

Search history

Search 1: SFT=((bottle w5 wash*) and acid and (alkaline or caustic) and (non-ionic OR nonionic) and (detergent* or clean*)) and PD<20150507 (Results 434)

Search 2: SFT=((acid w5 (detergent or clean*) and (etch* w5 (glass or plastic or PET)) and bottle) and PD<20150507 (Results 27)

1) Family number: 48203251 (US2011017945A)

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Title: NOVEL FORMULATION OF A WARE WASHING SOLID CONTROLLING HARDNESS

Abstract: A water hardness controlling agent includes an acrylate polymer having a molecular weight of about 4,500 g/mol, an acrylate-maleic copolymer having a molecular weight of about 40,000 g/mol and a 2-phosphonobutane-1,2,4-tricarboxylic acid. A ratio of acrylate-maleic copolymer to acrylate polymer to the 2-phosphonobutane-1,2,4-tricarboxylic acid in parts per million is about 5-30:10-40:6-20.

Classifications:

International (IPC 8-9): B08B3/08 C02F5/02 C02F5/10 C02F5/14 C11D3/04 C11D3/10 C11D3/36 C11D3/37 C11D3/60 (Advanced/Invention)

CPC: C11D3/3761 C02F2305/04 C11D3/361 C02F1/66 C11D3/044 C11D3/10 C11D3/3757 C11D3/365 C02F5/14 B08B3/08 C02F5/10 C02F5/145

European: C02F5/14 C11D3/04H C11D3/10 C11D3/36B C11D3/36E C11D3/37C6 C11D3/37C6B M02F1/66 M02F305/04

US: 252/175 252/180 252/180P 252/180S 510/218 510/218S 510/219 510/436 510/469

JP F-Term: 4H003 4H003/AC23 4H003/DA17 4H003/DA19 4H003/EA12 4H003/EA16 4H003/EB24 4H003/EB30 4H003/EB32 4H003/FA07

JP F-Index: C11D3/36 C11D3/37

Family:

Publication number	Publication date	Application number	Application date
AU2010277195 AA	20110203	AU20100277195	20100727
AU2010277195 BB	20150305	AU20100277195	20100727
CA2767308 AA	20110203	CA20102767308	20100727
CA2767308 C	20180102	CA20102767308	20100727
CN102482620 A	20120530	CN201080033235	20100727
CN107012023 A	20170804	CN201710350067	20100727
DE602010051002 D1	20180628	DE201060051002T	20100727
EP2459692 A2	20120606	EP20100803991	20100727
EP2459692 A4	20130717	EP20100803991	20100727
EP2459692 B1	20180530	EP20100803991	20100727
JP2013500377 T2	20130107	JP20120522322T	20100727
JP5715130 B2	20150507	JP20120522322T	20100727
MX2012000808 A1	20120314	MX20120000808	20100727
US2011017945 AA	20110127	US20090510035	20090727
US2011021403 AA	20110127	US20100843999	20100727
US2011021410 AA	20110127	US20100730998	20100324
US2015018265 AA	20150115	US20140493593	20140923
US8883035 BB	20141111	US20100843999	20100727
US9845448 BB	20171219	US20140493593	20140923
WO11013070 A2	20110203	WO20101B53415	20100727
WO11013070 A3	20110526	WO20101B53415	20100727

Priority:

US20090510035 20090727 US20100730998 20100324 CN201080033235 20100727
EP20100803991 20100727 US20100843999 20100727 WO20101B53415 20100727
US20140493593 20140923

Probable Assignee: ECOLAB USA INC

Assignee(s): (std): ECOLAB INC ; ECOLAB USA INC ; MIRALLES ALTONY J ; SILVERNAIL CARTER M

Assignee(s): ECOLAB USA INC ST PAUL

Inventor(s): (std): SILVERNAIL CARTER ; MIRALLES ALTONY ; CARTER SILVERNAIL ; SILVERNAIL CARTER M ; MIRALLES ALTONY J

Inventor(s): ALTONY J MIRALLES ; CARTER M SILVERNAIL

Agent(s): SPRUSON AND FERGUSON; CASSAN MACLEAN; CASSAN MACLEAN IP AGENCY INC; POLYPATENT; GODMEYER BLUM LENZE PATENTANWAELTE PARTNERSCHAFT MBB WERKPATENT; AOKI ATSUSHI; KOGA TETSUJI; ISHIDA TAKASHI; ECOLAB USA INC; MCKEE VOORHEES AND SEASE; MCKEE VOORHEES AND SEASE PLC; SORENSSEN ANDREW D

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: WAREWASHING COMPOSITION FOR USE IN AUTOMATIC DISHWASHING MACHINES, AND METHOD FOR USING

Abstract: A warewashing detergent composition is provided according to the invention. The warewashing detergent composition includes a cleaning agent, an alkaline source, and a corrosion inhibitor. The cleaning agent comprises a detergent amount of a surfactant. The alkaline source is provided in an amount effective to provide a use composition having a pH of at least about 8. The corrosion inhibitor includes a source of aluminum ion and at least one of a source of calcium ion or a source of magnesium ion. The amounts of calcium ion or magnesium ion can be selected depending upon the hardness of the water of dilution. Methods for using a warewashing detergent composition are provided.

