09D5/4411 C08G18/3878 C08G18/5075 C08G18/721 Y10T428/266 Y10T428/24802 C09D5/00 C08G2350/00 Y10T428/24355 C08K5/0066 C08K5/51 C08G18/3206 C08G18/73 C08G18/755 C08L75/02 C08L75/04 C08L2205/02 Y10T428/31551 Y10T428/31605 Y10T428/31554 Y10T428/31562 Y10T428/31565 Y10T428/31573 C08G18/289 C08G18/3234 C08G18/6685 C08G18/672 C08G18/758 C08G18/8175 C08G2150/90 B60R13/02 B60R13/08 C08G18/6674 C08G18/722 C08G18/798 C08G18/0885 C08G18/12 C08G18/3821 C08G18/4854 C08G18/5024 C08G18/725 C08J7/047 C08J2475/00 C08G18/3262 C09D175/04 C09D175/02 C08G18/10 C09D163/00 C08K3/016

European: B62D29/04B C08G18/08F5 C08G18/10 C08G18/12 C08G18/28D8N C08G18/32A2 C08G18/32B4 C08G18/32B8K3 C08G18/38F3 C08G18/38K C08G18/48H C08G18/50F2 C08G18/50K C08G18/66P2A C08G18/66P2B2 C08G18/67B4 C08G18/72A C08G18/72A4 C08G18/72A8 C08G18/73 C08G18/75B6C3 C08G18/75D C08G18/81K3B4 C08J7/04L C09D175/02 C09D175/04 C09D5/00 C09D5/18 C09D5/44C2 L60R13/02 L60R13/08 M08G150/90 M08G350/00 M08J475/00 M08K3/00P8 M08K5/00P8 M08K5/51 M08L205/02 M08L75/02 M08L75/04

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PatBase - US2006046068_AA

Patent Application Publication Mar. 2, 2006

US 2006/086068 A1



FIG. 1



FIG. 2



FIG. 3

Family:

Publication number	Publication date	Application number	Application date
AR064409 AA	20090401	AR2007P105684	20071218
AR064410 AA	20090401	AR2007P105685	20071218
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AT469181 E	20100615	AT20070869026T	20071207
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Priority:

US20040606662	20040902	US20040606661P	20040902	US20040606670P	20040902
US20040606638P	20040902	US20040606639P	20040902	US20040606662P	20040902
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WO2007US86729	20071207	WO2005US30382	20080402	US20080122972	20080519
US20080122980	20080519	EP20090751228	20090515	WO2009US44077	20090515

Probable Assignee: PPG IND OHIO INC

Assignee(s): (std): BARANCYK STEVEN V ; BRATYS DAN M ; BRAYTS DAN M SR ; BRONDER RICHARD ; DIMARIO JOSEPH ; HOCKSWENDER THOMAS R ; MARTZ JONATHAN T ; MORALES JOSEPH ; FURAR JOHN ; GREIGGER PAUL P ; FURAR JOHN M ; SENKFOR HOWARD L ; TRINDADE JOSE C ; PPG IND OHIO INC ; PPG INDUSTRIES OHIO INC ; SENKFOR HOWARD ; PPG INDASTRIZ OGAGO INK ; PITTSBURGH GLASS WORKS LLC ; ZALICH MICHAEL A ; SINGER DEBRA L ; AMBROSE RONALD R

Assignee(s): BANK OF AMERICA NA AGENT AS ; PPG IND OHIO INC3800 WEST 143RD STREETCLEVELANDOH44111US ; NEWSTAR FINANCIAL INC ; PPG IND OHIO INC CLEVELAND ; PPG IND ; GENERAL ELECTRIC CAPITAL AGENT AS CORP ; DEUTSCHE BANK TRUST CO AMERICAS ; DEUTSCHE BANK TRUST CO NOTES COLLATERAL AGENT AS ; GTS SERVICES LLC ; LYNX SERVICES LLC

Inventor(s): (std): BARANCYK STEVEN V ; BRATYS DAN M ; BRATYS DAN M SR ; BRAYTS DAN M SR ; BRAYTS SR ; BRAYTS DAN M ; BRONDER RICHARD ; HOCKSWENDER THOMAS R ; DIMARIO JOSEPH ; GREIGGER PAUL P ; JONATHAN T MARTZ ; JOSE BARANCYK STEVEN V BRAYTS ; JOSE C TRINDADE ; JOSEPH DIMARIO ; JOSEPH MORALES ; MARTZ JONATHAN T ; MORALES JOSEPH ; SENKFOR HOWARD L ; SR DAN M BRAYTS ; TRINDADE JOSE C ; ZALICH MICHAEL A ; TRINDEJD KHOSE K ; SINGER DEBRA L ; SENKFOR KHOVAR D L ; SENKFOR KHOVAR D ; SENKFOR HOWARD K ; SENKFOR HOWARD ; SEHLICH MAJKL A ; MORALES DZHOZE F ; MARTS DZHONATAN T ; KHOKSVENDER TOMAS R ; JOHN FURAR ; HOWARD SENKFOR ; FURAR JOHN M ; FURAR JOHN ; F JURAR DZHON ; DIMARIO DZHOZE F ; BARANCHIK STIVEN V ; AMBROUZ RONAL D R ; AMBROSE RONALD R ; SENKOF HOWARD K ; FURAR DZHON M ; BREJTS STARSHIJ DEHN M

Inventor(s): BRAYTS DAN M ; F JURAR DZHON ; SENKFOR HOWARDUS ; MARTZ JONATHAN TUS ; HOCKSWENDER THOMAS RUS ; FURAR JOHNUS ; BARANCYK STEVEN VUS ; DAN M BRAYTS SR ; AMBROUZ RONALD R. ; STEVEN V BARANCYK ; THOMAS R HOCKSWENDER ; TRINDADE JOSE ; MICHAEL A ZALICH ; MARTZ JONATHAN ; HOCKSWENDER THOMAS ; HOWARD L SENKFOR ; JOHN M FURAR ; DEBRA L SINGER ; BRAYTS DAN MSR ; BRAYTS DAN ; BRATYS DAN ; AMBROSE RONALD ; BARANCYK STEVEN

Agent(s): MALLESONS STEPHEN JAUQUES ; MINTER ELLISON ; KING AND WOOD MALLESONS ; BORDEN LADNER GERVAIS LLP ; FLEISCHER ENGELS AND PARTNER MBB PATENTANWALTE ; F AND E PATENT ; POLYPATENT ; VALLEJO JUAN PEDRO ; PPG IND INC INTELLECTUAL PROPERTY DEPARTMENT ; PPG INDUSTRIES INC, INTELLECTUAL PROPERTY DEPT ; PPG IND INC INTELLECTUAL PROPERTY DEPT ; PPG INDUSTRIES INC, INTELLECTUAL PROPERTY DEPT ; ROBERT A ; DEBORAH M ; COHEN AND GRIGSBY PC ; KRISANNE ; DIANE R ; SIMINERIO ANDREW C ; MEYERS DIANE R ET AL ; MARMO CAROL A ET AL ; MEYERS DIANE R

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

Title: DETERGENT BUILDER AND DETERGENT COMPOSITION

Abstract: Source: US2005101513A [EN] It is an object of the present invention to provide a detergent builder comprising a copolymer excellent in compatibility with a liquid detergent and capable of exhibiting excellent basic abilities such as prevention of recontamination and detergency ratio, and a detergent composition containing the detergent builder. The above-mentioned detergent builder comprises a copolymer obtained by copolymerization of monomer components containing a polyalkyleneimine unsaturated monomer and other monomers.

Classifications:

International (IPC 8-9): C08F290/06 C08G65/26 C11D1/00 C11D3/00 C11D3/37 (Advanced/Invention); C08F290/00 C11D1/00 C11D3/00 C11D3/37 (Core/Invention)

International (IPC 1-7): C08F290/06 C08G65/26 C11D1/00 C11D3/37

CPC: C08F290/06 C08F290/065 C11D3/0036 C11D3/3723 C11D3/3769 C11D3/3776

European: C08F290/06 C08F290/06D C11D3/00B7 C11D3/37B9 C11D3/37C8 C11D3/37C8H

US: 510/276 510/360 510/475 510/480 510/499 510/531 510/533 524/4 526/217 526/307

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 EP1524314 B1	20070314	EP20040292429	20041013
 EP1524314 B2	20110831	EP20040292429	20041013
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 US7393821 BB	20080701	US20040962545	20041013

Priority:

JP20030353944 20031014 JP20040250158 20040830 EP20040292429 20041013

Probable Assignee: NIPPON SHOKUBAI CO LTD

Assignee(s): (std): NIPPON CATALYTIC CHEM IND ; NIPPON SHOKUBAI CO LTD

Assignee(s): NIPPON SHOKUBAI CO

Inventor(s): (std): ATSURO YONEDA ; FUJII GIICHI ; SHIGERU ; SHIGERU YAMAGUCHI ; YONEDA JUNRO ; YOSHIKAZU FUJII ; YONEDA ATSURO ; YAMAGUCHI SHIGERU ; FUJII YOSHIKAZU

Agent(s): HART DAVIS JASON; CONNOLLY BOVE LODGE AND HUTZ LLP

Designated states: DE FR

Title: **PROCESS** FOR CLEANING A SURFACE USING AN AQUEOUS COMPOSITION CONTAINING A DISPERSED POLYMER

Abstract: Source: US2003109413A [EN] **Process** for enhancing the cleaning properties of an aqueous cleaning composition comprising at least one surfactant, intended for cleaning a surface which has been soiled with soiling, by adding to said cleaning composition, at least one polymer (P) comprising: hydrophobic monomer units that are uncharged or nonionizable at the working pH of the composition of the invention and optionally at least one **hydrophilic** monomer unit. Preferably, the polymer employed is a copolymer containing sulfur-containing functions in the ionic form (preferably containing sulfonated or sulfated functions).

Classifications:

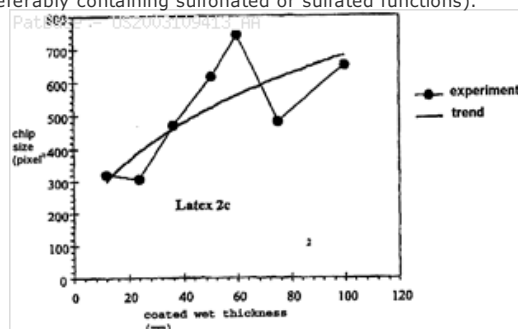
International (IPC 8-9): C11D1/00 C11D17/00 C11D3/00
C11D3/37 (Advanced/Invention)

International (IPC 1-7): B08B7/00 C11D1/00 C11D17/00 C11D3/37

CPC: C11D3/0031 C11D3/0036 C11D3/3749 C11D3/3765 C11D3/378
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European: C11D17/00B2 C11D3/00B6 C11D3/00B7 C11D3/37C2
C11D3/37C6F C11D3/37C9 C11D3/37Z

US: 134/4 134/4S 510/360 510/361 510/438 510/445 510/475 510/476
510/476S 510/477 510/499 510/499S



Family:

Publication number	Publication date	Application number	Application date
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EP1404792 A1	20040407	EP20020764969	20020710
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US2003109413 AA	20030612	US20020192633	20020711
US7094747 BB	20060822	US20020192633	20020711
WO03006595 A1	20030123	WO2002FR02423	20020710

Priority:

US20010304100P 20010711 WO2002FR02423 20020710 US20020192633 20020711

Probable Assignee: PROCTER AND GAMBLE COMPAY

Assignee(s): (std): AUBAY ERIC ; GEFFROY CEDRIC ; LABEAU MARIE PIERRE ; PROCTER AND GAMBLE ; RHODIA CHIMIE SA ; RHONE POULENC CHIMIE

Assignee(s): THE PROCTER AND GAMBLE COMPANY ; PROCTER AND GAMBLE COMPAY ; RHODIA CHIMIE

Inventor(s): (std): AUBAY ERIC ; GEFFROY CEDRIC ; LABEAU MARIE PIERRE

Inventor(s): GEFFROY CEDRIC RESIDENCE PORTE DE PARIS

Agent(s): HOWARD PHILLIP JAN; BUCHANAN INGERSOLL AND ROONEY PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM
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SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Title: METHOD OF INHIBITING SCALE FORMATION USING WATER-SOLUBLE POLYMERS HAVING PENDANT DERIVATIZED AMIDE FUNCTIONALITIES

Abstract: Source: US2002065358A [EN] This invention is directed to a method of inhibiting scale formation in industrial water comprising adding to the industrial water an effective amount of a water-soluble polymer having pendant amide functionalities.

Classifications:

International (IPC 8-9): C02F5/00 C02F5/08 C02F5/10 C02F5/12

C04B35/632 C04B35/634 C08F20/58 C08F220/26 C08F220/54

C08F220/58 C08F222/38 (Advanced/Invention);

C02F5/00 (Advanced/Non-invention);

C02F5/10 C04B35/63 C08F20/00 (Core/Invention)

International (IPC 1-7): C02F5/00 C02F5/08 C02F5/10 C02F5/12

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C08F20/58

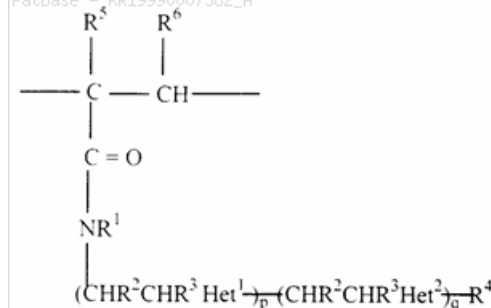
European: C02F5/12 C02F5/12B C04B35/634 C04B35/634B20

C08F20/58 M04B103/00P8

US: 524/406 524/413 524/428 524/430 524/555 526/271 526/303.1

526/304 526/307 526/320

PatBase - KR19990007382_A



Family:

Publication number	Publication date	Application number	Application date
AR013141 AA	20001213	AR1998P103101	19980626
AT236106 E	20030415	AT19980903600T	19980128
AU199860331 A1	19980825	AU19980060331	19980128
AU199865998 A1	19990107	AU19980065998	19980515
BRPI9802297 A	19991005	BR1998PI02297	19980626
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CA2279321 AA	19990730	CA19982279321	19980128
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EP1207143 A3	20021030	EP20010117947	19980128
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KR19990007382 A	19990125	KR19980024368	19980626
PL335063 A1	20000327	PL19980335063	19980128
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SG75853 A1	20001024	SG19980001516	19980624
SK96399 A3	20000612	SK19990000963	19980128
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US5726267 A	19980310	US19970792610	19970131
US5880237 A	19990309	US19970982590	19971204
US6005040 A	19991221	US19980186588	19981105
US6017994 A	20000125	US19970884154	19970627
WO9833750 A2	19980806	WO1998US01073	19980128
WO9833750 A3	19981029	WO1998US01073	19980128

Priority:

US19970792610 19970131	US19970884154 19970627	US19970982590 19971204
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Probable Assignee: NALCO CHEMICAL CO

Assignee(s): (std): NALCO CHEMICAL COMPANY COMPANH ; NALCO CHEMICAL CO

Assignee(s): NALCO CHEMICAL CO NAPERVILLE ; NALCO CHEMICAL COMPANY ; NALCO CO ; ONDEO NALCO CO ; WANG JIN SHAN ; YOUNG PAUL R ; REED PETER E ; TANG JIANSHENG ; NALCO CHEMICAL COMPANY COMPANHIA AMERICANA ; NALCO CO LLC ; CARTER PHILLIP W ; CITICORP NORTH AMERICA INC ; CITICORP NORTH AMERICA INC ADMINISTRATIVE AGENT AS ; ECOLAB USA INC ; HOWLAND CHRISTOPHER P ; MOEGGENBORG KEVIN J ; MORRIS JOHN D ; NALCO CHEM CO

Inventor(s): (std): HOWLAND CHRISTOPHER P ; HOWLAND CHRISTOPHER P ; HOWLAND P ; MOEGGENBORG DEVIN J ; MOEGGENBORG J ; MOEGGENBORG KEVIN J ; MORRIS D ; MORRIS JOHN D ; MORRIS JOHN D ; REED E ; REED PETER E ; TANG JIAN SHENG ; TANG JIANSHENG ; WANG JIN SHAN ; CARTER PHILIP W ; CARTER PHILLIP W ; WANG JINSHAN ; YOUNG PAUL R

Inventor(s): CHRISTOPHER P HOWLAND ; WANG JIN SHAN AND ; PAUL R YOUNG ; PETER E REED ; PHILIP W CARTER ; PHILLIP W CARTER ; JIANSHENG TANG ; JIN SHAN WANG ; JINSHAN WANG ; JOHN D MORRIS ; JOHN D MORRIS ; KEVIN J MOEGGENBORG

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; SMART AND BIGGAR; MARKS AND CLERK; NISHIYAMA MASAYA; HIGUCHI SOTOJI; ISHIDA TAKASHI

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HU ID IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW

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Title: FRICTION REDUCING COATING FOR ENGINEERING WORKS, AND, SHEET PILE, STEEL TUBULAR PIPE AND CONSTRUCTION METHOD

Abstract: Source: US2002042347A [EN] The present invention has its object to provide a friction reducing coating for engineering works, and, a soil adhesion-preventing sheet pile or steel tubular pipe wherein the above-mentioned friction reducing coating for engineering works applied thereto in advance, and, a soil adhesion-preventing construction method which comprises using the above-mentioned friction reducing coating for engineering works and/or the above-mentioned soil adhesion-preventing sheet pile or steel tubular pipe and further provide a negative friction cut construction method for foundation structures which comprises using the above friction reducing coating for engineering works and thus can cut the friction between a foundation structure after laying underground and the surrounding ground and reduce the influences of changes in the surrounding ground on the foundation structure as well as a caisson or pipe jacking construction method which comprises using the above friction reducing coating for engineering works and can reduce the friction between the substrate and soil while minimizing the influences on the surrounding ground and thus can markedly improve the speed and efficiency of construction work. A friction reducing coating for engineering works comprising a water-absorbing resin (a), a **hydrophilic** binder resin (b) and a solvent (c) as essential components, wherein said **hydrophilic** binder resin (b) has an acid value of 40 mg KOH/g to 500 mg KOH/g.