Classifications:

International (IPC 8-9): A47L15/00 B08B3/08 B08B9/28 B60S3/04 C11D1/04 C11D17/00 C11D3/02 C11D3/04 C11D3/06 C11D3/08 C11D3/10 C11D3/20 C11D3/39 C11D7/10 C23G1/06 (Advanced/Invention); A47L15/00 B08B3/08 B08B9/20 B60S3/04 C11D1/02 C11D3/02 C11D3/04 C11D3/06 C11D3/08 C11D3/20 C11D3/39 C11D7/02 C23G1/02 (Core/Invention)

CPC: C11D17/003 C11D3/0073 C11D3/046 C11D3/0084

European: C11D3/00B15 C11D3/04S

US: 134/18 134/18P 510/220 510/224 510/225 510/227 510/233 510/267 510/445 510/446 510/485 510/508 510/514
JP F-Term: 3B082 3B201 3B201/AA46 3B201/AB01 3B201/BB21 3B201/BB82 3B201/BB92 3D026 3D026/AA15 4H003 4H003/AB03 4H003/AB45 4H003/BA01 4H003/BA09 4H003/BA10 4H003/BA17 4H003/DA05 4H003/DA19 4H003/EA05 4H003/EA08 4H003/EA12 4H003/EA14 4H003/EA15 4H003/EA18 4H003/EA19 4H003/EA21 4H003/EA28 4H003/EB07 4H003/EB08 4H003/EB24 4H003/EC01 4H003/ED02 4H003/EE05 4H003/FA12 4H003/FA15 4H003/FA26 4H003/FA28
JP F-Index: A47L15/00 A47L15/00/Z B08B3/08/Z B60S3/04 C11D1/04 C11D3/04 C11D3/06 C11D3/08 C11D3/10 C11D3/20 C11D3/39

Family:

Publication number	Publication date	Application number	Application date
AU2007277255 AA	20080131	AU20070277255	20070720
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CN101490228 B	20121114	CN200780025805	20070720
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EP2066774 B1	20160504	EP20070796963	20070720
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JP5563297 B2	20140730	JP20090521777T	20070720
MX2008016158 A1	20090120	MX20080016158	20070720
US2008020960 AA	20080124	US20060491784	20060724
US2010242997 AA	20100930	US20100796237	20100608
US7759299 BB	20100720	US20060491784	20060724
US7858574 BB	20101228	US20100796237	20100608
WO08013746 A1	20080131	WO2007US16455	20070720

Priority:

US20060491784 20060724 EP20070796963 20070720 WO2007US16455 20070720
 US20100796237 20100608

Probable Assignee: ECOLAB USA INC

Assignee(s): (std): BARTELME MICHAEL J ; ECOLAB INC ; ECOLAB USA INC ; OLSON KEITH E ; SMITH KIM R

Assignee(s): ECOLAB INC ST PAUL

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Agent(s): SPRUSON AND FERGUSON; CASSAN MACLEAN; CASSAN MACLEAN IP AGENCY INC; GODEMEYER BLUM LENZE PATENTANWALTE PARTNERSCHAFT MBB; GODEMEYER BLUM LENZE PATENTANWALTE PARTNERSCHAFT MBB WERKPATENT; ARIAS JUAN; AOKI ATSUSHI; ISHIDA TAKASHI; KOGA TETSUJI; KAGAN BINDER PLLC; ECOLAB USA INC; ANDREW D; LAURA C; AMY J; SORENSEN ANDREW D

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

Title: HIGHLY CONCENTRATED CAUSTIC BLOCK FOR WARE WASHING

Abstract: A system for cleaning ware includes a detergent composition and a rinse solution. The detergent composition includes an alkali metal hydroxide, a corrosion inhibitor and a surfactant. The detergent includes less than about 1 percent of an alkali metal carbonate by weight. The rinse solution includes water and a chelating acid.

Classifications:

International (IPC 8-9): B08B3/00 B08B9/20 C11D1/00 C11D17/00 C11D17/06 C11D17/08 C11D3/00 C11D3/02 C11D3/04 C11D3/20 C11D3/30 C11D3/39 C11D3/60 C11D7/06 (Advanced/Invention)

CPC: C11D3/044 C11D3/0073 C11D3/2082 C11D3/2086 C11D3/33 C11D17/0052

European: C11D17/00H2 C11D3/00B15 C11D3/04H C11D3/20E3 C11D3/20E5 C11D3/33

US: 314/25.2 314/95.1 510/108 510/108S 510/220 510/225 510/477 510/490 510/490S 510/509 510/509S

JP F-Term: 4H003 4H003/AC23 4H003/BA12 4H003/DA01 4H003/DA05 4H003/DA09 4H003/DA11 4H003/DA19 4H003/DA20 4H003/DC02 4H003/EA08 4H003/EA16 4H003/EA17 4H003/EA21 4H003/EB08 4H003/ED02 4H003/FA07 4H003/FA21

JP F-Index: C11D17/06 C11D17/08 C11D3/20

Family:

Publication number	Publication date	Application number	Application date
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AU2011249512 AA	20111110	AU20110249512	20110429
AU2011249512 BB	20150129	AU20110249512	20110429
BR112012027444 A2	20160719	BR20121127444	20110429
CA2794441 AA	20120925	CA20112794441	20110429
CA2794441 C	20180417	CA20112794441	20110429
CN102892874 A	20130123	CN201180022059	20110429
CN107418782 A	20171201	CN201710375966	20110429
EP2566942 A2	20130313	EP20110777343	20110429
EP2566942 A4	20141224	EP20110777343	20110429
JP2013528679 T2	20130711	JP20130508598T	20110429
MX2012012660 A1	20121217	MX20120012660	20110429
US2011269662 AA	20111103	US20100772402	20100503
US8802611 BB	20140812	US20100772402	20100503
WO11138719 A2	20111110	WO20111B51910	20110429
WO11138719 A3	20120426	WO20111B51910	20110429

Priority:

US20100772402 20100503 CN201180022059 20110429 WO20111B51910 20110429

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Inventor(s): (std): MIRALLES ALTONY

Inventor(s): ALTONY MIRALLES

Agent(s): SPRUSON AND FERGUSON; CASSAN MACLEAN; CASSAN MACLEAN IP AGENCY INC; BORDEN LADNER GERVAIS LLP; Polypatent; AOKI ATSUSHI; KOGA TETSUJI; ISHIDA TAKASHI; AMY J; SORENSEN ANDREW D

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

4) Family number: 54077229 (US2013146102A)

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Title: CONCENTRATED WAREWASHING COMPOSITIONS AND METHODS

Abstract: The invention generally relates to concentrated warewashing compositions and methods of using the same. In some aspects, the invention uses concentrated compositions in methods of warewashing where the concentrate is applied directly to the article to be cleaned, rather than dispensed into a sump and applied to the article as a ready-to-use composition. In additional aspects, the methods of using highly concentrated alkaline and/or acid compositions in an alternating pattern of alkaline-acid-alkaline or acid-alkaline-acid, or the like, provide substantially similar or superior cleaning efficacy while reducing the overall consumption of the alkaline and/or acid compositions.