Classifications:

International (ipc 8-9): C08J5/16 C09D133/06 C09D201/00 C09D201/02 C09D5/00 C09D7/12 C10M107/28 C10M107/34 C10M107/36 C10M107/38 C10M107/42 C10M107/46 C10M111/04 E02D27/18 E02D31/10 E02D5/04 E02D5/28 E02D5/60 E02D9/02 E21D9/06 (Advanced/Invention); C08L33/02 C10N20/00 C10N40/00 C10N50/02 (Advanced/Non-invention); C08J5/16 C09D133/06 C09D201/00 C09D201/02 C09D5/00 C09D7/12 C10M107/00 C10M111/00 E02D27/10 E02D31/00 E02D5/02 E02D5/22 E02D5/24 E21D9/06 (Core/Invention); C08L33/00 (Core/Non-invention)

International (ipc 1-7): C08J5/16 C09D133/08 C09D201/00 C09D5/00 C09D5/12 C09D7/14 C09K3/00 C10M107/28 C10M107/34 C10M107/36 C10M107/38 C10M107/42 C10M107/46 C10M111/04 C10M157/00 C10N20/00 C10N40/00 C10N50/02 E02D13/00 E02D27/18 E02D5/04 E02D5/28 E02D5/60 E02D7/00 E02D9/02 E21D9/06

CPC: C09D7/65 C09D7/69 E02D31/10 C08L33/02 C09D133/064 E02D5/04 E02D5/28

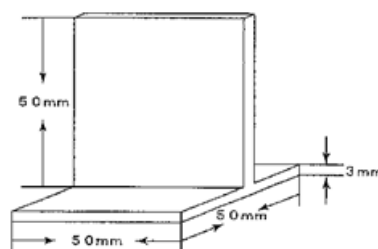
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US: 106/2 106/2S 508/100 508/100P

PatBase - US2002042347_AA

Prior Application Publication Apr. 11, 2002 Sheet 1 of 3 US 2002/0042347 A1

FIG. 1



Family:

Publication number	Publication date	Application number	Application date
DE10139475 A1	20020221	DE20011039475	20010810
JP2002060694 A2	20020226	JP20000244083	20000811
JP2002060695 A2	20020226	JP20000244134	20000811
JP3181573 B1	20010703	JP20000244083	20000811
JP3224533 B1	20011029	JP20000244134	20000811
US2002042347 AA	20020411	US20010925505	20010810
US6593280 BB	20030715	US20010925505	20010810

Priority:

JP20000244083 20000811 JP20000244134 20000811

Probable Assignee: NIPPON SHOKUBAI CO LTD

Assignee(s): (std): NIPPON CATALYTIC CHEM IND

Assignee(s): NIPPON SHOKUBAI CO ; NIPPON SHOKUBAI CO LTD ; NIPPON SHOKUBAI CO LTD OSAKA

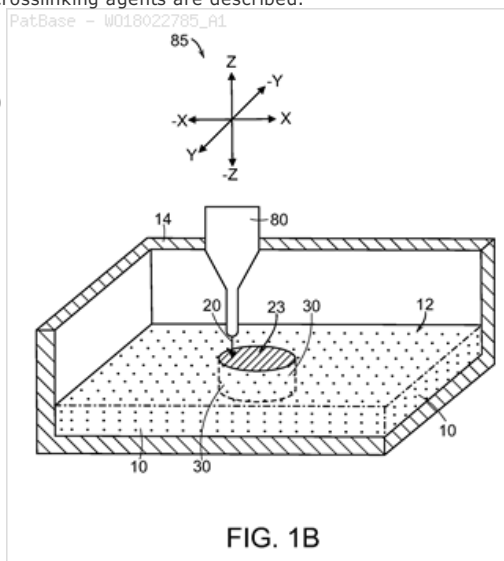
Inventor(s): (std): MURAKAMI YOHEI ; MATSUNAGA TOSHIKI ; HATTORI AKIRA

Title: CURABLE COMPOSITIONS CONTAINING 1,1-DI-ACTIVATED VINYL COMPOUNDS AND RELATED COATINGS AND PROCESSES

Abstract: Curable compositions comprising 1,1-di-activated vinyl compounds are provided herein. Also provided are coatings formed from 1,1-di-activated vinyl compounds. Also provided are **processes** for coating substrates and articles. Curable compositions including 1,1-di-activated vinyl compounds that function as crosslinking agents are described.

Classifications:

International (IPC 8-9): B05D7/00 B29C64/165 B33Y10/00 B33Y70/00 B33Y80/00 C08K5/00 C08K9/04 C09C1/00 C09C3/08 C09C3/10 C09D133/06 C09D161/00 C09D163/00 C09D167/00 C09D171/02 C09D175/00 C09D175/02 C09D175/04 C09D179/02 C09D4/00 C09D5/00 C09D5/44 C09D7/12 (Advanced/Invention)
CPC: B05D7/50 B05D7/52 B05D7/53 C09D5/00 C09D133/066 C09D179/02 C09D7/63 C08K5/0025 C09D175/04 B05D7/56 B05D7/57 C09D161/00 C09D163/00 C09D5/44 C09D5/4484 C09D5/4488 C08K9/04 C08K3/22 C09C1/00 C09C3/08 C09D7/62 C08F222/14 C09D4/00 C09D4/06 B29C64/165 B33Y10/00 B33Y70/00 B33Y80/00 C09C1/3661 C09C1/3669 C09C1/3692 C09C3/063 C09C3/10 C08G18/4018 C08G18/4854 C08G18/6692 C08G18/755 C08G18/792 C08G18/797 C08G17/04 C09D133/00



Family:

Publication number	Publication date	Application number	Application date
WO18022780 A1	20180201	WO2017US43995	20170726
WO18022785 A1	20180201	WO2017US44001	20170726
WO18022788 A1	20180201	WO2017US44005	20170726
WO18022792 A1	20180201	WO2017US44010	20170726
WO18022794 A1	20180201	WO2017US44014	20170726
WO18022804 A1	20180201	WO2017US44032	20170726
WO18022810 A1	20180201	WO2017US44041	20170726

Priority:

US20160366781P 20160726	US20160372365P 20160809	US20160379770P 20160826
US20160403747P 20161004	US20160416758P 20161103	US20160416753P 20161103
US20160419536P 20161109	US20170454965P 20170206	US20170454943P 20170206

Probable Assignee: PPG IND OHIO INC

Assignee(s): (std): PPG IND OHIO INC

Inventor(s): (std): ANDERSON LAWRENCE G ; BOGGS CAROL L ; CONDIE ALLISON G ; CONNOR DANIEL ; EIBON WILLIAM E ; FENN DAVID R ; FURAR JOHN M ; GOTTUMUKKALA ADITYA ; HARRIS CAROLINE S ; KUTCHKO CYNTHIA ; LUCHANSKY MATTHEW S ; MORAVEK SCOTT J ; MOYANO DANIEL F ; NIEDERST CRAIG D ; OLSON KURT G ; POWELL ADAM B ; PUODZIUKYNAITE EGLE ; SADVARY RICHARD J ; SCHWARTZMILLER DAVINA J ; SERENE JAMES C ; SISCO SCOTT W ; STEELY LEE B ; STONE DAVID ; SWARUP SHANTI ; TYEBJEE SHIRYN ; WILSON CRAIG A ; ZALICH MICHAEL A

Agent(s): TREBILCOCK CHRISTINE W 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 DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: **ADDITIVE** FOR SUSPENSIONS

Abstract: Source: US2016236982A [EN] The present invention proposes a polycuboxylate ether-based **additive** having the general formula (I) for use as flow modifier in suspensions. The present invention further proposes a method for obtaining of such **additive**, wherein the method comprises the sequential steps of esterification of polyethylene glycol (PEG) with maleic anhydride (MA) and thus obtaining of a chemical product (PEGMA) and free radical polymerization in a mixture comprising acrylic acid (AA), 2-acrylamido-2 methylpropanesulfonic acid (AMPS) and PEGMA as reactants, further comprising water and an initiator, initial pH value of said mixture is within the range between 7.5 and 8.5, and any free oxygen is removed from the mixture throughout the free radical polymerization.

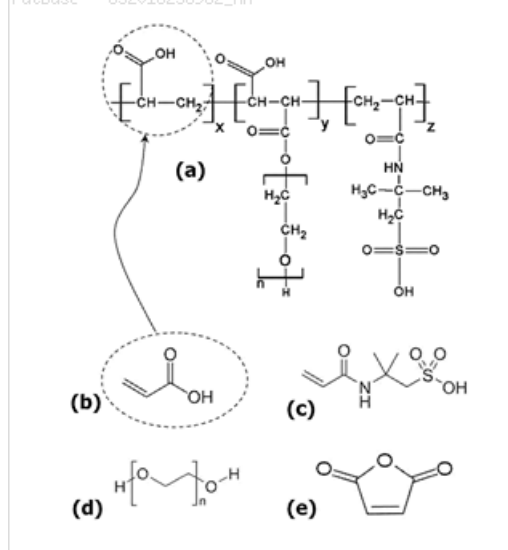
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International (IPC 8-9): C04B24/16 C04B24/24 C04B24/26 C07C67/08 C08F C08F220/06 C08F220/58 C08F222/16 C08F230/02 (Advanced/Invention)

CPC: C08F220/58 C08F222/585 C04B24/165 C08F222/16 C08F230/02 C04B24/2694 C08F220/06 C04B24/2647 C04B28/02 C04B2103/32

US: 526/75

PatBase - US2016236982_AA



Family:

Publication number	Publication date	Application number	Application date
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EP3056525 A1	20160817	EP20160155891	20160216
EP3056525 B1	20170517	EP20160155891	20160216
TR201517545 A2	20160822	TR20150017545	20151230
TR201619576 T3	20170123	TR20160019576T	20160216
US2016236982 AA	20160818	US20160044065	20160215

Priority:

EP20150155210 20150216 EP20160155891 20160216

Probable Assignee: SABANCI UENIVERSITESI

Assignee(s): (std): SABANCI UENIVERSITESI

Inventor(s): (std): AKBULUT OEZGE ; AKHLAGHI OMID ; MENCELOGLU YUSUF ; MENCELOGLU YUSUF Z

Inventor(s): OEZGE AKBULUT ; OMID AKHLAGHI ; YUSUF Z MENCELOGLU ; YUSUF ZIYA MENCELOGLU

Agent(s): MUELLER SCHUPFNER AND PARTNER PATENT U RECHTSANWALTSPARTNERSCHAFT MBB; SEVINC ERKAN; ERKAN SEVINC

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: Method of making coating layers containing photocatalyst and a photocatalyst coating film formed thereby

Abstract: Source: US6335061B [EN] A film which is improved in the resistance to fouling, the durability, and the transparency and has a photocatalytic function is provided by a method of making photocatalyst contained coating layers which comprises the steps of forming on the surface of an organic film an (under)coating of a coating composition composed mainly of at least one component (a) selected from organosilanes, hydrolyzates of the organosilanes, and condensates of the organosilanes and, when desired, a polymer component (b) having a silyl group containing silicon atoms bonded with a hydrolytic group and/or a hydroxy group, and forming on the (under)coating an (over)coating of a coating composition composed mainly of the component (a), a photocatalyst and, if desired, the component (b).

Classifications:

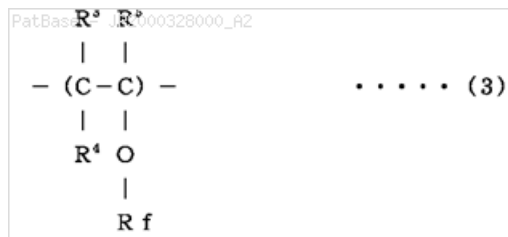
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International (IPC 1-7): B01J35/02 B05D1/36 B05D3/02 B05D3/06 B05D5/00 B05D7/00 B05D7/24 B32B17/06 B32B27/00 B32B9/04 C03C17/34 C08G77/24 C08J7/04 C08K3/00 C09D127/22 C09D183/04 C09D5/00

CPC: Y10T428/31612 Y10T428/31663 C08J7/047 C08J2483/00 C09D183/04

European: C08J7/04L C09D183/04 M08J483/00

US: 427/387 427/412.1 427/515 427/517 428/428 428/429 428/447 428/448



Family:

Publication number	Publication date	Application number	Application date
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JP2000202363 A2	20000725	JP19990011121	19990119
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US6335061 BA	20020101	US20000487307	20000119
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Priority:

JP19990011121 19990119 JP19990142409 19990521

Probable Assignee: JSR CORP

Assignee(s): (std): JSR CORP

Inventor(s): (std): KANAMORI TAROU ; SAKAGAMI TOSHINORI ; SHIMADA MIBUKO ; SHIMADA JIYUNSEISHI ; SAKAGAMI TOSHIKI ; KANAMORI TARO

Agent(s): SHIRAI SHIGETAKA

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

Title: COPOLYMERS USEFUL AS RHEOLOGY MODIFIERS AND HOME AND PERSONAL CARE COMPOSITIONS COMPRISING SAID COPOLYMERS

Abstract: Source: US2010056647A [EN] The present invention relates to aqueous personal care, household care, and/or fabric care compositions comprising the instant copolymers. Also disclosed are methods for the rheological modification of aqueous personal care, household care, and/or fabric care compositions comprising the instant copolymers.

Classifications:

International (IPC 8-9): A61K8/04 A61K8/06 A61K8/365 A61K8/81 A61K8/91 A61Q1/00 A61Q11/00 A61Q15/00 A61Q17/00 A61Q19/00 A61Q19/02 A61Q19/04 A61Q19/08 A61Q19/10 A61Q3/00 A61Q5/00 A61Q5/02 A61Q5/04 A61Q5/06 A61Q5/08 A61Q5/10 A61Q5/12 A61Q9/00 C08F2/24 C08F216/14 C08F220/18 C08F220/28 C08F220/32 C08F220/34 C08F220/56 C08F220/62 C08F220/68 C11D3/00 C11D3/37 (Advanced/Invention);

A61K8/81 A61Q5/06 C08F220/06 C08F220/18 C08F220/32 C08F220/34 C08F220/56 C08F222/10 (Advanced/Non-invention); A61K8/72 C08F220/00 C11D3/37 (Core/Invention)

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European: A61K8/91 A61Q19/10 A61Q5/00C A61Q5/02 A61Q5/12 C08F2/24 C08F220/34 C11D3/37C8F C11D3/37E K61Q5/00F K61Q5/06 M08F220/06 M08F220/18 M08F220/56 M08F222/10B

US: 1/1 424/70.16 510/475 510/475S 514/772.5 514/772.500P 514/772.6 514/772.600S

Family:

Publication number	Publication date	Application number	Application date
BRPI0917110 A2	20151103	BR2009PI17110	20090827
BRPI0917110 B1	20170117	BR2009PI17110	20090827
CN102202639 A	20110928	CN200980143307	20090827
CN102202639 B	20130814	CN200980143307	20090827
DE602009022251 D1	20140417	DE200960022251T	20090827
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IN01437CN2011 A	20120601	IN2011CN01437	20110301
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KR20110067114 A	20110621	KR20117007600	20090827
MX2011002127 A1	20110328	MX20110002127	20090827
US2010056647 AA	20100304	US20090548924	20090827
US2016338939 AA	20161124	US20160225185	20160801
US9439848 BB	20160913	US20090548924	20090827
US9724288 BB	20170808	US20160225185	20160801
WO10026097 A1	20100311	WO2009EP61040	20090827

Priority:

US20080190785P 20080902	US20080190786P 20080902	EP20090782254 20090827
WO2009EP61040 20090827	US20090548924 20090827	US20160225185 20160801

Probable Assignee: BASF SE

Assignee(s): (std): CIBA GEIGY CORP ; DUNGWORTH HOWARD R ; DUNGWORTH HOWARD ROGER ; PLONKA JOHN MARK ; NORMINGTON DAVID ; GRAHAM KEITH ; PLONKA JOHN M ; BASF AG ; BASF SE

Assignee(s): CIBA CORP

Inventor(s): (std): DAVID NORMINGTON ; DUNGWORTH HOWARD R ; DUNGWORTH HOWARD ROGER ; GRAHAM KEITH ; PLONKA JOHN MARK ; NORMINGTON DAVID ; PLONKA JOHN M ; KEITH GRAHAM ; MARK PLONKA JOHN ; ROGER DUNGWORTH HOWARD

Inventor(s): PLONKA JOHN ; HOWARD ROGER DUNGWORTH ; JOHN MARK PLONKA

Agent(s): FIESSER GEROLD MICHAEL; CARPINTERO MARIO; CIBA PATENT DEPARTMENT CORP; LOWENSTEIN SANDLER LLP; BASF SE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT 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: LOW-TO-MID RANGE WATER-REDUCING POLYMER WITH MIXED **POLYOXYALKYLENE** SIDE CHAINS

Abstract: Source: US2017320777A [EN] Methods for plasticizing cementitious mixtures having relatively high water/**cement** ratio (at least 0.40 or higher) are surprisingly improved in terms of dosage efficiency, compared to conventional "superplasticizer" polycarboxylate polymers, when the comb-type carboxylate copolymer is formed from two different polyether side chains, specifically selected monomer constituents: (A) first **polyoxyalkylene** monomer represented by structural formula $(R^1)(R^3)C-C(R^2)((CH_2)_m(CO)_nO(CH_2)_o(AO)_pR^4)$ wherein $(AO)_p$ represents linear alkylene oxide and p is an integer of 5-23; (B) second **polyoxyalkylene** monomer represented by structural formula $(R^1)(R^3)C-C(R^2)((CH_2)_m(CO)_nO(CH_2)_o(AO)_qR^4)$ wherein $(AO)_q$ represents linear alkylene oxide groups and q is an integer of 20 to 200; (C) **unsaturated carboxylic acid** monomer represented by $(R^5)(R^7)C-C(R^6)(C(O)OM)$ wherein M represents an alkali metal, and the ratio of component A to component B is 20:80 to 50:50; and, optionally, (D) a water-soluble monomer represented by $(R^8)(R^9)C-C(R^{10})(X)$ wherein R^8 , R^9 , and R^{10} each represent hydrogen or methyl group, and X represents $C(O)NH_2$, $C(O)NHR^{11}$, $C(O)NR^{12}R^{13}$, OR^{14} , SO_3H , $C_6H_4SO_3H$, or $C(O)NHC(CH_3)_2CH_2SO_3H$, or mixture thereof, wherein R^{11} , R^{12} , R^{13} , and R^{14} each represent a C_1 to C_5 alkyl group.

Classifications:

International (IPC 8-9): C04B24/26 C04B24/28 (Advanced/Invention)

CPC: C04B24/2694 C04B24/165 C04B24/2647 C04B24/2658 C04B28/02 C04B2103/302

Family:

Publication number	Publication date	Application number	Application date
US2017320777 AA	20171109	US20160144958	20160503
WO17192507 A1	20171109	WO2017US30532	20170502

Priority:

US20160144958 20160503

Probable Assignee: GCP APPLIED TECH INC

Assignee(s): (std): GCP APPLIED TECH INC

Assignee(s): GCP APPLIED TECHNOLOGIES INC

Inventor(s): (std): KUO LAWRENCE L

Agent(s): LEON CRAIG K

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

Title: Workability and board life in masonry mortar and method for obtaining same

Abstract: Source: US6451880B [EN] Improved workability and board life in masonry mortar is achieved through the use of an alkali soluble emulsion polymer and a low molecular weight, water-soluble humectant comprising a polymer having oxyalkylene groups, polyhydric groups, or a mixture thereof. The humectant in combination with a pH-sensitive polymer which provides significant advantages over the polymer alone. Preferably, the molecular weight of the humectant is approximately 2500 or lower. Exemplary masonry mortar compositions and methods for modifying them are also disclosed.