Classifications:

International (IPC 8-9): A47L15/00 A47L15/44 B08B3/02 B08B3/08 B08B9/093 B08B9/20 C11D1/02 C11D1/38 C11D11/00 C11D17/00 C11D3/00 C11D3/04 C11D3/08 C11D3/10 C11D3/20 C11D3/32 C11D3/34 C11D7/00 C11D7/06 C11D7/08 C11D7/26 C11D7/32 (Advanced/Invention); C11D11/00 (Advanced/Non-invention)

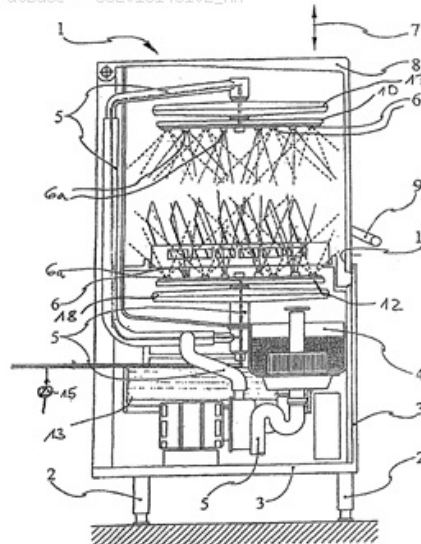
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US: 1/1 134/28

JP F-Term: 3B082 3B082/CC05 3B201 4H003 4H003/BA13 4H003/BA20 4H003/DA19 4H003/DC02 4H003/EA06 4H003/EA12 4H003/EA15 4H003/EA16 4H003/EA21 4H003/EB08 4H003/EB18 4H003/EB22 4H003/FA04 4H003/FA23 4H003/FA28

JP F-Index: A47L15/44 B08B3/08/A C11D17/00 C11D3/04 C11D3/08 C11D3/10 C11D3/20 C11D3/34 C11D7/06 C11D7/08 C11D7/26

PatBase - US2013146102_AA



Family:

Publication number	Publication date	Application number	Application date
AU2012351758 AA	20130620	AU20120351758	20120518
AU2012351758 BB	20160317	AU20120351758	20120518
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BR112014014222 A8	20170627	BR20141114222	20120518
BR112014014222 A8	20170613	BR20141114222	20120518
CA2857277 AA	20140528	CA20122857277	20120518
CA2857277 C	20161025	CA20122857277	20120518
CN103998590 A	20140820	CN201280061540	20120518
CN103998590 B	20190201	CN201280061540	20120518
DE602012038251 D1	20171116	DE201260038251T	20120518
EP2791301 A1	20141022	EP20120856858	20120518
EP2791301 A4	20160113	EP20120856858	20120518

EP2791301 B1	20171004	EP20120856858	20120518
EP3282004 A1	20180214	EP20170187762	20120518
ES2643844 T3	20171124	ES20120856858T	20120518
JP2015501871 T2	20150119	JP20140546675T	20120518
JP6014163 B2	20161025	JP20140546675T	20120518
US2013146102 AA	20130613	US20120474780	20120518
US9139800 BB	20150922	US20120474780	20120518
WO13088266 A1	20130620	WO20121B52521	20120518

Priority:

US20110569898P 20111213 EP20120856858 20120518 US20120474780 20120518
WO20121B52521 20120518

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Agent(s): SPRUSON AND FERGUSON; BORDEN LADNER GERVAIS LLP; GODEMEYER BLUM LENZE
PATENTANWAELTE PARTNERSCHAFT MBB; GODEMEYER BLUM LENZE WERKPATENT; GODEMEYER BLUM LENZE PATENTANWAELTE PARTNERSCHAFT MBB WERKPATENT; ELZABURU SLP ELZABURU SLP; AOKI ATUSHI; KOGA TETSUJI; ISHIDA TAKASHI; MCKEE VOORHEES AND SEASE PLC; SORENSEN ANDREW D

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

5) Family number: 32093341 (US2004173244A)

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Title: CLEANING METHOD FOR REMOVING STARCH

Abstract: The described cleaning process comprises an alkaline and an acid cleaning step as well as one or more additional alkaline and/or acid cleaning steps, in particular for the mechanical cleaning of crockery in commercial dishwashers, in which primarily deposits of starch can be removed exceptionally well.

Classifications:

International (ipc 8-9): A47L15/00 A47L15/16 A47L15/42 A47L15/44 B08B3/00 B08B3/02 B08B3/04 B08B3/08 B08B7/00 B08B7/04 B08B9/20 C11D11/00 C11D17/00 C11D17/04 C11D3/00 C11D3/02 C11D3/04 C11D3/20 C11D7/00 C11D7/06 C11D7/08 C11D7/26 C11D7/34 C11D7/36 (Advanced/Invention); A47L15/42 B08B3/08 C11D11/00 C11D17/00 C11D3/02 C11D3/20 C11D7/02 C11D7/22 (Core/Invention)

International (ipc 1-7): A47L15/00 B08B3/00 B08B3/02 B08B3/04 B08B3/08 B08B7/00 C11D11/00 C11D17/00 C11D3/00 C11D3/02 C11D3/2 C11D3/20 C11D3/36 C11D7/00 C11D7/06 C11D7/08 C11D7/26 C11D7/34 C11D7/36