Classifications:

International (IPC 8-9): C04B24/02 C04B24/06 C04B24/26 C04B24/32 C04B24/38 C04B28/02 C04B40/00 C08K5/053 C08K5/06 C08K5/09 C08L33/04 C08L51/00 (Advanced/Invention)

International (IPC 1-7): C04B24/02 C04B24/06 C04B24/26 C04B24/32 C04B24/38 C04B28/02 C08K5/053 C08K5/09 C08K5/53 C08L33/04 C08L51/00

CPC: C04B24/2688 C04B24/32 C04B28/02 C04B40/0039 C04B2103/0045 C04B2103/0055 C04B2103/52 C04B2111/00646 C08K5/06

European: C04B24/26V C04B24/32 C04B28/02 C04B40/00D4 C08K5/06 M04B103/00P M04B103/00P10 M04B103/52 M04B111/00T8B M08K5/06

US: 524/320 524/366 524/5 524/560 524/561 526/320 526/328

Family:

Publication number	Publication date	Application number	Application date
AT506400 E	20110515	AT19990956667T	19991026
AU200013221 A1	20000613	AU20000013221	19991026
AU200013221 A5	20000613	AU20000013221	19991026
DE69943379 D1	20110601	DE19996043379	19991026
EP1194482 A1	20020410	EP19990956667	19991026
EP1194482 A4	20030917	EP19990956667	19991026
EP1194482 B1	20110420	EP19990956667	19991026
US6451880 BA	20020917	US20010856519	20010521
WO0031174 A1	20000602	WO1999US24996	19991026

Priority:

US19980109513P 19981123 WO1999US24996 19991026 US20010856519 20010521

Probable Assignee: W R GRACE AND CO CONN

Assignee(s): (std): GRACE W R AND CO ; JARDINE LESLIE A

Assignee(s): W R GRACE AND CO CONN ; W R GRACE AND CO CONN COLUMBIA ; WR GRACE AND CO ; WR GRACE AND CO CONN ; DEUTSCHE BANK NEW YORK BRANCH COLLATERAL AGENT AG AS ; GCP APPLIED TECHNOLOGIES INC ; GOLDMAN SACHS BANK USA COLLATERAL AGENT AS

Inventor(s): (std): JARDINE LESLIE A ; JARDINE LESLIE

Inventor(s): LESLIE A JARDINE

Agent(s): PRICE NIGEL JOHN KING

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

Title: GRANULES OBTAINED BY DRYING A MULTIPLE EMULSION

Abstract: Source: US2005277727A [EN] The invention concerns granules obtainable by drying an inverse emulsion, dispersed in an external aqueous phase: a) the inverse emulsion comprising an internal aqueous phase, including a **hydrophilic** active material, dispersed in an internal organic phase, said inverse emulsion including at least a non-ionic surfactant and/or at least an amphiphilic block polymer, and/or at least a cationic surfactant; b) the external aqueous phase including: at least a polyalkylated non-ionic surfactant and/or at least a polalkylated amphiphilic non-ionic polymer; at least a water soluble or water dispersible polymer in solid form in the presence of a water content of not more than 10 weight percent relative to the weight of said polymer and whereof the glass transition temperature is higher than 25 degrees centigrade, preferably higher than 50 degrees centigrade. The granules, once dispersed, enable to obtain a multiple emulsion.

Classifications:

International (IPC 8-9): A01N25/14 A61K8/00 A61K8/02 A61K8/04 A61K8/06 A61K8/11 A61K8/18 A61K8/20 A61K8/72 A61K8/81 A61K8/90 A61K9/16 A61Q19/00 B01J13/02 B01J2/30 C08F2/32 C08J3/02 C08J3/03 C08J3/12 C08J3/16 C09D5/02 (Advanced/Invention);

A01N25/14 A61K8/00 A61K8/04 A61K8/18 A61K8/19 A61K8/72 A61K9/16 A61Q19/00 B01J2/30 C08J3/02 C08J3/12 C09D5/02 (Core/Invention)

International (IPC 1-7): A01N25/14 A61K7/00 A61K9/16 B01J2/02 B01J2/30 C08F2/00 C08J3/02 C08J3/12 C08L101/00

CPC: A61K8/0241 A01N25/14 A61K8/066 A61K8/90 A61Q19/00 B01J2/30

European: A01N25/14 A61K8/02A A61K8/04H A61K8/06F A61K8/90 A61Q19/00 B01J2/30

US: 424/401 424/401S 516/54 516/56 524/501 524/502 524/503 524/505 524/801 524/801S

Family:

Publication number	Publication date	Application number	Application date
AU200212423 A1	20020429	AU20020012423	20011022
AU200212423 A5	20020429	AU20020012423	20011022
AU2002212423 AA	20020429	AU20020212423	20011022
CN100522333 C	20090805	CN20018019283	20011022
CN1476351 A	20040218	CN20018019283	20011022
DE60148074 D1	20130808	DE20016048074	20011022
EP1326705 A1	20030716	EP20010980621	20011022
EP1326705 B1	20130612	EP20010980621	20011022
FR2815550 A1	20020426	FR20000013466	20001020
FR2815550 B1	20030829	FR20000013466	20001020
JP2004511631 T2	20040415	JP20020535795T	20011022
JP4838484 B2	20111214	JP20020535795T	20011022
US2005277727 AA	20051215	US20030399653	20030811
US2006258795 AA	20061116	US20060490339	20060720
US7101931 BB	20060905	US20030399653	20030811
US7589144 BB	20090915	US20060490339	20060720
WO0232563 A1	20020425	WO2001FR03272	20011022

Priority:

FR20000013466 20001020 EP20010980621 20011022 WO2001FR03272 20011022
US20030399653 20030811 US20060490339 20060720

Probable Assignee: RHODIA CHIMIE

Assignee(s): (std): RHODIA CHEMICAL CO LTD ; RHODIA CHIMIE ; RHONE POULENC CHIMIE ; TAISNE LAURENT ; TAISNE ; RHODIA CHIMIE SA ; LANNIBOIS DREAN HELENE ; MORVAN MIKEL

Assignee(s): N A

Inventor(s): (std): L TAISNE ; LANNIBOIS DREAN H ; LANNIBOIS DREAN HELENE ; H LANNIBOIS DREAN ; M MORVAN ; MORVAN M ; MORVAN MIKEL ; TAISNE ; TAISNE L ; TAISNE LAURENT

Inventor(s): MIKEL MORVAN ; HELENE LANNIBOIS DREAN ; LAURENT TAISNE

Agent(s): DELENNE MARC ; RHODIA OPERATIONS ; AXIS PATENT INT ; JEAN LOUIS SEUGNET, INTELLECTUAL PROPERTY DEPARTMENT ; JEAN LOUIS SEUGNET INTELLECTUAL PROPERTY DEPARTMENT ; RHODIA INC LEGAL DEPARTMENT ; HUNTON AND WILLIAMS LLP

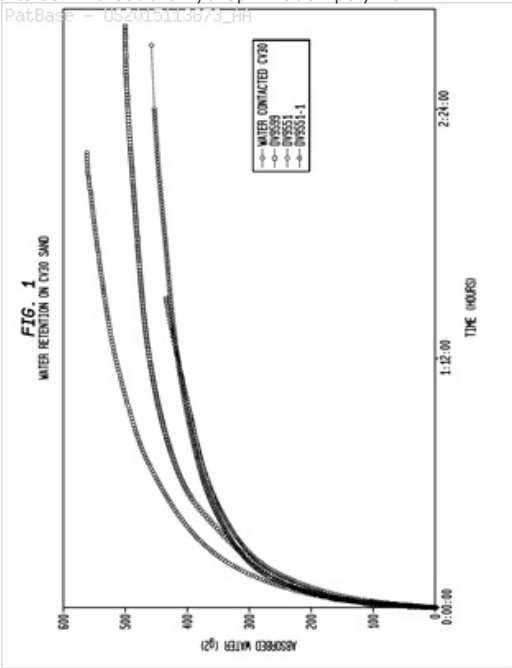
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PH PL PT RO RU SD SE SG SI SK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

Title: HYDROPHILIZATION POLYMERS AND METHODS FOR USE

Abstract: Source: US2015113873A [EN] Soil/seed hydrophilization polymers comprising: monomer Ab comprising at least one betaine group or at least one cationic group; and optionally, monomer Ba comprising at least one non-ionic group or at least one anionic group, wherein the polymer is water-soluble or water-dispersible; and provided that if the monomer Ab comprises a cationic group, the monomer Ba must be present and comprise an anionic group. Also disclosed are methods for treating soil comprising contacting the hydrophilization polymer with the soil, with improvements including increase in hydrophilicity of the soil, increase in root characteristics, increase in germination rates, as compared to soil without the hydrophilization polymer.

Classifications:

International (IPC 8-9): A01C1/00 A01C1/06 A01C14/00 C09D153/00 C09D5/14 C09K17/18 E02D3/12 (Advanced/Invention)
CPC: A01C1/06 E02D3/126 C09K17/18 C08F220/38 C08F2220/387 Y02A40/40
US: 47/58.1SC 71/27



Family:

Publication number	Publication date	Application number	Application date
AU2014343368 AA	20150507	AU20140343368	20141030
AU2014343368 BB	20180308	AU20140343368	20141030
CN105874034 A	20160817	CN201480071945	20141030
EP3063251 A2	20160907	EP20140837034	20141030
US2015113873 AA	20150430	US20140527812	20141030
WO15063605 A2	20150507	WO2014IB02980	20141030
WO15063605 A3	20150813	WO2014IB02980	20141030

Priority:

US20130898068P 20131031 US20140527812 20141030 WO2014IB02980 20141030

Probable Assignee: RHODIA OPERATIONS

Assignee(s): (std): RHODIA OPERATIONS

Inventor(s): (std): BALASTRE MARC ; KOSTKA STANLEY J ; MCMILLAN MICA

Agent(s): SPRUSON AND FERGUSON; TEIPEL STEPHAN

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: COMPOSITION FOR HOUSEHOLD CARE CONTAINING A CATIONIC NANOGEL

Abstract: Source: US2011271460A [EN] The present invention relates to compositions for household care which include a cationic nanogel, particularly for treating and/or modifying hard or textile surfaces. The composition particularly enables a hydrophilisation of hard surfaces, particularly useful in cleaning or rinsing operations.

Classifications:

International (IPC 8-9): C08F2/38 C08F236/20 C08F293/00 C11D1/00 C11D17/00 C11D3/00 C11D3/37

D06L1/20 (Advanced/Invention);

B82Y30/00 (Advanced/Non-invention);

C08F2/38 C08F293/00 C11D1/00 C11D17/00 C11D3/00 C11D3/37 (Core/Invention)

CPC: C11D3/0026 C11D3/0036 C11D3/3773 C11D17/003

European: C11D17/00B6 C11D3/00B5 C11D3/00B7 C11D3/37C8F

US: 510/180 510/191 510/221 510/235 510/299 510/299S 510/400 510/400S 510/475 524/548 524/556 525/326.7 525/329.4 525/330.3 526/306 526/306S 8/137 8/137P 977/788 977/788S 977/902 977/902S 977/961 977/961S

Family:

Publication number	Publication date	Application number	Application date
BRPI0919642 A2	20151208	BR2009PI19642	20091019
CN102227496 A	20111026	CN200980147857	20091019
CN104804897 A	20150729	CN201510077115	20091019
DE602009024449 D1	20140717	DE200960024449T	20091019
EP2346974 A1	20110727	EP20090740106	20091019
EP2346974 B1	20140604	EP20090740106	20091019
FR2937336 A1	20100423	FR20080005854	20081022
FR2937336 B1	20110610	FR20080005854	20081022
IN02703CN2011 A	20120824	IN2011CN02703	20110421
US2011271460 AA	20111110	US20090125769	20091019
US8791058 BB	20140729	US20090125769	20091019
WO10046342 A1	20100429	WO2009EP63670	20091019

Priority:

FR20080005854 20081022 CN200980147857 20091019 EP20090740106 20091019
WO2009EP63670 20091019

Probable Assignee: RHODIA OPERATIONS

Assignee(s): (std): GONZALEZ I IGO ; GONZALEZ INIGO ; KARAGIANNI KATERINA ; RHODIA OPERATIONS ; WILSON DAVID JAMES

Inventor(s): (std): GONZALEZ I IGO ; GONZALEZ INIGO ; INIGO GONZALEZ ; JAMES WILSON DAVID ; KARAGIANNI KATERINA ; KATERINA KARAGIANNI ; WILSON DAVID JAMES ; WILSON JAMES

Inventor(s): DAVID JAMES WILSON ; WILSON DAVID

Agent(s): LAVOIX MUNICH; JACOBSON CLAUDE; RHODIA SERVICES; RHODIA OPERATIONS; HUNTON AND WILLIAMS LLP; BOITTIAUX VINCENT ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT 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: EMULSIFIED WATER BLENDED FUELS PRODUCED BY USING A LOW ENERGY **PROCESS** AND NOVEL SURFACTANT

Abstract: Source: US2004111955A [EN] A novel low energy **process** to produce water in oil emulsions in particular water blended fuels by employing a low molecular weight surfactant with an emulsifier package.

Classifications:

International (ipc 8-9): B01F17/00 B01F3/08 C10L1/02 C10L1/10 C10L1/32 C10L10/02 (Advanced/Invention);

C10L1/12 C10L1/16 C10L1/18 C10L1/22 C10L1/24 C10L1/26 (Advanced/Non-invention);

B01F17/00 C10L1/10 C10L1/32 C10L10/00 (Core/Invention)

International (ipc 1-7): B01F17/00 B01F3/08 C10L1/02 C10L1/10 C10L1/32 C10L10/02

CPC: C10L10/12 B01F17/0085 C10L1/10 C10L1/125 C10L1/1266 C10L1/1691 C10L1/1802 C10L1/1824 C10L1/1826 C10L1/1852

C10L1/1857 C10L1/1881 C10L1/1883 C10L1/1888 C10L1/19 C10L1/191 C10L1/198 C10L1/1985 C10L1/221 C10L1/2222

C10L1/2225 C10L1/224 C10L1/226 C10L1/23 C10L1/2364 C10L1/238 C10L1/2383 C10L1/2387 C10L1/2437 C10L1/2641

C10L1/2658 C10L1/328 C10L10/02

European: B01F17/00Z C10L1/10 C10L1/32D C10L10/02 M10L1/12D2 M10L1/12E M10L1/16W M10L1/182B2 M10L1/182B4

M10L1/185B M10L1/185C M10L1/188B M10L1/188B2 M10L1/188H M10L1/18F M10L1/19 M10L1/198 M10L1/198F M10L1/19D

M10L1/222B M10L1/222B2 M10L1/224 M10L1/226 M10L1/22W M10L1/23 M10L1/236D M10L1/238 M10L1/2383 M10L1/2387

M10L1/24C1 M10L1/26B1 M10L1/26B3

US: 44/301 44/301P 44/385 44/385S

Family:

Publication number	Publication date	Application number	Application date
 AU2003297186 AA	20040709	AU20030297186	20031204
 CA2509285 AA	20050610	CA20032509285	20031204
 EP1570033 A1	20050907	EP20030813463	20031204
 US2004111955 AA	20040617	US20020319668	20021213
 US2006162237 AA	20060727	US20060335311	20060119
 WO04055137 A1	20040701	WO2003US40041	20031204

Priority:

US20020319668 20021213 WO2003US40041 20031204 US20060335311 20060119

Probable Assignee: LUBRIZOL CORP

Assignee(s): (std): DI BIASE STEPHEN A ; DUNCAN DAVID A ; FILIPPINI BRIAN B ; LUBRIZOL CORP ; MULLAY JOHN J ; STECKEL THOMAS F ; WESTFALL DAVID L

Inventor(s): (std): BIASE STEPHEN A DI ; DI BIASE STEPHEN A ; DUNCAN DAVID A ; FILIPPINI BRIAN B ; MULLAY JOHN J ; STECKEL THOMAS F ; WESTFALL DAVID L

Inventor(s): WESTFALL DAVID ; STECKEL THOMAS ; MULLAY JOHN ; FILIPPINI BRIAN ; DUNCAN DAVID ; DI BIASE STEPHEN ; STEPHEN A DI BIASE ; THOMAS F STECKEL ; JOHN J MULLAY ; BRIAN B FILIPPINI ; DAVID A DUNCAN ; DAVID L WESTFALL

Agent(s): RIDOUT AND MAYBEE LLP; LUBRIZOL ATTN DOCKET CLERK PATENT DEPT CORP

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 KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

Title: SURFACTANT-POLYMER BLENDS

Abstract: Source: US2012213725A [EN] The present invention relates to surfactant-polymer blends that are useful as thickeners for a variety of personal care products. In one embodiment, the surfactant-polymer blends of the present invention comprises: (a) at least one anionic surfactant; (b) at least one amphoteric or zwitterionic surfactant; and (c) at least one hydrophobically-modified polymer formed from a mixture comprising: (i) an α , β -ethylenically unsaturated carboxylic acid monomer; (ii) a nonionic, co-polymerizable α , β -ethylenically unsaturated monomer; and (iii) an ethylenically unsaturated hydrophobically-modified associative monomer. The surfactant-polymer blends of the present invention are useful as thickeners in a variety of products including, but not limited to, personal care products, health care products, household care products, institutional and industrial care products, and industrial applications.

Classifications:

International (IPC 8-9): A61K8/04 A61K8/81 A61Q19/10 A61Q5/02 A61Q5/06 A61Q5/12 C08K5/00 C08L33/06 (Advanced/Invention);

A61K8/04 C08L33/06 (Advanced/Non-invention)

CPC: C08K5/0008 A61K8/463 A61K8/8152 A61Q5/02 A61Q5/06 A61Q5/12 A61Q19/10 C08L33/06

European: A61K8/46C A61K8/81K4 A61Q19/10 A61Q5/02 C08K5/00P K61Q5/06 K61Q5/12 M08L33/06

US: 424/70.16 424/70.160P 510/476 510/476S

Family:

Publication number	Publication date	Application number	Application date
EP2504386 A1	20121003	EP20100782476	20101109
EP2504386 B1	20170322	EP20100782476	20101109
US2012213725 AA	20120823	US20100508051	20101109
WO11062805 A1	20110526	WO2010US55962	20101109

Priority:

US20090263436P 20091123 US20100508051 20101109 WO2010US55962 20101109

Probable Assignee: LUBRIZOL ADVANCED MATERIALS INC

Assignee(s): (std): GALLEGUILLOS RAMIRO ; LUBRIZOL ADVANCED MAT INC ; MULLEE JAMES E ; PUROHIT PINKY G

Assignee(s): LUBRIZOL ADVANCED MATERIALS INC

Inventor(s): (std): GALLEGUILLOS RAMIRO ; MULLEE JAMES E ; PUROHIT PINKY G

Agent(s): VON KREISLER SELTING WERNER; DOMPATENT VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENT U RECHTSANWALTEN MBB; DUNLAP THOBURN T ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU 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: DENTAL ARTICLES, METHODS, AND KITS INCLUDING A COMPRESSIBLE MATERIAL

Abstract: Source: US2008096150A [EN] The present invention provides dental articles, kits, and methods including a compressible material. The compressible material optionally includes a hardenable dental composition (e.g., an adhesive or primer) that can be useful for bonding the dental article (e.g., an orthodontic appliance) to a tooth structure. Removal of excess hardenable and/or hardened dental composition, if desired, can be facilitated for embodiments in which the hardenable dental composition is an unfilled or lightly filled composition.

Classifications:

International (IPC 8-9): A61C13/15 A61C3/00 A61C7/00 A61C7/14

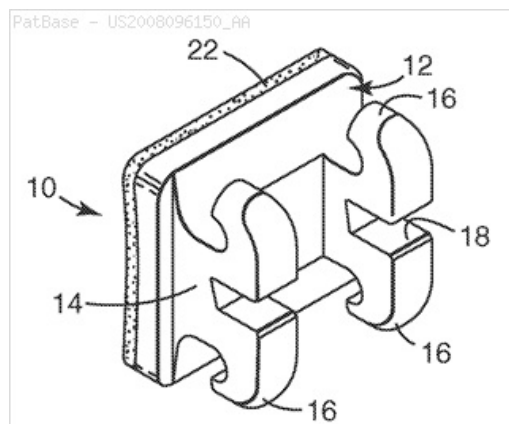
A61C7/16 A61C7/28 A61K6/00 (Advanced/Invention);

A61C3/00 A61C7/00 A61K6/00 (Core/Invention)

CPC: A61C7/16 A61C2202/00 A61C2202/01 A61C19/003 A61C7/146 A61C7/14

European: A61C7/14 A61C7/14P K61C202/00 K61C202/01

US: 433/3 433/9 433/9P



Family:

Publication number	Publication date	Application number	Application date
AU2007309207 AA	20080502	AU20070309207	20071018
AU2007309207 BB	20110602	AU20070309207	20071018
BRPI0716365 A2	20130924	BR2007PI16365	20071018
CN101557772 A	20091014	CN200780045044	20071018
CN101557772 B	20121010	CN200780045044	20071018
EP2076202 A1	20090708	EP20070854149	20071018
EP2076202 A4	20110608	EP20070854149	20071018
EP2076202 B1	20160713	EP20070854149	20071018
EP3108848 A1	20161228	EP20160177283	20071018
JP2010507682 T2	20100311	JP20090534777T	20071018
JP5307720 B2	20131002	JP20090534777T	20071018
US2008096150 AA	20080424	US20060551823	20061023
US2009233252 AA	20090917	US20090428989	20090423
US2017095317 AA	20170406	US20160380144	20161215
US9539065 BB	20170110	US20090428989	20090423
WO08051775 A1	20080502	WO2007US81708	20071018

Priority:

US20060551823 20061023 EP20070854149 20071018 WO2007US81708 20071018
US20090428989 20090423 US20160380144 20161215

Probable Assignee: 3M CO

Assignee(s): (std): 3M CO ; 3M INNOVATIVE PROPERTIES CO ; 3M INNOVATIVE PROPERTIES COMPANY ; 3M INNOVATIVE PROPERTIES CO ; CINADER JR DAVID K

Assignee(s): 3M INNOVATIVE PROPERTIES COMPANY ; 3M INNOVATIVE PROPERTIES CO

Inventor(s): (std): CINADER JR DAVID K ; CINADER DAVID K JR ; CINADER DAVID K

Inventor(s): DAVID K CINADER JR ; JR DAVID K CINADER

Agent(s): DAVIES COLLISON CAVE PTY LTD; DAVIES COLLISON CAVE; VOSSIUS AND PARTNER; VOSSIUS AND PARTNER PATENTANWALTE RECHTSANWALTE MBB; VOSSIUS AND PARTNER PATENTANWALTE RECHTSANWALTE MBB; AOKI ATSUSHI; ISHIDA TAKASHI; KOGA TETSUJI; 3M INNOVATIVE PROPERTIES COMPANY; 3M INNOVATIVE PROPERTIES CO; CHRISTOFF JAMES D ET AL

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: COSMETIC/DERMATOLOGICAL INVERSE EMULSIONS CONTAINING CALCITRIOL AND CLOBETASOL 17-PROPIONATE

Abstract: Source: US2005281850A [EN] Topically applicable cosmetic/dermatological compositions useful for the treatment of disorders of the skin, notably psoriasis, comprise inverse emulsions containing a glycol or water-glycol dispersed **hydrophilic** phase, a lipophilic continuous phase, an emulsifier having an HLB of between 2 and 7 and also having calcitriol and clobetasol 17-propionate dissolved therein.

Classifications:

International (ipc 8-9): A61K31/57 A61K31/59 A61K31/592 A61K31/593 A61K31/70 A61K47/06 A61K47/10 A61K47/14 A61K47/22 A61K47/32 A61K47/34 A61K47/44 A61K8/63 A61K8/67 A61K9/10 A61K9/107 A61P17/00 A61P17/06 A61P29/00 A61P37/08 A61P43/00

A61Q19/00 (Advanced/Invention);

A61K31/57 A61K31/593 A61K9/10 A61K9/107 A61P17/06 A61Q19/08 (Advanced/Non-invention);

A61K31/57 A61K31/59 A61K31/70 A61K47/00 A61K47/06 A61K47/10 A61K47/14 A61K47/22 A61K47/32 A61K47/34 A61K8/30

A61K9/00 A61K9/10 A61K9/107 A61P17/00 A61P29/00 A61P37/00 A61P43/00 A61Q19/00 (Core/Invention);

A61K9/10 A61K9/107 A61Q19/08 (Core/Non-invention)

International (ipc 1-7): A61K31/57 A61K31/59 A61K31/593 A61K31/70 A61K47/10 A61K47/44 A61K7/00 A61K7/48 A61K9/107

A61P17/00 A61P17/06

CPC: A61K8/064 A61K8/63 A61K9/0014 A61K9/107 A61K31/57 A61K31/59 A61K31/593 A61K47/10 A61Q19/00 A61Q19/08

European: A61K31/57 A61K31/59 A61K31/593 A61K47/10 A61K8/06B A61K8/63 A61K9/00M3 A61Q19/00 K61K9/107

K61Q19/08

US: 424/401 424/401P 514/167 514/167S 514/171 514/171S

Family:

Publication number	Publication date	Application number	Application date
AT375161 E	20071015	AT20050777134T	20050615
AU2005261570 AA	20060119	AU20050261570	20050615
BRPI0510893 A	20071127	BR2005PI10893	20050615
CA2567682 AA	20061121	CA20052567682	20050615
CN1972693 A	20070530	CN200580020089	20050615
DE602005002844 D1	20071122	DE200560002844T	20050615
DE602005002844 T2	20080710	DE200560002844T	20050615
DE602005002844 T3	20110630	DE200560002844T	20050615
EP1758591 A1	20070307	EP20050777134	20050615
EP1758591 B1	20071010	EP20050777134	20050615
EP1758591 B2	20101215	EP20050777134	20050615
ES2296218 T3	20080416	ES20050777134T	20050615
ES2296218 T5	20110505	ES20050777134T	20050615
FR2871699 A1	20051223	FR20040006612	20040617
IN07633DN2006 A	20070817	IN2006DN07633	20061218
JP2008502662 T2	20080131	JP20070515997T	20050615
KR20070028424 A	20070312	KR20067026569	20061215
MXPA06014406 A1	20070219	MX2006PA14406	20050615
RU2007101539 A	20080727	RU20070101539	20050615
US2005281850 AA	20051222	US20040944887	20040921
WO06005843 A1	20060119	WO2005FR01495	20050615

Priority:

FR20040006612 20040617 EP20050777134 20050615 WO2005FR01495 20050615

Probable Assignee: GALDERMA SA

Assignee(s): (std): GALDERMA SA ; ORSONI SANDRINE ; ZANUTTO LESLIE ; FREDON LAURENT

Assignee(s): GALDERMA S A

Inventor(s): (std): FREDON LAURENT ; ORSONI SANDRINE ; LAURENT ZANUTTO LESLIE ORSONI ; ZANUTTO LESLIE

Inventor(s): ZANUTTO LESLIE ORSONI SANDRINE FREDON LAURENT ; LESLIE ZANUTTO ; ORSONI SANDRINE LES JARDINS DE MANDELIEU ; SANDRINE ORSONI ; FREDON LAURENT CHEMIN DU CAMOUYER ; LAURENT FREDON

Agent(s): GRIFFITH HACK; ROBIC; ALLAB MYRIAM; BUCHANAN INGERSOLL PC, (INCLUDING BURNS DOANE SWECKER AND MATHIS)

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

PatBase - KR20070028424_A

$$a_w = \frac{P_{H_2O} \text{ 생성물}}{P_{H_2O} \text{ 순수}} = \frac{N_{H_2O}}{N_{H_2O} + N_{\text{생성물}}}$$

Title: Ultra-fine particulated polymer latex and composition containing the same

Abstract: Source: US4943612A [EN] An ultra-fine particulated polymer latex having an average particle size of 100 nm or less, a crosslinked structure and a glass transition temperature lower than a value calculated by a weight fraction method.

Classifications:

International (ipc 8-9): C03C25/10 C04B24/24 C04B24/26 C04B26/04 C04B35/00 C04B35/632 C04B41/63 C08F2/16 C08F2/22 C08F2/30 C08J3/02 C09D133/04 C09D133/06 C09D157/00 C09D4/00 C09D5/00 C09D5/02 C09D5/23 C09D5/24 C09D5/34 C09D7/12 C09J1/00 C09J133/04 C09J157/00 C09J201/00 C09J4/00 C09K3/10 D04H1/58 D04H1/587 D04H1/64 D06M15/00 D06M15/26 D06M15/263 D21H17/37 D21H19/20 D21H21/18 E02D31/02 E04G23/02 G02B6/44 G03C1/04 G03C1/053 G03C1/95 G03F7/004 G03G9/08 G03G9/087 G11B5/62 G11B5/70 G11B5/702 G11B5/708 H01B1/20 (Advanced/Invention); C04B103/60 (Advanced/Non-invention); C03C25/10 C04B24/00 C04B26/00 C04B35/00 C04B35/63 C04B41/60 C08F2/12 C08J3/02 C09D133/04 C09D133/06 C09D157/00 C09D4/00 C09D5/23 C09D5/24 C09D5/34 C09J1/00 C09J133/04 C09J157/00 C09J4/00 D04H1/58 D04H1/64 D06M15/00 D06M15/21 D21H21/14 G02B6/44 G03C1/04 G03C1/053 G03C1/95 G03F7/004 G03G9/08 G03G9/087 G11B5/62 G11B5/70 G11B5/702 G11B5/708 H01B1/20 (Core/Invention)

International (ipc 1-7): C03C25/02 C04B103/60 C04B24/24 C04B24/26 C04B35/00 C04B41/63 C08F2/16 C08F2/22 C08F2/24 C08F2/30 C08F20/18 C08J3/02 C09D3/74 C09D4/00 C09D5/02 C09D5/24 C09D7/12 C09J1/00 C09J3/00 C09J3/14 C09J3/16 C09J4/00 C09K3/10 D04H1/58 D04H1/64 D06M15/00 D06M15/263 D21H1/34 D21H17/37 D21H19/20 D21H3/38 E02D31/02 E04G23/02 G02B6/44 G03C1/04 G03F7/004 G03F7/10 G03G9/08 G11B5/62 G11B5/702 G11B5/708 H01B1/20

CPC: C09J157/00 C04B24/26 C04B26/04 C08F2/22 C09D157/00 D21H21/18 G03C1/053 G03C1/95 G03G9/08793 G11B5/702

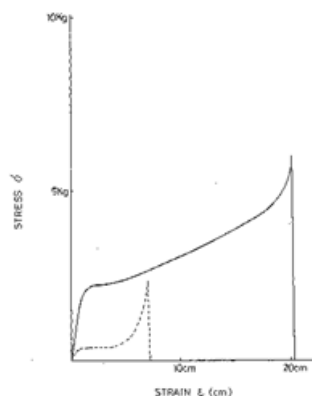
European: C04B24/26 C04B26/04 C08F2/22 C09D157/00 C09J157/00 D21H21/18 G03C1/053 G03C1/95 G03G9/087H4 G11B5/702

US: 524/714 524/729 524/745 524/759 524/829 524/831 G9B/5.244

PatBase - US4943612_R

U.S. Patent Jul. 24, 1990 Sheet 1 of 3 4,943,612

Fig.1



Family:

Publication number	Publication date	Application number	Application date
AT72669 E	19920315	AT19870310673T	19871203
DE3776776 D1	19920326	DE19873776776	19871203
EP0273605 A2	19880706	EP19870310673	19871203
EP0273605 A3	19880727	EP19870310673	19871203
EP0273605 B1	19920219	EP19870310673	19871203
JP2077402 A2	19900316	JP19870305564	19871204
JP2523317 B2	19960807	JP19870102732	19870424
JP2566797 B2	19961225	JP19870305367	19871201
JP2657216 B2	19970924	JP19870149980	19870615
JP2665742 B2	19971022	JP19870102737	19870424
JP63258969 A2	19881026	JP19870305364	19871201
JP63260846 A2	19881027	JP19870305367	19871201
JP63260855 A2	19881027	JP19870305366	19871201
JP63264678 A2	19881101	JP19870149980	19870615
JP63266408 A2	19881102	JP19870102733	19870424
JP63266630 A2	19881102	JP19870305365	19871201
JP63268774 A2	19881107	JP19870102735	19870424
JP63270369 A2	19881108	JP19870102734	19870424
JP63270780 A2	19881108	JP19870305363	19871201
JP63270850 A2	19881108	JP19870102731	19870424
JP63270871 A2	19881108	JP19870102732	19870424
JP63270891 A2	19881108	JP19870102736	19870424
JP63270892 A2	19881108	JP19870102737	19870424
JP63284284 A2	19881121	JP19870305368	19871201
JP63311347 A2	19881220	JP19870149983	19870615
JP63311358 A2	19881220	JP19870149982	19870615
US4943612 A	19900724	US19870128657	19871203

Priority:

JP19860290839	19861206	JP19860290840	19861206	JP19860290841	19861206
JP19860290842	19861206	JP19860290843	19861206	JP19860290845	19861206
JP19860290846	19861206	JP19860290844	19861206	JP19870076037	19870331
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JP19870102737	19870424	JP19870149980	19870615	JP19870149982	19870615
JP19870149983	19870615	JP19870305365	19871201	JP19870305363	19871201
JP19870305368	19871201	JP19870305364	19871201	JP19870305367	19871201

JP19870305366 19871201 EP19870310673 19871203 JP19870305564 19871204

Probable Assignee: LION CORP

Assignee(s): (std): LION CORP

Assignee(s): LION CORP TOKIO TOKYO JP ; RAION KK

Inventor(s): (std): ISHIBASHI YASUO ; ISHIZAKI YASUO ; MORITA HIROSHI ; HIROTA EIICHI ; HIROTA HIDEKAZU

Inventor(s): HIROTA EIICHI FUNABASHI SHI CHIBA JP ; MORITA HIROSHI CHIBA SHI CHIBA JP ; ISHIZAKI YASUO
KATSUSHIKA KU TOKYO JP

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

Title: CONTINUOUS PRODUCTION METHOD OF WATER-SOLUBLE POLYMER AND WATER-SOLUBLE POLYMER

Abstract: Source: US2007049710A [EN] To provide a continuous production method for producing a water-soluble polymer with a narrow molecular weight distribution with high efficiency. A continuous production method of a water-soluble polymer, comprising the steps of: circulating a circulation liquid containing a monomer having a polymerizable unsaturated bond through a reaction apparatus: having a tank and a circulation line comprising a piping circulating outside the tank, and thereby producing a water-soluble polymer continuously; and discharging part of the circulation liquid from a discharge line, wherein the circulation line is provided with a cooling device at least at one position.