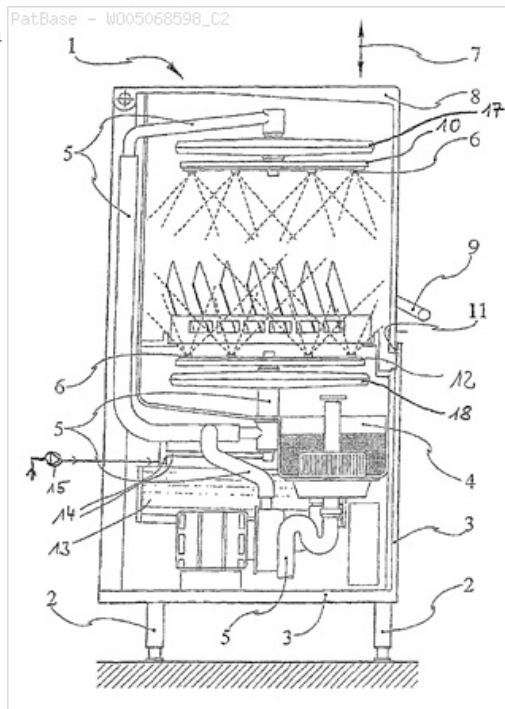
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European: A47L15/00A C11D11/00B2D C11D11/00B8 C11D17/00H8T8 C11D17/04B2 C11D3/04A C11D3/04H C11D3/20E C11D7/06 C11D7/08 C11D7/26E C11D7/34 C11D7/36 K47L15/00E4 K47L15/00E6 K47L601/20

US: 134/25.1 134/25.2 134/25.200P 134/26 134/27 134/27S 134/28 134/28S 134/29 134/29S 134/30 134/34 134/56D 134/57D 134/58 134/58.00DS 134/58D 134/99.2

JP F-Term: 3B082 3B082/BD01 3B201 3B201/AA46 3B201/BB11 3B201/BB22 3B201/BB82 3B201/BB96 3B201/CB01 3B201/CC01 4H003 4H003/BA12 4H003/DA19 4H003/DB01 4H003/DC02 4H003/EA03 4H003/EA04 4H003/EA21 4H003/EB07 4H003/EB08 4H003/EB22 4H003/EB24 4H003/EB30 4H003/ED02 4H003/FA28

JP F-Index: A47L15/00/Z A47L15/42/D B08B3/08/Z C11D17/00 C11D7/06 C11D7/08 C11D7/26 C11D7/34 C11D7/36



Family:

Publication number	Publication date	Application number	Application date
AT277157 E	20041015	AT20020743135T	20020531
AT362807 E	20070615	AT20030772309T	20031106
AU2003279362 AA	20040630	AU20030279362	20031106
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US2011308553 AA	20111222	US20110096151	20110520
US2012291820 AA	20121122	US20120527487	20120619
US8092613 BB	20120110	US20030740371	20031218
US8709167 BB	20140429	US20110096151	20110520
US8882932 BB	20141111	US20120527487	20120619
WO02100993 A1	20021219	WO2002EP05964	20020531
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WO05068598 A1	20050728	WO2004US34477	20041018
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Priority:

DE20011027919	20010608	DE20025001125	20020531	WO2002EP05964	20020531
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WO2003EP12366	20031106	WO2003EP12923	20031119	US20030740371	20031218
US20110096151	20110520	US20120527487	20120619		

Probable Assignee: ECOLAB USA INC

Assignee(s): (std): STROTHOFF WERNER ; TROLL WINFRIED ; MAIER HELMUT ; FURBER JOHN ; MASER BRYAN ; FAUBEL HEIKO ; MASER BRYAN A ; FURBER JOHN P ; ECOLAB USA INC ; BESSE MICHAEL ; BESSE MICHAEL E ; ECOLAB GMBH AND CO OHG ; ECOLAB INC

Assignee(s): ECOLAB INC ST PAUL

Inventor(s): (std): BESSE MICHAEL ; FURBER JOHN ; HEIKO FAUBEL ; HELMUT MAIER ; MAIER HELMUT ; MASER BRYAN ; STROTHOFF WERNER ; TROLL WINFRIED ; WERNER STROTHOFF ; WINFRIED TROLL ; MASER BRYAN A ; FURBER JOHN P ; BESSE MICHAEL E ; FAUBEL HEIKO

Agent(s): GRIFFITH HACK ; CASSAN MACLEAN ; CASSAN MACLEAN IP AGENCY INC ; GODEMEYER BLUM LENZE PATENTANWAELTE PARTNERSCHAFT MBB WERKPATENT ; AOKI ATSUSHI ; ISHIDA TAKASHI ; KOGA TETSUJI ; NISHIYAMA MASAYA ; 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 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

6) Family number: 34109661 (US2008199618A)

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Title: METHOD OF STRENGTHENING A BRITTLE OXIDE SUBSTRATE WITH A WEATHERABLE COATING

Abstract: The present invention relates to a method of strengthening brittle oxide pieces such as glass pieces with a siloxane-acrylate coating system that has superior weatherability, particularly hydrolytic stability. The coating system comprises a combination of a silane solution and a radiation-curable acrylate solution. The mixture is applied to a clean, brittle oxide surface. The silane solution comprises one or more silanes in a non-aqueous solvent and the radiation-curable acrylate solution comprises one or more acrylate or methacrylate monomers, acrylate or methacrylate oligomers, and initiators, such as photoinitiators.