Classifications:

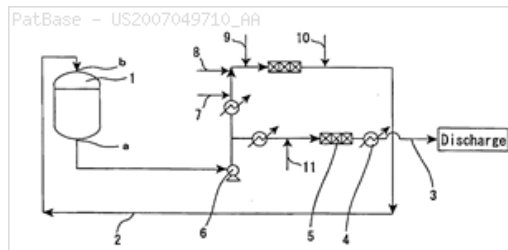
International (IPC 8-9): B01F17/52 C02F1/68 C08F120/06 C08F2/00 C08F2/01 C08F2/10 C08F20/04 C08F20/06 C08F220/06 C08G2/00 C08L33/02 C11D3/37 (Advanced/Invention); C08F220/06 (Advanced/Non-invention); B01F17/52 C02F1/68 C08F2/00 C08F2/01 C08F2/04 C08F20/00 C08F220/00 C08G2/00 C08J9/00 C08L33/00 C11D3/37 (Core/Invention); C08F220/00 (Core/Non-invention)

International (IPC 1-7): C08F2/00 C08F220/06

CPC: B01J14/00 B01J19/0013 B01J2219/0011 B01J2219/00123 C08F2/00 C08F220/06

European: B01J14/00 B01J19/00B2 C08F2/00 C08F220/06 L01J219/00B2D6D L01J219/00B2H2

US: 526/317.1 526/317.100S 526/68 526/68P



Family:

Publication number	Publication date	Application number	Application date
AT459655 E	20100315	AT20060119753T	20060830
BRPI0603543 A	20070427	BR2006PI03543	20060831
CN100582128 C	20100120	CN200610126432	20060831
CN1923865 A	20070307	CN200610126432	20060831
DE602006012603 D1	20100415	DE200660012603T	20060830
EP1783144 A2	20070509	EP20060119753	20060830
EP1783144 A3	20080430	EP20060119753	20060830
EP1783144 B1	20100303	EP20060119753	20060830
IN00880KO2006 A	20070629	IN2006KO00880	20060830
JP2007217654 A2	20070830	JP20060235374	20060831
JP5553467 B2	20140716	JP20060235374	20060831
MXPA06009849 A1	20070321	MX2006PA09849	20060830
RU2006131296 A	20080310	RU20060131296	20060830
US2007049710 AA	20070301	US20060512284	20060830
US7951886 BB	20110531	US20060512284	20060830

Priority:

JP20050251515 20050831 JP20060012985 20060120 JP20060235374 20060831

Probable Assignee: NIPPON SHOKUBAI CO LTD

Assignee(s): (std): NIPPON CATALYTIC CHEM IND ; NIPPON SHOKUBAI CO LTD

Assignee(s): NIPPON SHOKUBAI CO

Inventor(s): (std): KOZUKI HIDEKAZU ; KOZUKI SHUICHI ; NAKATANI KAORI ; SAKAMOTO NOBORU ; TSUMORI TAKAHIRO ; WAKAMI HIDEO ; YONEDA ATSURO ; YONEDA JUNRO ; TAKAHIRO TSUMORI ; NOBORU SAKAMOTO ; KAORI NAKATANI ; HIDEO WAKAMI ; HIDEO KOZUKI HIDEKAZU SAKAMOTO ; HIDEKAZU KOZUKI ; ATSURO YONEDA

Inventor(s): KOZUKI HIDEKAZU SAKAMOTO NOBORU TSUMORI TAKAHIRO Y ; KOZUKI HIDEKAZU SAKAMOTO NOBORU TSUMORI

Agent(s): HART DAVIS JASON; CONNOLLY BOVE LODGE AND HUTZ LLP

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO RS SE SI SK TR YU

Title: AMINO GROUP-CONTAINING WATER-SOLUBLE COPOLYMER

Abstract: Source: US2008262192A [EN] To provide an amino group-containing water-soluble copolymer having a high chelating performance and clay dispersancy and a method of producing the amino-group containing water-soluble copolymer efficiently and with high productivity. A water-soluble polymer containing an amino group-containing monomer unit, wherein the water-soluble polymer has a molecular weight distribution of 12 or less, and a method of producing the water-soluble polymer according to any one of claims 1 to 4, wherein the method comprises a step of polymerizing an amino group-containing allyl monomer using an initiator containing a heavy metal ion and sulfurous acid (sulfite), hydrogensulfite or hydrogen peroxide.

Classifications:

International (IPC 8-9): B01F17/16 B01F17/52 C02F5/10 C08F16/28 C08F216/14 C08F220/06 C08F4/40 C08G63/685 C08G73/02 C08G75/00 C11D3/37 D06M15/34 D06M15/347 (Advanced/Invention);

B01F17/16 B01F17/52 C02F5/10 C08F16/00 C08F4/00 C08G63/00 C08G73/00 C08G75/00 C11D3/37 D06M15/21 (Core/Invention)

CPC: C02F1/56 C02F5/10 C08F216/1458 C08F220/06 C11D3/0036 C11D3/3769 C11D3/3773 D06M15/347

European: C02F1/56 C08F216/14F C08F220/06 C11D3/00B7 C11D3/37C8 C11D3/37C8F D06M15/347 M02F5/10

US: 528/332 528/332P 528/391 528/391S 528/422 528/422S

Family:

Publication number	Publication date	Application number	Application date
JP2008523162 T2	20080703	JP20060527214T	20051213
JP5178008 B2	20130410	JP20060527214T	20051213
US2008262192 AA	20081023	US20050721768	20051213
US8106149 BB	20120131	US20050721768	20051213
WO06064940 A1	20060622	WO2005JP23211	20051213

Priority:

JP20040360883 20041214 JP20060527214 20051213 WO2005JP23211 20051213

Probable Assignee: NIPPON SHOKUBAI CO LTD

Assignee(s): (std): NIPPON CATALYTIC CHEM IND ; YONEDA ATSURO

Assignee(s): NIPPON SHOKUBAI CO ; NIPPON SHOKUBAI CO LTD

Inventor(s): (std): YONEDA ATSURO

Agent(s): CONNOLLY BOVE LODGE AND HUTZ 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 HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LK LR LS LT LU LV LY 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: THICKENED AMINO ACID SURFACTANT COMPOSITIONS AND METHODS THEREFOR

Abstract: In one embodiment, the surfactant-polymer blend of the present invention comprises: (a) at least one amino acid surfactant and (b) at least one hydrophobically-modified polymer polymerized from a monomer mixture comprising: (i) an α,β -ethylenically **unsaturated carboxylic acid** monomer; (ii) a nonionic, co-polymerizable α,β -ethylenically unsaturated monomer; and (iii) an ethylenically unsaturated hydrophobically-modified associative monomer. In another embodiment, the surfactant-polymer blend of the present invention comprises: (a) at least one amino acid surfactant; (b) at least one hydrophobically-modified polymer formed from a mixture comprising: (i) an α,β -ethylenically **unsaturated carboxylic acid** monomer; (ii) a nonionic, co-polymerizable α,β -ethylenically unsaturated monomer; and (iii) an ethylenically unsaturated hydrophobically-modified associative monomer; and (c) at least one secondary thickener selected from an alkoxyated methyl glucose ether which has been esterified with a fatty acid.

Classifications:

International (IPC 8-9): A61K8/44 A61K8/81 B01F17/28 B01F17/42 B01F17/52 B01F17/56 C08F220/04 C08F220/12 C08K5/17 C08L33/02 C08L33/04 C08L33/06 C08L35/02 (Advanced/Invention); C08L33/06 C08L35/02 C09K3/00 C11D1/10 C11D1/74 C11D3/37 (Advanced/Non-invention); C08K5/17 (Core/Invention)

CPC: C08K5/175 A61K8/44 A61K8/8152 A61Q5/02 A61Q19/10 C08L33/062 C08L35/02 C11D1/10 C11D3/3757 C08L33/06 C08K5/17 C08L33/02

European: A61K8/44 A61K8/81K4 A61Q19/10 A61Q5/02 C08K5/17B C11D1/10 C11D3/37C6 M08L33/06B M08L35/02

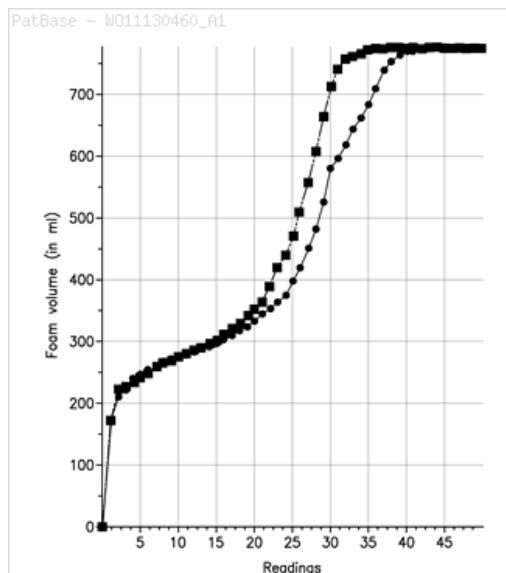


FIG-5

Family:

Publication number	Publication date	Application number	Application date
■ CN102892823 A	20130123	CN201180024147	20110414
■ CN102892823 B	20160217	CN201180024147	20110414
■ DE602011012301 D1	20150129	DE201160012301T	20110414
■ EP2558525 A1	20130220	EP20110718183	20110414
■ EP2558525 B1	20141217	EP20110718183	20110414
■ EP2558525 B2	20180404	EP20110718183	20110414
■ JP2013530257 T2	20130725	JP20130505122T	20110414
■ JP5921528 B2	20160524	JP20130505122T	20110414
■ KR20130094712 A	20130826	KR20127029850	20110414
■ TH134710 A	20140611	TH20121005424	20110414
■ WO11130460 A1	20111020	WO2011US32390	20110414

Priority:

US20100324248P 20100414 EP20110718183 20110414 WO2011US32390 20110414

Probable Assignee: LUBRIZOL ADVANCED MAT INC

Assignee(s): (std): HE XIAOQUN ; LIU XIN ; LUBRIZOL ADVANCED MAT INC ; TJO KWE SUNG ; YAO GE

Assignee(s): LUBRIZOL ADVANCED MATERIALS, INC. ; LUBRIZOL ADVANCED MATERIALS INC CLEVELAND

Inventor(s): (std): HE XIAOQUN ; LIU XIN ; TJO KWE SUNG ; YAO GE

Inventor(s): LIU XIN 200093

Agent(s): VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENTANWALTEN U RECHTSANWALTEN MBB;
VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENTANWALTEN U RECHTSANWALTEN MBB;
DOMPATENT VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENT U RECHTSANWALTEN MBB;
DUNLAP THOBURN T ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU 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: EXOTHERMIC COMPOSITION AND EXOTHERMIC ARTICLE USING THE COMPOSITIONS, AND METHOD FOR PRODUCING THE EXOTHERMIC ARTICLE

Abstract: Source: US2004042965A [EN] It relates to a heat-generating composition having such dispersion stability that withstands continuous molding, and has excellent drainage property, excellent heat-generating characteristics, excellent molding property and excellent shape retaining property, without becoming viscous, and relates to a heat-generating body using the same and a **process** for producing the heat-generating body. It contains, as essential components, a heat-generating substance generating heat upon reaction with oxygen, a carbon component, an oxidation promoter and water, characterized in that the composition further contains a water separation-preventing stabilizer in a proportion of from 0.001 to 0.25 part by mass per 100 parts by mass of the heat-generating composition, and has a water mobility value of from 7 to 40 and a separation degree of from 0 to 30.

Classifications:

International (IPC 8-9): A61F7/03 A61F7/08 C09K5/16 C09K5/18 F24J1/00 F24V30/00 (Advanced/Invention);

C09K5/18 (Advanced/Non-invention);

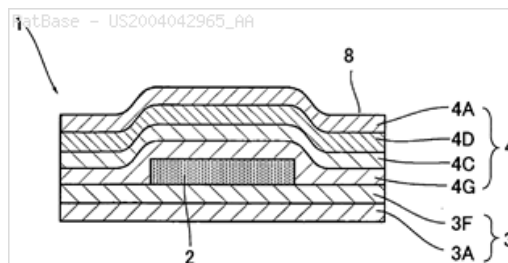
A61F7/02 A61F7/08 C09K5/00 F24J1/00 (Core/Invention)

International (IPC 1-7): A61F7/08 A61K9/72 C09K3/00 C09K5/16 C09K5/18

CPC: A61F7/034 A61F2007/0098 A61F2007/038 F24J1/00 C09K5/18

European: A61F7/03D2 A61F7/04C4B C09K5/18 F24J1/00 K61F7/00W K61F7/03D2A2

US: 252/183.13 252/183.130S 424/40 424/40P



Family:

Publication number	Publication date	Application number	Application date
CA2432544 AA	20030619	CA20022432544	20021025
CN1491271 A	20040421	CN20028004725	20021025
EP1439213 A1	20040721	EP20020777954	20021025
JP2003129041 A2	20030508	JP20010328344	20011025
KR20040052207 A	20040622	KR20037009917	20021025
US2004042965 AA	20040304	US20030450521	20030619
WO03035792 A1	20030501	WO2002JP11097	20021025

Priority:

JP20010328344 20011025 WO2002JP11097 20021025

Probable Assignee: MYCOAL WARMERS CO LTD

Assignee(s): (std): AIDA MICHIO ; DODO TOSHIHIRO ; KIMURA HISAO ; MAIKOORU KK ; MYCOAL WARMERS CO LTD ; NAKAMURA MASATO ; SAKAMAKI YOSHIKAZU ; USUI KAORU

Assignee(s): MYCOAL WARMERS CO

Inventor(s): (std): HISAO KIMURA ; MICHIO AIDA ; TOSHIHIRO DODO ; USUI KAORU ; SAKAMAKI YOSHIKAZU ; NAKAMURA MASATO ; MOMO HISAHIRO ; KIMURA HISAO ; DODO TOSHIHIRO ; AIDA MICHIO

Agent(s): OGILVY RENAULT LLP SENCRL SRL

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

Title: EMULSION FOR CONVEYING A HYDROPHOBIC ACTIVE MATERIAL TO A SUBSTRATE IN AQUEOUS MEDIUM

Abstract: Source: US2007128142A [EN] Emulsion (E) comprising a hydrophobic phase (O) containing and/or consisting of a hydrophobic active material (A), which is in the form of a multiple emulsion (Em) comprising: an inner inverse emulsion (Ei) comprising the continuous phase (O), a dispersed aqueous phase (Wi) and, at the interface of the two phases, a stabilizer (Di) as a water-soluble or water-dispersible polysaccharide with a mean degree of polymerization of at least 1.5 and preferably of at least 20, the Brookfield viscosity of which, at 25 degrees centigrade as a 1 percent solution in water, is less than 20 000 mPa.s, and free of lipophilic polyorganosiloxane substituting groups, and an aqueous or water-miscible outer phase (We), in which is dispersed the inner emulsion (Ei), or in a solid form (Es), which is water-dispersible as a multiple emulsion (Em); the emulsion (E), after being used in an aqueous medium (B), can convey the hydrophobic active material to a substrate present in or in contact with said aqueous medium (B).

Classifications:

International (IPC 8-9): A61K8/02 A61K8/04 A61K8/06 A61K8/19 A61K8/23 A61K8/24 A61K8/25 A61K8/36 A61K8/362 A61K8/365 A61K8/37 A61K8/40 A61K8/44 A61K8/64 A61K8/73 A61K8/81 A61K8/86 A61K8/88 A61K8/89 A61K8/898 A61K8/90 A61K8/92 A61K9/113 A61Q11/00 A61Q19/00 A61Q19/10 A61Q5/00 A61Q5/02 B01F17/00 B01F17/56 C11D1/82 C11D1/86 C11D3/22 C11D3/37 C23G5/02 D06L1/12 (Advanced/Invention);

A61K8/02 A61K8/04 A61K8/19 A61K8/30 A61K8/72 A61K8/92 A61K9/113 A61Q11/00 A61Q19/00 A61Q19/10 A61Q5/00 A61Q5/02 B01F17/00 B01F17/56 C11D1/82 C11D1/86 C11D3/22 C11D3/37 C23G5/00 D06L1/00 (Core/Invention)

International (IPC 1-7): A61K7/00 A61K7/075 A61K7/08 A61K7/16 A61K7/48 A61K9/113 B01F17/00 B01F17/56 C11D1/82 C11D1/86 C11D3/37

CPC: A61K8/06 A61K8/066 A61K8/737 A61Q5/02 A61Q5/12 A61Q17/04 A61Q19/00 A61Q19/10 B01F17/0028 B01F17/0071 C11D3/222 C11D3/373 C11D17/0017 D06M15/03 D06M15/643 A61K8/0208 B01F17/005 B01F17/0085 B01F17/0092

European: A61K8/02C A61K8/06 A61K8/06F A61K8/73R A61Q19/00 A61Q19/10 A61Q5/02 B01F17/00E2 B01F17/00K2 B01F17/00V B01F17/00Z B01F17/00Z2 C11D17/00B3 C11D3/22E C11D3/37B12 D06M15/03 D06M15/643 K61Q17/04 K61Q19/10 K61Q5/02 K61Q5/12

US: 424/70.12 424/70.120P 424/70.13 424/70.130S 424/70.14 424/70.140S 424/70.16 424/70.160S 510/320 510/320S

Family:

Publication number	Publication date	Application number	Application date
EP1684894 A1	20060802	EP20040805319	20041027
FR2862234 A1	20050520	FR20030013284	20031113
FR2862234 B1	20060217	FR20030013284	20031113
FR2862235 A1	20050520	FR20040000665	20040123
FR2862235 B1	20071228	FR20040000665	20040123
JP2007519506 T2	20070719	JP20060538885T	20041027
US2007128142 AA	20070607	US20040579512	20041027
WO05049189 A1	20050602	WO2004FR02762	20041027

Priority:

FR20030013284 20031113 FR20040000665 20040123 WO2004FR02762 20041027

Probable Assignee: RHODIA CHIMIE

Assignee(s): (std): DRENO ANNE GAELE ; HARRISON IAN ; LANNIBOIS HELENE ; PRAT EVELYNE ; RHONE POULENC CHIMIE ; RHODIA CHIMIE SA

Assignee(s): RHODIA CHIMIE ; N A

Inventor(s): (std): DRENO ANNE GAELE ; HARRISON IAN ; LANNIBOIS HELENE ; PRAT EVELYNE

Inventor(s): HELENE LANNIBOIS ; IAN HARRISON ; EVELYNE PRAT ; ANNE GAELE DRENO ; DRENO ANNE GAELE

Agent(s): RHODIA OPERATIONS; SHUSA ENDOH; JEAN LOUIS SEUGNET, RHODIA INC; JEAN LOUIS SEUGNET RHODIA INC

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

Title: THERMOPLASTIC RESIN COMPOSITION, WATER-BASED COMPOSITION, HEAT-SENSITIVE PRESSURE-SENSITIVE ADHESIVE, AND HEAT-SENSITIVE SHEET

Abstract: A thermoplastic composition comprising a thermoplastic resin and a solid plasticizer, characterized in that the solid plasticizer consists of at least one compound selected among (i) esters having two or more ester groups and obtained from (A) an alcohol (A1) having an alkyl-substituted cyclohexene ring in which the total number of carbon atoms in the substituent is 3 or larger or an alcohol (A2) having a cross-linked ring including a six-membered carbon ring with (B) a polybasic acid, (iia) phosphorus compounds having a melting point of 55 to 100 DEG C, and (iia) diesters of (C1) hydroquinone, resorcinol, or catechol in each of which the benzene ring may be substituted by an alkyl group with (D) an organic monobasic acid. The composition is highly safe for human genital organs, and is used as or in a heat-sensitive pressure-sensitive adhesive or a heat-sensitive pressure-sensitive adhesive sheet having excellent blocking resistance.

Classifications:

International (IPC 8-9): B32B27/22 B41J2/01 B41M5/00 B41M5/50 B41M5/52 C08F265/00 C08F291/00 C08K5/05 C08K5/10 C08K5/101 C08K5/103 C08K5/107 C08K5/12 C08K5/13 C08K5/42 C08K5/50 C08K5/51 C08K5/52 C08K5/521 C08L101/00 C08L101/10 C08L101/16 C08L51/00 C08L83/07 C09D1/04 C09D163/00 C09D5/00 C09D5/02 C09J11/06 C09J11/08 C09J125/14 C09J133/00 C09J133/04 C09J133/06 C09J133/08 C09J143/04 C09J151/00 C09J151/08 C09J163/00 C09J201/00 C09J201/10 C09J5/06 C09J5/10 C09J7/02 G09F3/04 (Advanced/Invention);

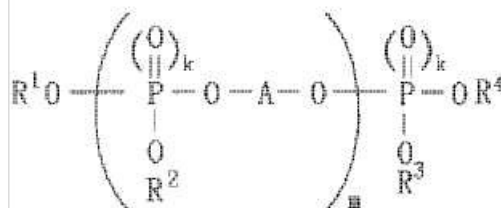
B41M1/30 B41M5/00 B41M5/26 C08L67/00 (Advanced/Non-invention); B32B27/22 B41J2/01 B41M5/00 B41M5/50 C08F265/00 C08F291/00 C08K5/00 C08L101/00 C08L51/00 C08L83/00 C09D1/00 C09D163/00 C09D5/00 C09D5/02 C09J11/00 C09J11/02 C09J125/00 C09J133/00 C09J133/04 C09J133/06 C09J143/00 C09J151/00 C09J163/00 C09J201/00 C09J5/06 C09J5/10 C09J7/02 G09F3/04 (Core/Invention); B41M1/26 B41M5/00 B41M5/26 C08L67/00 (Core/Non-invention)

International (IPC 1-7): B32B27/22 B41J2/01 B41M1/30 B41M5/00 C08F230/08 C08F246/00 C08F265/00 C08F291/10 C08K3/36 C08K5/05 C08K5/10 C08K5/101 C08K5/103 C08K5/107 C08K5/12 C08K5/13 C08K5/42 C08K5/49 C08K5/50 C08K5/51 C08K5/52 C08K5/521 C08L101/00 C08L101/10 C08L101/16 C08L57/06 C08L83/07 C09D1/04 C09D163/00 C09D5/00 C09D5/02 C09J11/06 C09J133/06 C09J133/08 C09J151/08 C09J163/00 C09J201/00 C09J201/10 C09J5/06 C09J5/10 C09J7/02 G09F3/04

CPC: C08L2666/02 B41M5/52 B41M5/26 B41M5/5254 C08F265/00 C08F291/00 C08K5/0016 C08L51/003 C08L67/00 C09J133/06 C09J143/04 C09J151/003 C09J2201/606

European: B41M5/00 B41M5/52 C08F265/00 C08F291/00 C08L51/00 B C09J133/04 C09J133/04+B4K C09J133/06 C09J143/04 C09J151/00 B L41M5/26 L41M5/52K M08K5/00P1 M08L67/00 M09J201/606

PatBase - JP3910743_B2



Family:

Publication number	Publication date	Application number	Application date
EP0989162 A1	20000329	EP19990910761	19990330
EP0989162 A4	20021106	EP19990910761	19990330
JP11293131 A2	19991026	JP19980121869	19980414
JP2000008007 A2	20000111	JP19990112193	19990420
JP2000008008 A2	20000111	JP19990112197	19990420
JP2000008022 A2	20000111	JP19990113701	19990421
JP2000053874 A2	20000222	JP19990092678	19990331
JP2000086935 A2	20000328	JP19980276446	19980910
JP2000103969 A2	20000411	JP19980274088	19980928
JP2000104031 A2	20000411	JP19980274087	19980928
JP2000104041 A2	20000411	JP19980274089	19980928
JP2000127607 A2	20000509	JP19980303724	19981026
JP2000127608 A2	20000509	JP19980303725	19981026
JP2000129229 A2	20000509	JP19980303723	19981026
JP2000129234 A2	20000509	JP19980303722	19981026
JP2000191920 A2	20000711	JP19980372831	19981228
JP2000191921 A2	20000711	JP19980372832	19981228
JP2000191922 A2	20000711	JP19980372833	19981228
JP2000212527 A2	20000802	JP19990016289	19990125
JP3910743 B2	20070425	JP19980372831	19981228
JP3910744 B2	20070425	JP19980372833	19981228
JP4129087 B2	20080730	JP19980276446	19980910
JP4307601 B2	20090805	JP19980303722	19981026
WO9950356 A1	19991007	WO1999JP01613	19990330

Priority:

JP19980086649	19980331	JP19980121869	19980414	JP19980109492	19980420
JP19980109495	19980420	JP19980110733	19980421	JP19980276446	19980910
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WO1999JP01613	19990330	JP19990092678	19990331	JP19990112193	19990420

Probable Assignee: DAICEL GROUP

Assignee(s): (std): DAICEL CORP ; MIZUMOTO KIYOHARU ; NAGASAWA MASAKATSU ; INOKAMI KIYOTAKA ; MIKI TERUHIKO ; KUDO MASATAKA ; IDEHARA KENJI ; BABA TSUNEO ; DAICEL CHEM ; DAICEL GROUP ; TAKAHASHI IKUO ; NAKANISHI KAZUHIRO ; OHMORI YASUHIRO ; TANABIKI FUMIO ; OHSHIMA HIROYUKI ; TAKEMOTO SHIN

Assignee(s): DAICEL CHEMICAL IND LTD ; DAICEL CHEMICAL INDUSTRIES LTD ; DAICEL CHEM IND LTD ; DAISEL CHEMICAL INDUSTRIES LTD

Inventor(s): (std): BABA TSUNEO ; IDEHARA KENJI ; INOKAMI KIYOTAKA ; KUDO MASATAKA ; IKAMI KIYOTAKA ; IZUHARA KENJI ; MIZUMOTO KIYOHARU ; NAKANISHI KAZUHIRO ; OHMORI YASUHIRO ; NAGASAWA MASAKATSU ; OHSHIMA HIROYUKI ; MIKI TERUHIKO ; MIZUMOTO SEIJI ; KUDOU MASATAKE ; TAKAHASHI IKUO ; TANABIKI FUMIO ; TAKEMOTO SHIN ; OMORI YASUHIRO ; OSHIMA HIROYUKI

Designated states: BE DE FR GB IT US

Title: Stabilized water-soluble polymer powders on the basis of polyoxy alkylene glycol carboxylates and method for producing same

Abstract: Source: US6573316B [EN] Stabilized, water-soluble polymer powders based on **polyoxyalkylene** glycol carboxylates are described, wherein the powders comprise from 0.01 to 10 percent by weight of a stabilizer selected from the group consisting of phenols, amines, phosphites, thioethers, and also thioacids, and where the stabilizer was added in liquid or dissolved form to the aqueous polymer solution prior to its conversion into the powder form. The polymer powders thus protected against autoignition and oxidative degradation have unexpectedly high thermooxidative stability, even on exposure to high temperatures and oxidizing action (air, oxygen).

Classifications:

International (IPC 8-9): C04B24/32 C08G65/332 C08G81/02 C08J3/12 C08J3/21 C08J3/215 C08K5/00 C08K5/13 C08K5/17 C08K5/372 C08K5/39 C08K5/42 C08K5/524 C08L33/14 C08L51/00 C08L55/00 (Advanced/Invention);

C08J3/12 C08L55/00 (Advanced/Non-invention);

C04B24/00 C08G65/00 C08J3/12 C08J3/20 C08K5/00 C08L55/00 (Core/Invention)

International (IPC 1-7): C04B24/32 C08J3/12 C08J3/20 C08J3/215 C08K5/00 C08K5/13 C08K5/17 C08K5/18 C08K5/34 C08K5/37 C08K5/372 C08K5/38 C08K5/39 C08K5/42 C08K5/524 C08L55/00 C08L71/02 C09K15/08 C09K15/10 C09K15/18

CPC: C08G65/3322 C08J3/21 C08J2371/02 C08J2387/00 C08K5/005

European: C08G65/332D C08J3/21 C08K5/00P6 M08J371/02 M08J387/00

US: 524/100 524/106 524/96

Family:

Publication number	Publication date	Application number	Application date
AT277112 E	20041015	AT19990950546T	19990923
AU199963291 A1	20000410	AU19990063291	19990923
AU199963291 A5	20000410	AU19990063291	19990923
AU750708 B2	20020725	AU19990063291	19990923
CA2344546 AA	20010316	CA19992344546	19990923
CA2344546 C	20080212	CA19992344546	19990923
DE19843730 A1	20000330	DE19981043730	19980924
DE59910599 D1	20041028	DE19995010599	19990923
DK1124892 T3	20050124	DK19990950546T	19990923
EP1124892 A1	20010822	EP19990950546	19990923
EP1124892 B1	20040922	EP19990950546	19990923
ES2229775 T3	20050416	ES19990950546T	19990923
JP2002526583 T2	20020820	JP20000574169T	19990923
JP4603165 B2	20101222	JP20000574169T	19990923
PT1124892 T	20050131	PT19990950546T	19990923
US6573316 BA	20030603	US20000720922	20001228
WO0017263 A1	20000330	WO1999EP07103	19990923

Priority:

DE19981043730 19980924 DE19995010599 19990923 WO1999EP07103 19990923

Probable Assignee: CONSTRUCTION RESEARCH AND TECHNOLOGY GMBH

Assignee(s): (std): ALBRECHT GERHARD ; BICHLER MANFRED ; DEGUSSA CONSTRUCTION CHEM GMBH ; SUEDEDEUTSCHE KALKSTICKSTOFF ; WEICHMANN JOSEF ; WUTZ KONRAD ; KERN ALFRED ; SKW BAUCHEMIE GMBH

Assignee(s): SKW TROSTBERG AG ; SKW TROSTBERG AKTIENGESellschaft ; DEGUSSA CONSTRUCTION CHEMICALS GMBH ; CONSTRUCTION RESEARCH AND TECHNOLOGY GMBH

Inventor(s): (std): BICHLER MANFRED ; ALBRECHT GERHARD ; ALBRECHT GERHARD DR ; KERN ALFRED ; KERN ALFRED DR ; MANFRED BICHLER ; WEICHMANN JOSEF ; WEICHMANN JOSEF DR ; WUTZ KONRAD

Inventor(s): KONRAD WUTZ ; ALFRED KERN ; DR ALFRED KERN ; DR GERHARD ALBRECHT ; DR JOSEF WEICHMANN ; GERHARD ALBRECHT ; JOSEF WEICHMANN

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; OGILVY RENAULT LLP SENCRL SRL

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

Title: POURED IN PLACE SURFACE COOLING TECHNOLOGY

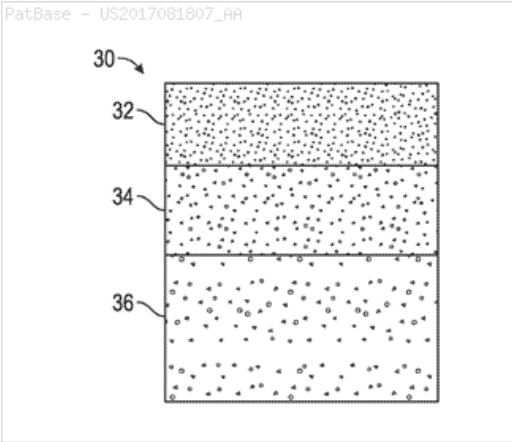
Abstract: Source: US2017081807A [EN] The present invention provides for synthetic PIP surfacing materials surfacing materials and methods of making such materials wherein the surfaces of the materials have been modified with **hydrophilic** properties. The present invention also includes surfacing materials wherein a coating material is included with the surfacing to substantially modify the surfacing material with water retention or **hydrophilic** properties

Classifications:

International (IPC 8-9): B05D1/30 B05D5/04 B05D7/02 B05D7/06
C09D121/00 C09D175/04 E01C13/06 (Advanced/Invention)

CPC: E01C13/065 C09D121/00 B32B25/00 E01C13/02

US: 428/492



Family:

Publication number	Publication date	Application number	Application date
US2017081807 AA	20170323	US20150861291	20150922

Priority:

US20150861291 20150922

Probable Assignee:	TETRAULT CHRISTOPHER
Assignee(s): (std):	TETRAULT CHRISTOPHER
Inventor(s): (std):	TETRAULT CHRISTOPHER

Title: WATER- AND OIL-REPELLENCY IMPARTING ESTER OLIGOMERS COMPRISING PERFLUOROALKYL MOIETIES

Abstract: Source: US2008306238A [EN] Fluorochemical ester compositions comprising one or more compounds or oligomers having at least one long chain fluorine-containing repeatable unit and at least one fluorine-containing terminal group are described. The compositions are useful as coatings. The fluorochemical compositions impart oil and water repellency to the substrate. In other aspects, this invention relates to **processes** for imparting oil and water repellency characteristics to substrates and articles.

Classifications:

International (IPC 8-9): B05D3/00 B05D3/02 B05D7/24 B32B27/08 C07C311/09 C08G18/09 C08G18/38 C08G18/62 C08G18/67 C08G63/00 C08G63/68 C08G63/682 C08G63/91 C08J7/04 C08K5/29 C08K5/435 C08L23/06 C08L23/28 C08L27/12 C08L33/08 C08L33/24 C08L61/28 C08L67/00 C08L67/02 C08L67/06 C08L75/04 C08L75/06 C08L75/14 C08L79/00 C08L79/08 C09D167/00 C09D167/02 C09D167/06 C09D175/06 C09D175/14 C09D179/00 C09D185/00 C09D201/04 C09D5/00 C09K3/18 D06M10/00 D06M13/236 D06M13/248 D06M13/395 D06M13/398 D06M13/402 D06M15/19 D06M15/227 D06M15/263 D06M15/277 D06M15/29 D06M15/37 D06M15/423 D06M15/507 D06M15/564 D06M15/59 (Advanced/Invention); C08L33/16 C08L61/28 C08L63/00 D06M101/32 D06M101/34 (Advanced/Non-invention); B05D3/00 B05D3/02 B32B27/08 C07C311/00 C08G63/00 C08K5/00 C08L27/00 C08L33/00 C08L67/00 C08L79/00 C09D185/00 C09D201/02 C09D5/00 C09K3/18 D06M10/00 D06M13/00 (Core/Invention)

CPC: C08L2666/20 C08L2666/04 C08L2666/18 C08J7/047 C08L33/16 C08L61/28 C08L63/00 C08L79/00 C09D167/02 C09D179/00 Y10T428/3154 C09D5/1662 C08G63/6826 B05D3/0254 B05D7/24 D06M2101/32 D06M2101/34 D06M15/59 C08L67/02 Y10T428/249921 C08G18/09 C08G18/38 C08G18/62 C08G18/67 C08G63/00 C08G63/68 C08G63/682 C08L67/00 C08L67/06 C08L75/04 C08L75/06 C08L75/14 C09D167/00 C09D167/06 C09D175/06 C09D175/14 D06M15/19 D06M15/37 D06M15/507 Y10T442/2164 Y10T442/2172 Y10T442/2189 Y10T428/31551 Y10T428/31786

European: C08G63/682D2 C08J7/04L C08L67/02 C08L79/00 C09D167/02 C09D179/00 C09D5/16H3 M08L33/16 M08L61/28 M08L63/00 M08L79/00

US: 252/8.62 427/385.5 427/385.500P 427/393.5 428/221 428/421 428/423.1 428/480 524/538 524/538S 524/590 525/420 525/420S 525/55 525/55S 528/271 528/401 528/59 528/60 528/65 528/66 528/75

Family:

Publication number	Publication date	Application number	Application date
CN101679229 A	20100324	CN200880019252	20080606
CN101679705 A	20100324	CN200880019317	20080606
CN101679705 B	20131211	CN200880019317	20080606
EP2158264 A1	20100303	EP20080770382	20080606
EP2158264 A4	20121212	EP20080770382	20080606
EP2167462 A2	20100331	EP20080770376	20080606
JP2010529263 T2	20100826	JP20100511376T	20080606
JP2010530445 T2	20100909	JP20100511379T	20080606
JP2015025140 A2	20150205	JP20140214244	20141021
JP6133829 B2	20170524	JP20140214244	20141021
US2008306238 AA	20081211	US20080134434	20080606
US2010173085 AA	20100708	US20080602888	20080606
US2010227148 AA	20100909	US20100778824	20100512
US2015176200 AA	20150625	US20150638244	20150304
US8993116 BB	20150331	US20080602888	20080606
US9828722 BB	20171128	US20150638244	20150304
WO08154414 A2	20081218	WO2008US66170	20080606
WO08154414 A3	20090219	WO2008US66170	20080606
WO08154421 A1	20081218	WO2008US66177	20080606

Priority:

US20070942701P 20070608	US20070942719P 20070608	JP20100511379 20080606
JP20100511379T 20080606	US20080134434 20080606	US20080602888 20080606
WO2008US66177 20080606	WO2008US66170 20080606	US20090602888 20091203
US20100778824 20100512	US20150638244 20150304	

Probable Assignee: 3M CO

Assignee(s): (std): 3M CO ; 3M INNOVATIVE PROPERTIES CO ; BUTLER THOMAS M ; ELSBERND CHERYL L S ; JARIWALA CHETAN P

Assignee(s): ELSBERND CHERYL L ; 3M INNOVATIVE PROPERTIES COMPANY

Inventor(s): (std): ELSBERND CHERYL L S ; JARIWALA CHETAN P ; THOMAS M BUTLER ; CHETAN P JARIWALA ; CHERYL L S ELSBERND ; BUTLER THOMAS M

Inventor(s): ELSBERND CHERYL L ; ELSBERND CHERYL LS

Agent(s): VOORTMANS GILBERT J L; AOKI ATSUSHI; KOGA TETSUJI; ISHIDA TAKASHI; 3M INNOVATIVE PROPERTIES COMPANY; 3M INNOVATIVE PROPERTIES CO; JORDAN ROBERT H ET AL

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

Title: STABLE SOLID COMPOSITIONS OF SPORES, BACTERIA, FUNGI AND/OR ENZYME

Abstract: Source: US2006293212A [EN] The present invention relates to a stable solid cleaning composition including a borate salt and spores (bacterial or fungal), vegetative bacteria, or fungi, and to methods of using the composition.