Classifications:

International (IPC 8-9): B05D3/00 B05D7/14 B32B27/30 C03C15/00 C03C17/00 C03C17/30 C03C17/32 C03C17/34 C03C23/00 C08F2/46 C08J3/24 C08K5/54 C08L33/04 C08L33/14 C08L43/04 C09D4/02 C09D5/00 C09D7/12 (Advanced/Invention); B05D3/00 B05D7/14 C03C17/28 C08F2/46 C09D4/02 C09D5/00 C09D7/12 (Core/Invention)

CPC: C03C17/007 C03C17/30 C03C2217/475 C03C2217/478 C03C2218/114 C03C2218/31

European: C03C17/00D2 C03C17/30 M03C217/475 M03C217/478 M03C218/114 M03C218/310

US: 427/299 427/299P 522/182 522/182S 522/65 522/65S

JP F-Term: 4G059 4G059/AA01 4G059/AA04 4G059/AC03 4G059/AC16 4G059/FA22 4G059/FA30 4G059/FB05 4J038 4J038/DL03/2 4J038/FA11/1 4J038/JC30 4J038/JC32 4J038/KA03 4J038/KA06 4J038/PA17 4J038/PA19 4J038/PC03 4F100 4F100/AA01/A 4F100/AG00/B 4F100/AH02/A 4F100/AH03/A 4F100/AH06/A 4F100/AK25/A 4F100/BA02 4F100/CA02/A 4F100/CA05/A 4F100/CA30/A 4F100/DE01/A 4F100/JB07 4F100/JB14/A 4G059/AC18 4G059/FA15

JP F-Index: C03C15/00/Z C03C17/30/A C03C23/00/A C09D4/02 C09D5/00/Z C09D7/12 B32B27/30/A C03C17/32/A

Figure 1

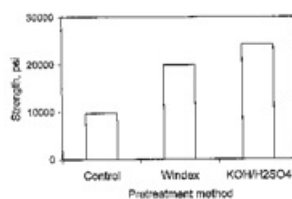


Figure 2

**Family:**

Publication number	Publication date	Application number	Application date
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JP2013212986 A2	20131017	JP20130143737	20130709
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JP5792229 B2	20151007	JP20130143737	20130709
US2008199618 AA	20080821	US20060994524	20060628
WO07008426 A2	20070118	WO2006US25250	20060628
WO07008426 A3	20090423	WO2006US25250	20060628

Priority:

US20050697136P 20050707 JP20080520280 20060628 US20060994524 20060628
 WO2006US25250 20060628

Probable Assignee: ARKEMA SA

Assignee(s): (std): ARKEMA INC ; ARKEMA SA ; BOURREL MAURICE ; BRUCE GERZ LINDA ; CHABAGNO JEAN MICHEL ; CULP THOMAS D ; SILVERMAN GARY S ; UHM HAEWON ; WEN MEI

Inventor(s): (std): WEN MEI ; UHM HAEWON ; SILVERMAN GARY S ; CULP THOMAS D ; CHABAGNO JEAN MICHEL ; BRUCE GERZ LINDA ; BOURREL MAURICE

Agent(s): BORDEN LADNER GERVAIS LLP; LHOSTE CATHERINE; ARKEMA INC PATENT DEPARTMENT 26TH FLOOR; BOYD STEVEN D ET AL

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX 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 SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

7) Family number: 33062265 (US2007009421A)

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Title: FIBERS COMPRISED OF EPITAXIALLY GROWN SINGLE-WALL CARBON NANOTUBES, AND A METHOD FOR ADDED CATALYST AND CONTINUOUS GROWTH AT THE TIP

Abstract: The present invention is directed to fibers of epitaxially grown single-wall carbon nanotubes (SWNTs) and methods of making same. Such methods generally comprise the steps of: (a) providing a spun SWNT fiber; (b) cutting the fiber substantially perpendicular to the fiber axis to yield a cut fiber; (c) etching the cut fiber at its end with a plasma to yield an etched cut fiber; (d) depositing metal catalyst on the etched cut fiber end to form a continuous SWNT fiber precursor; and (e) introducing feedstock gases under SWNT growth conditions to grow the continuous SWNT fiber precursor into a continuous SWNT fiber.

Classifications:

International (IPC 8-9): B82B3/00 D01F9/12

D01F9/127 (Advanced/Invention);

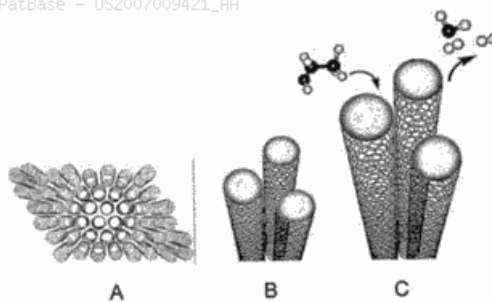
B82B3/00 D01F9/12 (Core/Invention)

CPC: Y10S977/843 Y10S977/848 B82Y30/00 D01F9/127

European: B82Y30/00 D01F9/127

US: 423/447.3 423/447.300P 427/249.4 977/843 977/843S 977/848

PatBase - US2007009421_AA



Family:

Publication number	Publication date	Application number	Application date
US2007009421 AA	20070111	US20050291449	20051201
US7727504 BB	20100601	US20050291449	20051201
WO06060476 A2	20060608	WO2005US43315	20051201
WO06060476 A3	20060720	WO2005US43315	20051201

Priority:

US20040632205P 20041201 US20050291449 20051201

Probable Assignee: UNIV RICE WILLIAM M**Assignee(s):** (std): HAUGE ROBERT H ; KIM MYUNG JONG ; KITTRELL W CARTER ; UNIV RICE WILLIAM M ; MORIN MAREK IRENE ; WANG YUHUANG**Assignee(s):** WILLIAM MARSH RICE UNIVERSITY ; WILLIAM MARSH RICE UNIV ; KITTRELL W**Inventor(s):** (std): KIM MYUNG J ; KITTRELL W C ; MAREK IRENE M ; WANG YUHUANG ; SMALLEY RICHARD E ; KITTRELL W CARTER ; KIM MYUNG JONG ; HAUGE ROBERT H**Inventor(s):** HAUGE ROBERT ; KIM MYUNG ; KITTRELL W ; SMALLEY RICHARD ; MAREK LEGAL REPRESENTATIVE IRENE MORIN ; MAREK IRENE ; MAREK IRENE MORIN**Agent(s):** ROSS SPENCER GARSSON WINSTEAD SECHREST AND MINICK PC; WINSTEAD 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**8) Family number: 30509377** (US2002001546A)

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Title: METHODS FOR SCREENING SUBSTANCES IN A MICROWELL ARRAY

Abstract: Methods for manufacturing and using an apparatus for manipulating and analyzing a large number of microscopic samples of a liquid or materials, including cells, in liquid suspension. Parallel through-holes are formed in a platen and loaded with a liquid. Loading may be performed in such a way as to create a gradient, with respect to the position of the through-holes, of the concentration of a particular substance or of another quantity. Mixing of the contents of through-holes may be obtained by bringing filled microwell arrays into contact with each other with registration of individual through-holes.