Classifications:

International (IPC 8-9): C11D1/14 C11D1/20 C11D1/22 C11D1/28 C11D1/72 C11D1/722 C11D17/00 C11D3/02 C11D3/04 C11D3/16 C11D3/20 C11D3/30 C11D3/37 C11D3/38 C11D3/384 C11D3/386 C11D3/48 C12N1/00 (Advanced/Invention); C11D1/02 C11D1/722 C11D17/00 C11D3/02 C11D3/04 C11D3/16 C11D3/26 C11D3/37 C11D3/38 (Core/Invention)

International (IPC 1-7): C11D3/02 C11D3/16 C11D3/30 C11D3/37 C11D3/38 C11D3/386

CPC: C11D3/046 C11D3/166 C11D3/30 C11D3/3707 C11D3/381 C11D3/386

European: C11D3/04S C11D3/16E C11D3/30 C11D3/37B2 C11D3/386 C11D3/38B

US: 510/446

Family:

Publication number	Publication date	Application number	Application date
 AU2006246411 AA	20061116	AU20060246411	20060424
 AU2006246411 BB	20100916	AU20060246411	20060424
 BRPI0611052 A2	20100810	BR2006PI11052	20060424
 BRPI0611052 B1	20171017	BR2006PI11052	20060424
 CN101213285 A	20080702	CN200680023849	20060424
 CN101213285 B	20111214	CN200680023849	20060424
 JP2008540732 T2	20081120	JP20080510031T	20060424
 JP2012237012 A2	20121206	JP20120183428	20120822
 JP5519744 B2	20140611	JP20120183428	20120822
 MX2007013334 A1	20080118	MX20070013334	20060424
 US2006293212 AA	20061228	US20060279654	20060413
 WO06121596 A1	20061116	WO2006US15285	20060424

Priority:

US20050677875P 20050505 US20060279654 20060413 JP20080510031 20060424
JP20080510031T 20060424 WO2006US15285 20060424

Probable Assignee: ECOLAB INC

Assignee(s): (std): BARTELME MICHAEL J ; ECOLAB INC ; GRIESE GREGORY G ; MAN VICTOR F ; TILLESKJOR JACLYN J

Inventor(s): (std): MAN VICTOR F ; TILLESKJOR JACLYN ; TILLESKJOR JACLYN J ; BARTELME MICHAEL J ; GRIESE GREG G ; GRIESE GREGORY G

Inventor(s): MAN VICTOR ; GRIESE GREG ; BARTELME MICHAEL ; VICTOR F MAN ; MICHAEL J BARTELME ; JACLYN J TILLESKJOR ; GREGORY G GRIESE ; MAN VICTOR FUK PONG

Agent(s): SPRUSON AND FERGUSON; AOKI ATSUSHI; ISHIDA TAKASHI; KOGA TETSUJI; MERCHANT AND GOULD PC

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 KN KP KR KZ LC LK LR LS LT LU LV LY 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: AMMONIA-FREE POLYMER DISPERSIONS AS **ADDITIVES** IN MINERAL BUILDING MATERIALS BASED ON HYDRAULIC BINDERS

Abstract: Source: US2002049265A [EN] Ammonia-free polymer dispersions containing at least one copolymer which contains, as polymerized monomers, a) from 40 to 80 percent by weight of at least one ester of acrylic acid with C2-C12-alkanols, b) from 10 to 40 percent by weight of at least one vinylaromatic monomer and/or at least one ester of methacrylic acid with C1-C4-alkanols, c) from 2 to 15 percent by weight of at least one monoester of a C2-C10-alkanediol with acrylic acid or methacrylic acid, d) not more than 1 percent by weight of ethylenically unsaturated monomers which have at least one acid group, or salts thereof, e) less than 5 percent by weight of alpha,beta-ethylenically unsaturated nitrites and f) less than 1 percent by weight of amides of alpha,beta-ethylenically unsaturated mono- and dicarboxylic acids, and the polymer powders or polymer granules obtainable from the polymer dispersion, are used as **additives** for building materials based on hydraulic binders. The building materials based on hydraulic binders and binder formulations which contain these polymers and a **process** for improving the mechanical strength, elasticity and processibility of building materials based on hydraulic binders are also described.

Classifications:

International (IPC 8-9): C04B24/02 C04B24/26 C04B28/02 C08F220/12 C08F220/18 (Advanced/Invention); C04B103/40 (Advanced/Non-invention); C04B24/00 C08F220/00 (Core/Invention)

International (IPC 1-7): C04B103/40 C04B24/26 C04B26/00 C08F220/12 C08F220/18 C08J3/00

CPC: C04B24/2641 C04B24/2688 C04B2111/00422 C08F220/18

European: C04B24/26K C04B24/26V C08F220/18 M04B111/00P50

US: 264/333 524/379 524/379S 524/458 524/492 524/5 524/510 524/523 524/556 524/566 524/5P 524/828 525/221 525/227 525/229 526/318.4 526/318.6

表1 表2 - JP2002137948 A2

分散液	モノマー(質量%)
ED1	70 HBA 20 S 3 AN 6 HBA 1 MAS
ED2	72,5 HBA 18 S 9 HBA 0,5 MAS
ED3	64 HBA 26 HMA 9 HBA 1 AS
ED4	38 HBA 38 HBA 19 S 5 HBA
ED5	38 HBA 34 HBA 24 S 4 HBA
ED6	34 HBA 38 HBA 25 S 3 HBA
VD1	60 HBA 15 S 15,5 AN 8 HBA 1,5 MAS
VD2	62 HBA 28 S 2,5 AN 6 AN 1,5 MAS
VD3	58 HBA 25 S 2 AN 8 HBA 6 MAS
VD4	60 HBA 28 S 2,5 AN 8 HBA 1,5 MAS

Family:

Publication number	Publication date	Application number	Application date
DE10040825 A1	20020307	DE20001040825	20000821
DE50115021 D1	20090917	DE20015015021	20010820
EP1182179 A2	20020227	EP20010120018	20010820
EP1182179 A3	20031112	EP20010120018	20010820
EP1182179 B1	20090805	EP20010120018	20010820
EP1182179 B2	20130313	EP20010120018	20010820
ES2330407 T3	20091210	ES20010120018T	20010820
ES2330407 T5	20130506	ES20010120018T	20010820
JP2002137948 A2	20020514	JP20010249604	20010820
JP5038561 B2	20121003	JP20010249604	20010820
US2002049265 AA	20020425	US20010931889	20010820
US6617387 BB	20030909	US20010931889	20010820

Priority:

DE20001040825 20000821

Probable Assignee: BASF SE

Assignee(s): (std): BASF AG ; BASF SE

Assignee(s): BASF AKTIENGESSELLSCHAFT

Inventor(s): (std): DREHER STEFAN ; PAKUSCH JOACHIM ; RECK BERND

Agent(s): KINZEBACH WERNER; Reitstötter - Kinzebach

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

Title: BONDABLE DENTAL ASSEMBLIES AND METHODS INCLUDING A COMPRESSIBLE MATERIAL

Abstract: Source: US2013280669A [EN] Dental assemblies and related methods of making are provided. The dental assemblies include a dental article with a bonding surface an adhesive having both a compressible material and at least one hardenable dental composition extending across the bonding surface. The compressible material is coupled to the dental article by a first quantity of hardened dental composition extending at least partially through the compressible material and contacting the bonding surface. The hardened dental composition extends over less than the entire bonding surface. Adjacent portions of the compressible material contain a second quantity of unhardened dental composition, preserving flexibility of the compressible material. Advantageously, this configuration was found to enhance bond reliability and facilitate manufacturing.

Classifications:

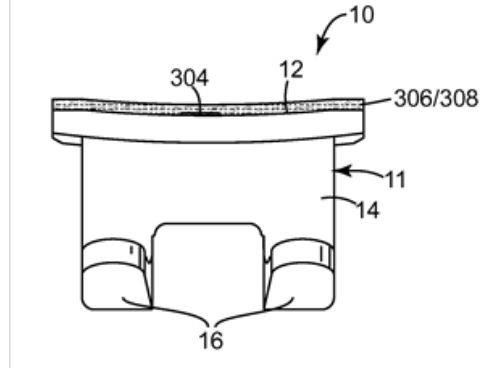
International (IPC 8-9): A61C13/00 A61C3/00 A61C7/00 A61C7/14 A61C7/16 A61K6/00 (Advanced/Invention)

CPC: A61C7/16 A61C7/14 A61C2202/00 A61C2202/01 A61K6/0023 C08L33/04

European: A61C7/14 A61K6/00B K61C202/00 K61C202/01

US: 29/896.1 433/24 433/9

PatBase - US2013280669_AA



Family:

Publication number	Publication date	Application number	Application date
BR112013016445 A2	20160927	BR20131116445	20111212
CN103281986 A	20130904	CN201180063558	20111212
CN103281986 B	20160817	CN201180063558	20111212
EP2658469 A1	20131106	EP20110799584	20111212
JP2014507971 T2	20140403	JP20130547508T	20111212
JP5950936 B2	20160713	JP20130547508T	20111212
US2013280669 AA	20131024	US20110976393	20111212
US2017007369 AA	20170112	US20160271733	20160921
US9480540 BB	20161101	US20110976393	20111212
WO12091902 A1	20120705	WO2011US64356	20111212

Priority:

US20100428498P 20101230 US20110976393 20111212 WO2011US64356 20111212
US20130976393 20130626 US20160271733 20160921

Probable Assignee: 3M CO

Assignee(s): (std): AUNG MA THAZIN ; CINADER DAVID K ; YICK LEE C ; CLEARY JAMES D ; CINADER DAVID K JR ; CINADER JR DAVID K ; 3M CO ; 3M INNOVATIVE PROPERTIES CO

Assignee(s): 3M INNOVATIVE PROPERTIES COMPANY

Inventor(s): (std): AUNG MA THAZIN ; CINADER DAVID K JR ; CLEARY JAMES D ; YICK LEE C ; CINADER JR DAVID K ; CINADER DAVID K ; AUNG MATHAZIN

Inventor(s): DAVID K CINADER JR ; JAMES D CLEARY ; LEE C YICK ; MA THAZIN AUNG

Agent(s): VOSSIUS AND PARTNER; SOO PHILIP P ET AL

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

Title: LITHOGRAPHIC PRINTING PLATE PRECURSOR

Abstract: Source: US2009233222A [EN] A lithographic printing plate precursor includes an image recording layer and a support obtained by subjecting an aluminum plate having an iron content of 0.28 mass percent or less to a surface roughening treatment and to an anodization treatment.

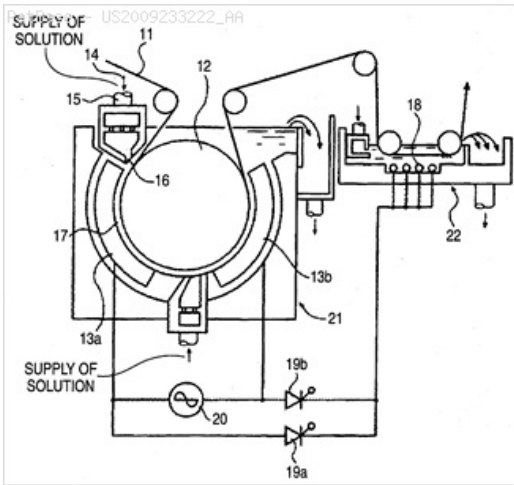
Classifications:

International (IPC 8-9): B41N1/08 B41N1/14 G03F7/00 G03F7/004 G03F7/09 (Advanced/Invention);
B41N1/00 B41N1/12 G03F7/00 G03F7/004 G03F7/09 (Core/Invention)

CPC: B41N1/083

European: B41N1/08A

US: 430/270.1



Family:

Publication number	Publication date	Application number	Application date
JP2009214496 A2	20090924	JP20080062942	20080312
US2009233222 AA	20090917	US20090402377	20090311

Priority:

JP20080062942 20080312

Probable Assignee: FUJIFILM CORP

Assignee(s): (std): FUJIFILM CORP ; KUROKAWA SHINYA ; MORI TAKANORI

Inventor(s): (std): KUROKAWA MASAYA ; KUROKAWA SHINYA ; MORI TAKANORI

Agent(s): BIRCH STEWART KOLASCH AND BIRCH

Title: HIGH EFFICIENCY LOW SLUMP LOSS SUPERPLASTICIZER BASED ON COMB SHAPED POLYCARBOXYLATE ETHER AS WELL AS THE **PROCESS** FOR MANUFACTURE THEREOF.

Abstract: Source: IN01251MU2014A [EN] The present invention is concerned with comb shaped polycarboxylate ethers as well as the **process** for manufacture thereof. Concrete admixtures based on the polymers made according to the present invention exhibit properties such as decreasing the concrete viscosity, enhancing the slump retaining ability and suppressing the bleeding water and thereby improving the **cement** compositions, so that work becomes easy at a field handling **cement** paste, mortar and concrete. Advanced polycarboxylate ethers described in the present invention are copolymers containing **unsaturated carboxylic acids** and their salts, derivatives of the said carboxylic acids and having varying density of pendant chains containing polyalkylene glycol units having different compositions and different chain lengths.

Classifications:

International (IPC 8-9): C08F220/26 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
IN01251MU2014 A	20151009	IN2014MU01251	20140402

Priority:

IN2014MU01251 20140402

Probable Assignee: APPLE CHEMIE INDIA PVT LTD

Assignee(s): (std): APPLE CHEMIE INDIA PVT LTD

Inventor(s): (std): MADHSUDAN M BHAGWAT DR ; VIVEK NAIK

Inventor(s): DR MADHSUDAN M BHAGWAT ; MADHSUDAN M BHAGWAT

Title: Detergent compositions for the removal of complex organic or greasy soils

Abstract: Source: US6425959B [EN] Organic compositions, used neat or in concentrate, are effective in removing complex organic soils from wood, metal and other hard surfaces. The compositions comprise nonionic surfactants, silicone surfactants, hydrotropes and other optional functional materials including sequestrants. Substrates such as laundry and heavily soiled hard surfaces containing a substantial proportion of organic/inorganic soils such as greases, oils and other hard to remove soil materials are readily cleaned by the cleaner compositions of the invention.

Classifications:

International (IPC 8-9): C11D1/72 C11D1/722 C11D1/75 C11D1/82 C11D1/825 C11D11/00 C11D17/08 C11D3/30 C11D3/34 C11D3/37 (Advanced/Invention);

C11D1/75 C11D17/08 (Advanced/Non-invention);

C11D1/72 C11D1/722 C11D1/75 C11D1/82 C11D1/825 C11D11/00 C11D17/08 C11D3/26 C11D3/34 C11D3/37 (Core/Invention); C11D1/75 (Core/Non-invention)

International (IPC 1-7): B08B3/04 C11D1/66 C11D1/72 C11D1/722 C11D1/75 C11D1/82 C11D1/825 C11D17/08 C11D3/16 C11D3/34 C11D3/37

CPC: C11D1/72 C11D1/722 C11D1/75 C11D1/82 C11D1/825 C11D3/30 C11D3/34 C11D3/3738 C11D3/3742 C11D11/0011

European: C11D1/72 C11D1/722 C11D1/82 C11D1/825 C11D11/00B2 C11D3/30 C11D3/34 C11D3/37B12 C11D3/37B12E C11D3/37B12F M11D1/72 M11D1/722 M11D1/75 M11D1/82

US: 134/25.2 134/252 134/39 510/222 510/223 510/225 510/228 510/229 510/230 510/422 510/424 510/466 510/506

Family:

Publication number	Publication date	Application number	Application date
AT284940 E	20050115	AT20000910286T	20000223
AU200032404 A1	20010131	AU20000032404	20000223
AU200032404 A5	20010131	AU20000032404	20000223
AU771840 B2	20040401	AU20000032404	20000223
BRPI0010986 A	20020312	BR2000PI10986	20000223
BRPI0010986 B1	20111213	BR2000PI10986	20000223
CA2377318 AA	20011207	CA20002377318	20000223
CA2377318 C	20091006	CA20002377318	20000223
DE60016744 D1	20050120	DE20006016744	20000223
DE60016744 T2	20060223	DE20006016744T	20000223
EP1187897 A1	20020320	EP20000910286	20000223
EP1187897 B1	20041215	EP20000910286	20000223
JP2003503581 T2	20030128	JP20010506758T	20000223
JP4607398 B2	20110105	JP20010506758T	20000223
MXPA01013382 A1	20020722	MX2001PA13382	20000223
US6425959 BA	20020730	US19990339601	19990624
US6506261 BA	20030114	US20000669711	20000926
WO0100760 A1	20010104	WO2000US04547	20000223

Priority:

US19990339601 19990624 WO2000US04547 20000223 US20000669711 20000926

Probable Assignee: ECOLAB INC

Assignee(s): (std): ECOLAB INC

Assignee(s): ECOLAB INC ST PAUL ; MAN VICTOR F

Inventor(s): (std): MAN VICTOR F

Inventor(s): VICTOR F MAN

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; CASSAN MACLEAN; CASSAN MACLEAN IP AGENCY INC; NISHIYAMA MASAYA; ISHIDA TAKASHI; TSURUTA JUNICHI; HIGUCHI SOTOJI; FUKUMOTO TSUMORU

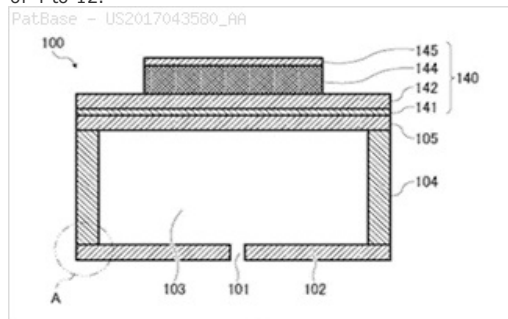
Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR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

Title: LIQUID JET HEAD AND METHOD FOR PRODUCING SAME, AND LIQUID JET APPARATUS AND IMAGE FORMING APPARATUS

Abstract: Source: US2017043580A [EN] Provided is a liquid jet head, including a flow path including a first member, a resin layer, and a second member, wherein the resin layer contains a cured product of a resin composition containing an epoxy compound represented by General Formula (1), a polythiol compound having 2 or more thiol groups in a molecule thereof, and a specific imidazole compound, where in General Formula (1), L is an integer of 0 or greater but less than 3, m is a positive number of 0.1 or greater but less than 50, R1 represents any one of a hydrogen atom, and an alkyl group having 1 to 4 carbon atoms, and R2 represents a substituent represented by a formula below where R3 and R4 each represent any one of hydrogen atom, and a non-substituted or fluorine-substituted methyl group, and n is an integer of 4 to 12.

Classifications:

International (IPC 8-9): B41J2/14 B41J2/16 C08G59/24 C08G59/50 C08G59/66 C09J11/06 C09J163/00 C09J5/00 (Advanced/Invention)
CPC: B41J2/1433 C08G59/245 C08G59/5073 C08G59/66 B41J2/14274 B41J2202/03 B41J2/1606
US: 347/44



Family:

Publication number	Publication date	Application number	Application date
CA2945082 AA	20161006	CA20152945082	20150519
CN106660363 A	20170510	CN201580026761	20150519
EP3145723 A1	20170329	EP20150796728	20150519
EP3145723 A4	20170809	EP20150796728	20150519
JP2015221541 A2	20151210	JP20140107209	20140523
US2017043580 AA	20170216	US20150305723	20150519
US9757944 BB	20170912	US20150305723	20150519
WO15178010 A1	20151126	WO2015JP02501	20150519

Priority:

JP20140107209 20140523 WO2015JP02501 20150519

Probable Assignee: RICOH CO LTD

Assignee(s): (std): ARATANI TOMOYUKI ; HABASHI HISASHI ; MATSUDA TAKUYA ; OGAWA RYO ; RICOH CO LTD ; SAMESHIMA TATSUYA ; TAKAGI DAISUKE ; RICOH KK

Assignee(s): RICOH CO

Inventor(s): (std): ARATANI TOMOYUKI ; ARAYA TOMOYUKI ; HABASHI HISAFUMI ; HABASHI HISASHI ; MATSUDA TAKUYA ; OGAWA AKIRA ; OGAWA RYO ; SAMEJIMA TATSUYA ; SAMESHIMA TATSUYA ; TAKAGI DAISUKE

Agent(s): SMART AND BIGGAR; LAMB MARTIN JOHN CARSTAIRS; HIROTA KOICHI; OBLON MCCLELLAND MAIER AND NEUSTADT LLP

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 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: COMPOSITION FOR CLEANING OR RINSING HARD SURFACES

Abstract: Source: US2006217286A [EN] Composition for cleaning or rinsing hard surfaces in an aqueous or aqueous/alcoholic medium comprising at least one polybetaine for contributing to said surfaces antideposition and/or antiadhesion properties with regard to soiling substances capable of being deposited on said surface.

Classifications:

International (IPC 8-9): C07C323/25 C11D1/02 C11D1/10 C11D1/38 C11D1/66 C11D1/90 C11D11/00 C11D17/08 C11D3/20 C11D3/37 C11D3/395 C11D3/43 (Advanced/Invention);
C11D1/02 C11D1/38 C11D1/66 C11D1/88 C11D11/00 C11D17/08 C11D3/20 C11D3/37 C11D3/395 C11D3/43 (Core/Invention)

International (IPC 1-7): C11D1/90 C11D3/37

CPC: C11D3/3796 C11D11/0023

European: C11D11/00B2D C11D3/37Z

US: 510/109 510/220 510/235 510/382 510/490 510/492 510/495 510/504

Family:

Publication number	Publication date	Application number	Application date
AU2003299381 AA	20041011	AU20030299381	20031219
BRPI0318128 A	20060207	BR2003PI18128	20031219
BRPI0318128 B1	20130827	BR2003PI18128	20031219
CA2516405 AA	20050817	CA20032516405	20031219
CA2516405 C	20120214	CA20032516405	20031219
CN1764713 A	20060426	CN200380110270	20031219
CN1764713 B	20150225	CN200380110270	20031219
EP1594945 A1	20051116	EP20030799667	20031219
EP1594945 B1	20170301	EP20030799667	20031219
ES2626984 T3	20170726	ES20030799667T	20031219
FR2851572 A1	20040827	FR20030009527	20030801
FR2851572 B1	20070406	FR20030009527	20030801
FR2851573 A1	20040827	FR20030002079	20030220
FR2851573 B1	20070420	FR20030002079	20030220
JP2006514150 T2	20060427	JP20050513574T	20031219
JP2010100861 A2	20100506	JP20100024332	20100205
US2006217286 AA	20060928	US20030546768	20031219
US7923428 BB	20110412	US20030546768	20031219
WO04083354 A1	20040930	WO2003FR03841	20031219

Priority:

FR20030002079 20030220 FR20030009527 20030801 EP20030799667 20031219
WO2003FR03841 20031219 JP20050513574 20031219 JP20050513574T 20031219

Probable Assignee: RHODIA CHIMIE

Assignee(s): (std): GEFFROY CEDRIC ; GEOFFROY CEDRIC ; HARRISON IAN ; LABEAU MARIE PIERRE ; RHODIA CHIMIE ; RHONE POULENC CHIMIE ; RHODIA CHIMIE SA

Assignee(s): N A ; RHODIA CHIM

Inventor(s): (std): GEOFFROY CEDRIC ; HARRISON IAN ; IAN HARRISON ; LABEAU MARIE PIERRE ; MARIE PIERRE GEFFROY CEDRIC HA ; MARIE PIERRE LABEAU ; CEDRIC GEFFROY ; GEFFROY CEDRIC

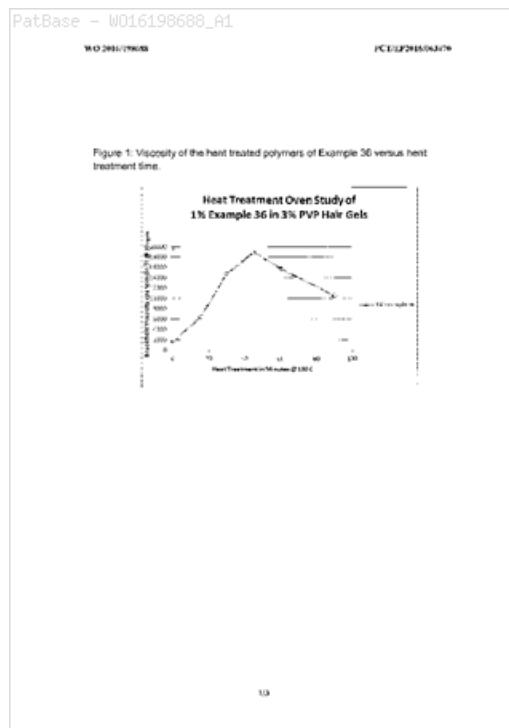
Inventor(s): GEFFROY CEDRIC HARRISON IAN LABEAU MARIE PIERRE ; GEFFROY CEDRIC RES DE LA PORTE DE PARIS

Agent(s): ROBIC ; CARDON FLAVIE ; LEHMANN MARIA ISABEL ; SHUSA ENDOH ; AXIS PATENT INT ; JEAN LOUIS SEUGNET, INTELLECTUAL PROPERTY DEPARTMENT ; JEAN LOUIS SEUGNET INTELLECTUAL PROPERTY DEPARTMENT ; HUNTON AND WILLIAMS 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 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 NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: STABLE RHEOLOGY MODIFIER COMPOSITIONS

Abstract: A dried rheology modifier composition comprises a swellable emulsion polymer and a water soluble support polymer. In one embodiment the swellable emulsion polymer is polymerized in the presence of the water soluble support polymer. In one embodiment the swellable emulsion polymer is blended with the water soluble support polymer. The drying can be accomplished by spray drying, resulting in a non-tacky powder having good shelf life. The dried rheology modifiers can be subjected to a further heat treatment which can result in a rheology modifier that imparts a short flow characteristic to product formulations. The swellable emulsion polymer can be alkali swellable or acid swellable. The water soluble support polymer can be a polysaccharide or a derivative thereof, or a polyvinyl acetate or derivative thereof.

Classifications:**International (IPC 8-9):** C08F2/22 C08L1/02 C08L3/02 C08L3/04 (Advanced/Invention)**CPC:** C08L1/02 C08L3/02 C08L3/04 C08F2/22 C08F2/30 C08F2/44 C08F220/18 C08F220/34 C08F222/16 C08F222/1013**Family:**

Publication number	Publication date	Application number	Application date
AU2016275741 AA	20161215	AU20160275741	20160613
EP3307795 A1	20180418	EP20160733320	20160613
IN201717041474 A	20180126	IN201717041474	20171120
WO16198688 A1	20161215	WO2016EP63470	20160613

Priority:

US20150174576P 20150612 EP20150199606 20151211 WO2016EP63470 20160613

Probable Assignee: AKZO NOBEL NV**Assignee(s):** (std): AKZO NOBEL CHEMICALS INT BV ; AKZO NOBEL NV**Inventor(s):** (std): ADAMO ANTHONY JOHN ; BAILEY ANDREW JAMES ; HAMM JAIME DION ; PANTHA SAJAL ; RODRIGUES KLIN ALOYSIUS ; SOLAREK DANIEL B ; VANDERHOOF MATTHEW MICHAEL**Agent(s):** SPRUSON AND FERGUSON; AKZO NOBEL CHEMICALS IP GROUP; AKZO NOBEL IP DEPARTMENT**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: LIQUID FLUORINE-CONTAINING AND TWO-COMPONENT COMPOSITIONS FOR THE SURFACE TREATMENT OF MINERAL AND NON-MINERAL SUBSTRATES

Abstract: Source: US2009198000A [EN] Fluorine-containing and two-component compositions exhibit improved surface properties for the permanent oil- and water-repellent surface treatment or modification of mineral and non-mineral substrates for various fields of application. At a simultaneously reduced fluorine content, these compositions have considerably improved application properties and, in combination with suitable stabilizing components and **hydrophilic** silane components, they exhibit excellent hydrophobic, oleophobic and soil-repellent properties, having overall excellent storage stability.

Classifications:

International (IPC 8-9): B05D5/08 C08K5/5419 C09D183/00 C09D183/04 C09D183/08 C09D4/00 (Advanced/Invention); B05D5/08 C08K5/00 C09D183/00 C09D183/04 C09D183/08 C09D4/00 (Core/Invention)

CPC: C09D4/00 C09D183/04 C09D183/08

European: C09D183/04 C09D183/08 C09D4/00

US: 524/188

Family:

Publication number	Publication date	Application number	Application date
EP2085442 A1	20090805	EP20080101211	20080201
RU2009103053 A	20100810	RU20090103053	20090130
US2009198000 AA	20090806	US20090362921	20090130

Priority:

EP20080101211 20080201

Probable Assignee: EVONIK DEGUSSA GMBH

Assignee(s): (std): EVONIK DEGUSSA GMBH

Inventor(s): (std): MAIER ALOIS ; SCHROERS MICHAEL ; STEIDL NORBERT ; WEINELT FRANK ; WEINELT FRANK DR ; STEIDL NORBERT DR ; SCHROERS MICHAEL DR ; MAIER ALOIS DR

Agent(s): OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK TR

Title: PLASTICIZER HAVING CATIONIC SIDE CHAINS WITHOUT POLYETHER SIDE CHAINS

Abstract: Source: US2015232597A [EN] The invention relates to the use of at least one comb polymer which includes side chains which have at least one cationic group, and does not include side chains having polyether groups, and which has a main chain which has carboxyl groups, as dispersant for hydraulically setttable compositions. The invention also relates to hydraulically setttable cement compositions, mouldings, comb polymers and method for producing comb polymers.

Classifications:

International (IPC 8-9): C04B24/00 C04B24/28 C08F220/06 C08F220/34 C08F222/10 (Advanced/Invention)

CPC: C08F220/06 C08F220/34 C08F220/36 C04B24/2641

C04B2103/0005 C04B2103/006 C04B2103/408 C08F222/10 C04B24/283 C04B24/2652

US: 524/5 526/312

PatBase - US2015232597_AA

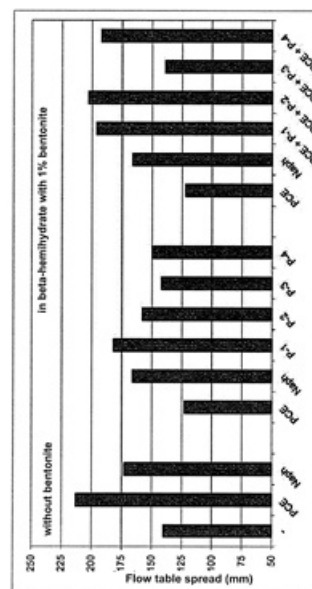


Figure 1

Family:

Publication number	Publication date	Application number	Application date
■ CN104662055 A	20150527	CN201380047429	20131023
■ CN104662055 B	20180306	CN201380047429	20131023
■ EP2912077 A1	20150902	EP20130783887	20131023
■ EP2912077 B1	20180328	EP20130783887	20131023
■ MX2015003338 A1	20150605	MX20150003338	20131023
■ US2015232597 AA	20150820	US20130426028	20131023
■ US9758608 BB	20170912	US20130426028	20131023
■ WO14067832 A1	20140508	WO2013EP72163	20131023

Priority:

EP20120190373 20121029 EP20130783887 20131023 WO2013EP72163 20131023

Probable Assignee: SIKA TECHNOLOGY AG

Assignee(s): (std): SIKA TECH AG ; SIKA TECHNOLOGY AG

Inventor(s): (std): ALSHEMARI JABBAR ; FRIEDERICH MARKUS ; HAMPEL CHRISTINA ; ZIMMERMANN JOERG

Agent(s): SIKA PATENT ATTORNEYS; OLIFF PLC

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: HIGHLY STABLE AQUEOUS SOLUTION OF PARTIALLY SAPONIFIED VINYL ESTER RESIN

Abstract: Source: US6573327B [EN] An aqueous solution of partially hydrolyzed vinyl ester resin having an excellent stability and useful particularly as a secondary agent for suspension polymerization of vinyl compounds, wherein the partially hydrolyzed vinyl ester resin has a degree of hydrolysis of at most 70 percent by mole, it is contained in a concentration of at most 50 percent by weight, and it satisfies the equation: $1n\ y > 0.042x + 1.0$, in which y is the cloud point (degrees centigrade) of a 30 percent by weight aqueous solution of the partially hydrolyzed vinyl ester resin, and x is the degree of hydrolysis (percent by mole) of the partially hydrolyzed vinyl ester resin.

Classifications:

International (IPC 8-9): C08F2/20 C08F8/12 C08L29/04 (Advanced/Invention);
C08F2/12 C08F8/00 C08L29/00 (Core/Invention)

International (IPC 1-7): C08F16/06 C08F220/26 C08F220/38 C08F8/12 C08L29/04

CPC: C08F2800/10 C08J5/18 C08L29/04 C08F2/20 C08F8/12

European: C08F2/20 C08F8/12 C08L29/04

US: 524/557 524/558 524/563 524/564 524/803 524/832

Family:

Publication number	Publication date	Application number	Application date
DE69729746 D1	20040805	DE19976029746	19970401
DE69729746 T2	20050714	DE19976029746T	19970401
EP0978538 A1	20000209	EP19970908563	19970401
EP0978538 A4	20010530	EP19970908563	19970401
EP0978538 B1	20040630	EP19970908563	19970401
US6573327 BA	20030603	US19990402111	19990929
WO9844044 A1	19981008	WO1997JP01118	19970401

Priority:

WO1997JP01118 19970401

Probable Assignee: NIPPON GOHSEI KAGAKU KOGYO KK

Assignee(s): (std): NIPPON SYNTHETIC CHEM IND ; SHIBUTANI MITSUO

Assignee(s): NIPPON GOHSEI KAGAKU KOGYO K K ; NIPPON GOHSEI KAGAKU KOGYO K K OSAKA ; NIPPON GOHSEI KAGAKU KOGYO KABUSHIKI KAISHA ; NIPPON GOHSEI KAGAKU KOGYO KK

Inventor(s): (std): SHIBUTANI MITSUO

Designated states: DE FR GB IT US

Title: POLYMER COATED METAL OXIDE FINE PARTICLES AND THEIR APPLICATIONS

Abstract: Source: US2007298259A [EN] The present invention provides polymer-coated metal oxide fine particles, including metal oxide fine particles having a number-average particle diameter of not smaller than 1 nm and not greater than 100 nm, a surface of each of the metal oxide fine particles being coated with a polymer; and the present invention further provides, as their applications, for example, an aqueous dispersion of polymer-coated metal oxide fine particles and a **process** for their production, coating compositions, resin compositions, and resin formed articles.

Classifications:

International (IPC 8-9): B01F3/12 B32B15/08 C08F2/44 C08F292/00 C08K9/04 C08K9/10 C08L101/00 C09C1/00 C09C1/04 C09C3/10 C09C3/12 C09D17/00 C09D201/00 C09D5/16 C09D7/12 (Advanced/Invention);

B01F3/12 B32B15/08 C08F292/00 C08K9/00 C08L101/00 C09C1/04 C09C3/10 C09C3/12 C09D17/00 C09D201/00 C09D7/12 (Core/Invention)

CPC: Y10T428/2998 B01J13/18 B82Y30/00 C01G9/02 C01P2002/50 C01P2004/64 C09C1/043 C09C3/10

European: B01J13/18 B82Y30/00 C01G9/02 C09C1/04B C09C3/10 M01P2/50 M01P4/64

US: 106/287.1 106/287.100 252/363.5 252/363.500 428/407 523/205

Family:

Publication number	Publication date	Application number	Application date
JP2007145285 A1	20091112	JP20080521252T	20070614
JP5241492 B1	20130717	JP20080521252T	20070614
JP5241492 B2	20130717	JP20080521252T	20070614
US2007298259 AA	20071227	US20070812163	20070615
WO07145285 A1	20071221	WO2007JP62025	20070614

Priority:

JP20060167851 20060616 JP20060167874 20060616 WO2007JP62025 20070614
JP20080521252 20070614

Probable Assignee: NIPPON SHOKUBAI CO LTD

Assignee(s): (std): MATSUMOTO TAKESHI ; NIPPON CATALYTIC CHEM IND

Assignee(s): NIPPON SHOKUBAI CO ; NIPPON SHOKUBAI CO LTD

Inventor(s): (std): MATSUMOTO TAKESHI

Agent(s): WENDEROTH LIND AND PONACK LLP

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 LK LR LS LT LU LV LY MA MC MD 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: ALDIMINES AND KETIMINES AS INITIATORS IN HARDENER SYSTEMS AND CORRESPONDING RESIN COMPOSITIONS FOR USES INCLUDING FIXING TECHNOLOGY

Abstract: Hardener system for a synthetic resin composition comprising free-radically polymerizable compounds, including the following constituents: a) at least one activator in the form of a metal salt and, as free-radical initiator b1) (i) at least one aldehyde and/or ketone and at least one primary amine, and/or b2) (ii) at least one aldimine or (iii) at least one ketimine, or a mixture of two or more of constituents (i) to (iii), and also synthetic resin compositions comprising such a hardener system for uses principally in fixing technology, and subjects of the invention associated therewith.

Classifications:

International (IPC 8-9): C08F220/20 C08F220/28 C08F220/34 C08F222/10 C08F222/14 C08F222/20 C08F4/10 C08F4/20 C08F4/26 C08F4/40 (Advanced/Invention)

CPC: C08F4/10 C08F4/20 C08F4/26 C08F4/40 C04B26/04 C04B26/06 C04B26/14 C04B26/16 C04B2111/00715

Family:

Publication number	Publication date	Application number	Application date
■ CN107787337 A	20180309	CN201680036780	20160603
■ DE102015118134 A1	20170427	DE201510118134	20151023
■ WO16206777 A1	20161229	WO2016EP00927	20160603

Priority:

DE201510110283 20150626 DE201510118134 20151023 WO2016EP00927 20160603

Probable Assignee: FISCHERWERKE GMBH AND CO KG

Assignee(s): (std): FISCHERWERKE GMBH AND CO KG ; FISHERWERKE GMBH AND CO KG

Inventor(s): (std): GRUEN JUERGEN ; SCHLENK CHRISTIAN ; STEURER PAUL ; VOGEL MARTIN ; WEINELT CHRISTIAN

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 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