Classifications:

International (ipc 8-9): B01D61/00 B01D71/20 B01F13/00 B01J19/00 B01J4/02 B01L11/00 B01L3/00 B01L3/02 B01L99/00 B05D1/36 B23K26/38 B81B1/00 B81C99/00 C08J7/04 C12M1/00 C12M1/14 C12M1/32 C12M1/34 C12N15/09 C12N5/00 C12N5/02 C12N5/06 C12Q1/02 C12Q1/34 C12Q1/68 C40B30/00 C40B30/04 C40B40/00 C40B50/00 C40B60/00 C40B60/10 C40B60/12 C40B60/14 C40B70/00 C40B99/00 G01N1/00 G01N1/10 G01N1/36 G01N21/01 G01N21/03 G01N21/75 G01N21/78 G01N30/46 G01N30/60 G01N30/82 G01N33/483 G01N33/53 G01N35/00 G01N35/02 G01N35/10 G01N37/00 (Advanced/Invention); B01J19/00 B01L3/00 B81B1/00 C40B60/12 C40B60/14 C40B70/00 G01N21/01 G01N21/03 G01N30/60 G01N30/82 G01N30/84 G01N33/483 G01N35/00 G01N35/10 G01N37/00 (Advanced/Non-invention)

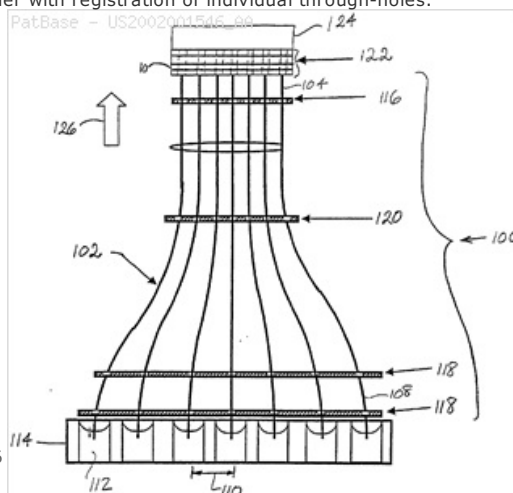
International (ipc 1-7): B01D61/00 B01D71/20 B01J19/00 B01J4/02 B01L3/00 B05D3/00 B21D33/00 B21D39/00 B32B1/00 B65B1/04 C12M1/00 C12M1/34 C12M1/36 C12N15/09 C12N5/02 C12Q1/02 C12Q1/68 C12Q1/70 C23C16/24 C25B3/00 G01N1/10 G01N21/00 G01N21/01 G01N21/03 G01N21/78 G01N33/483 G01N33/53 G01N35/00 G01N35/02 G01N35/10 G01N37/00

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US: 1/1 141/31 141/31S 204/451 204/451S 219/121.71 219/121.710S 264/242 264/242S 29/17.2 29/17.200S 29/522.1 29/522.100S 356/244 356/246 359/626 359/626S 362/355 422/100 422/100S 422/102 422/102P 422/408 422/412 422/500 422/501 422/501S 422/509 422/515 422/519 422/519S 422/520 422/520S 422/521 422/547 422/552 422/56 422/58 422/63 422/67 422/82.05 422/82.050P 422/82.09 427/2.11 427/2.110S 427/240 427/240S 427/255.18 427/255.180S 427/402 427/402S 435/283.1 435/286.1 435/287.1 435/287.100P 435/287.2 435/287.200S 435/288.2 435/29 435/29S 435/305.2 435/305.200S 435/325 435/325S 435/410 435/420 435/5 435/5S 435/6 435/6.14 435/6.140P 435/6.140S 435/6P 435/6S 435/7.1 435/7.100P 435/7.100S 436/164 436/164P 436/165 436/166 436/171 436/172 436/174 436/174S 436/179 436/18 436/180 436/180S 436/183 436/43 436/46 506/11 506/12 506/13 506/13P 506/14 506/14S 506/23 506/23S 506/37 506/38 506/38P 506/39 506/39S 506/40 506/40P 506/40S 506/7 506/7P 506/9 506/9S 83/3 83/30 83/30S

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Family:

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EP1051259 A1	20001115	EP19990901294	19990105
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EP1330306 A2	20030730	EP20010977713	20011010
EP1385628 A2	20040204	EP20020769364	20020507
EP1714699 A1	20061025	EP20060075151	19990105
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EP2286918 A1	20110223	EP20100008511	19990105
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JP2008268202 A2	20081106	JP20080103292	20080411
JP2008292478 A2	20081204	JP20080124416	20080512
JP2009080106 A2	20090416	JP20080222576	20080829
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JP2011095271 A2	20110512	JP20110003611	20110112
JP4271371 B2	20090603	JP20000527355T	19990105
JP4361271 B2	20091111	JP20020533997T	20011010
JP4448166 B2	20100407	JP20070326956	20071219
JP4607202 B2	20110105	JP20080103292	20080411
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JP4741042 B2	20110803	JP20020587105T	20020507
JP4859071 B2	20120118	JP20080222576	20080829
JP5103536 B2	20121219	JP20110003611	20110112
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US2002094533 AA	20020718	US20010975496	20011010
US2003124716 AA	20030703	US20020315832	20021210
US2003180807 AA	20030925	US20020315549	20021210
US2004171166 AA	20040902	US20040796856	20040309
US2004191924 AA	20040930	US20040820679	20040408
US2005079105 AA	20050414	US20040958969	20041005
US2009258797 AA	20091015	US20090468417	20090519
US2010261159 AA	20101014	US20060503401	20060810
US2011065590 AA	20110317	US20100794353	20100604
US2011319300 AA	20111229	US20110229208	20110909
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US2015398089 AA	20151022	US20140582122	20141223
US2016332133 AA	20161117	US20160131101	20160418
US2017028376 A9	20170202	US20140582122	20141223
US2018361345 AA	20181220	US20180978523	20180514
US6387331 BA	20020514	US19990225583	19990105
US6716629 BB	20040406	US20010975496	20011010
US6743633 BA	20040601	US20000710082	20001110
US6893877 BB	20050517	US20010850123	20010507
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US9314764 BB	20160419	US20110188337	20110721
US9968903 BB	20180515	US20160131101	20160418
WO02089982 A2	20021114	WO2002US14357	20020507
WO02089982 A3	20030123	WO2002US14357	20020507
WO0230561 A2	20020418	WO2001US31770	20011010
WO0230561 A3	20030522	WO2001US31770	20011010
WO9934920 A1	19990715	WO1999US00088	19990105

Priority:

US19980071179P	19980112	US19980071179P	19980112	EP19990901294	19990105
JP20000527355	19990105	EP20060075151	19990105	EP20100008511	19990105
JP20000527355T	19990105	US19990225583	19990105	JP20070326956	19990105
WO1999US00088	19990105	WO1999US00088	19990105	US20000239538P	20001010
US20000710082	20001110	US20010268894P	20010214	US20010284710P	20010418
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WO2001US31770	20011010	US20010975496	20011010	CA20022446157	20020507
CA20022665706	20020507	JP20020587105	20020507	JP20080103292	20020507
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US20020315549	20021210	US20040796856	20040309	US20040820679	20040408
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US20090468417	20090519	US20100794353	20100604	US20110188337	20110721
US20110229208	20110909	US20130059433	20131021	US20140301325	20140610
US20140582122	20141223	US20160131101	20160418	US20180978523	20180514

Probable Assignee: LIFE TECHNOLOGIES CORP

Assignee(s): (std): BRENNAN COLIN J H ; HESS ROBERT A ; LINTON JOHN ; KANIGAN TANYA S ; LINTON JOHN DUDLEY ; BIOTROVE INC ; BIOTROVE INC A DELAWARE CORP ; BRENNAN COLIN ; HESS ROBERT ; HUNTER IAN W ; LIFE TECHNOLOGIES CORP ; HUNTER IAN ; LIFE TECH CORP ; MASSACHUSETTS INST TECHNOLOGY ; OZBAL CAN ; MASSACHUSETTS INST OF TECHNOL

Assignee(s): MASSACHUSETTS INST OF TECHNOLOGY CAMBRIDGE ; MASSACHUSETTS INST OF TECHNOL MIT ; MASSACHUSETTS INST OF TECHNOLOGY CAMBRIDGE ; MASSACHUSETTS INST OF TECHNOLOGY ; MASSACHUSETTS INST TECHNOLOGY ; MASSACHUSETTS INST OF TECHNOLOGY ; BRENNAN COLIN JH ; BIOTROVE ACQUISITION CORP ; BIOTROVE CORP ; BRENNAN COLIN J ; MASSACHUSETTS INST ; MASSACHUSETTS INST OF TECHNOL ; MASSACHUSETTS INST OF TECHNOL LESS THAN MIT

Inventor(s): (std): OZBAL CAN ; LINTON JOHN DUDLEY ; LINTON JOHN ; KANIGAN TANYA S ; HUNTER W ; HUNTER IAN W ; HUNTER IAN ; HESS ROBERT A ; HESS ROBERT ; BRENNAN COLIN J H ; BRENNAN COLIN

Inventor(s): BRENNAN COLIN J ; COLIN J H BRENNAN ; CAN OZBAL ; JOHN DUDLEY LINTON ; IAN W HUNTER ; BRENNAN COLIN JH ; KANIGAN TANYA ; TANYA S KANIGAN ; ROBERT A HESS

Agent(s): GOWLING LAFLEUR HENDERSON LLP ; SMART AND BIGGAR ; HOFFMANN EITLE PATENT U RECHTSANWALTE PARTMBB ; FROUD CLIVE ; HOFFMANN EITLE ; OKADA NORIKO ; YAMASAKI YUKUZO ; AKAMATSU TOSHIKI ; SHIROGANE HIROSHI ; SUGIYAMA NAOTO ; HOSHI TAKAKO ; KAWAMOTO KAZUYA ; SHIMIZU HATSUSHI ; OSAKABE SUGURU ; BROMBERG AND SUNSTEIN LLP ; EDWARDS ANGELL PALMER AND DODGE LLP ; LANDRY BRIAN R ; ODAY CHRISTINE C ; BRIAN R ; CHRISTINE C ; STEPTOE AND JOHNSON 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 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

9) Family number: 44666928 (US2010229897A)

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Title: USE OF HYDROXYCARBOXYLATES FOR WATER HARDNESS CONTROL

Abstract: The present invention relates to compositions including threshold agents, and methods of use thereof. The threshold agents can include hydroxycarboxylate compounds present at an amount sufficient to control water hardness. The threshold agents are present in the wash solution at a molar amount less than the molar amount of water hardness ions present.

Classifications:

International (IPC 8-9): B08B3/00 C11D3/04 C11D3/20

C11D3/22 (Advanced/Invention);

C11D7/06 C11D7/26 (Advanced/Non-invention);

B08B3/00 C11D3/20 C11D3/22 (Core/Invention)

CPC: C11D3/044 C11D3/10 C11D3/2086 C11D7/06 C11D7/12

C11D7/265 C11D11/0029

European: C11D11/00B2D2 C11D3/04H C11D3/10 C11D3/20E5

C11D7/06 C11D7/12 C11D7/26E

US: 134/26 134/26P 510/180 510/180S 510/191 510/191S 510/218

510/218S 510/238 510/238S 510/361 510/361S 510/477 510/477S

510/478 510/478S 510/488

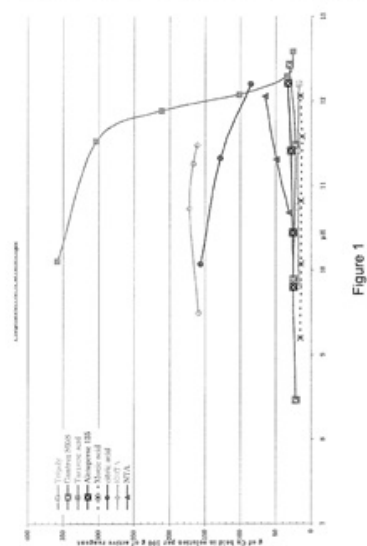


Figure 1

Family:

Publication number	Publication date	Application number	Application date
US2010229897 AA	20100916	US20090560848	20090916
US8669224 BB	20140311	US20090560848	20090916
WO10033586 A2	20100325	WO2009US57149	20090916
WO10033586 A3	20100520	WO2009US57149	20090916

Priority:

US20080097398P 20080916 US20090560848 20090916

Probable Assignee: ECOLAB INC**Assignee(s):** (std): ECOLAB INC ; ECOLAB USA INC ; MIRALLES ALTONY J ; SILVERNAIL CARTER M**Inventor(s):** (std): MIRALLES ALTONY J ; SILVERNAIL CARTER M**Agent(s):** ECOLAB USA INC; ANDREW D; AMY J; SORESENSEN ANDREW D

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

10) Family number: 30781238 (US2004157758A)

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Title: Method for cleaning and protecting siliceous surfaces using co-polymer compounds

Abstract: A method of protecting and maintaining a surface of a siliceous material includes restoring damaged portions of the surface of the siliceous material, cleaning the surface of the siliceous material, applying a reactive chemical solution to the surface of the siliceous material to cause a linking between carbon atoms in said reactive chemical solution to oxygen atoms in the siliceous material near the surface, thereby forming a continuous carbon chain to produce a hydrophobic surface having reduced surface tension, applying a protective coating to the hydrophobic surface to infill porosity of the hydrophobic surface to preclude contamination and to further decrease surface tension, and periodically cleaning the surface and re-applying said protective coating to maintain the surface.

Classifications:

International (IPC 8-9): C03C17/34 C03C23/00 C11D11/00 C11D3/20 C11D3/37 (Advanced/Invention); C11D11/00 (Core/Invention)

International (IPC 1-7): B05D1/36 C11D7/02

CPC: C03C17/3405 C03C23/0075 C03C2218/31 C11D3/2003 C11D3/373 C11D11/0023 C11D11/0052

European: C03C17/34B C03C23/00F C11D11/00B2D C11D11/00B2D10 C11D3/20B C11D3/37B12 M03C218/310

US: 427/140 427/140S 510/180 510/511 510/511S

Family:

Publication number	Publication date	Application number	Application date
US2004157758 AA	20040812	US20030359721	20030207

Priority:

US20030359721 20030207

Probable Assignee: CTEK COATINGS LLC**Assignee(s):** (std): CTEK COATINGS LLC**Inventor(s):** (std): ADICKES C FREDERICK ; AIKEN BRET W ; AIKEN JAMES D**11) Family number: 10970518 (US5766496A)**

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Title: Decapsulator and method for decapsulating plastic encapsulated device

Abstract: An apparatus and method for selectively etching an encapsulant forming a package of resinous material around an electronic device includes an etchant solution source and an etching assembly including an etch plate and a movable cover forming an etching chamber. An etch head is supported by the plate and the device package is mountable in the chamber on the etch head. A first syringe pump pumps a first quantity of etchant into the etch head and a second syringe pump agitates or oscillates at least part of the first quantity of etchant repeatedly into and out of an etched cavity formed on the package exterior surface by reaction of the etchant solution with the resinous material. A waste outlet and reservoir extends from the etch head. The etch head is attached to an alumina ceramic heat exchanger including a spirally grooved passageway formed by an inserted core to heat a small volume of etchant immediately prior to introduction of the etchant against the package and subsequent oscillation.

Classifications:

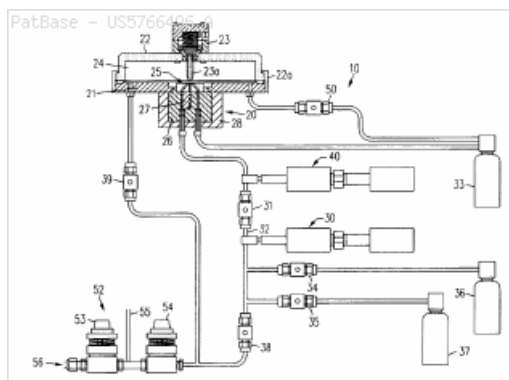
International (IPC 8-9): H01L21/00 (Advanced/Invention)

International (IPC 1-7): B44C1/22

CPC: H01L21/67075 H01L21/67126

European: H01L21/67S2D8W H01L21/67S2M

US: 156/345.18 216/56 216/90 216/92



Family:

Publication number	Publication date	Application number	Application date
US5766496 A	19980616	US19960656498	19960531
US5783098 A	19980721	US19960757495	19961127

Priority:

US19960656498 19960531 US19960757495 19961127

Probable Assignee: NISENE TECHNOLOGY GROUP DBA B AND G INTERNATIONAL

Assignee(s): (std): NISENE TECHNOLOGY GROUP ; NISENE TECHNOLOGY GROUP INC

Assignee(s): NISENE TECHNOLOGY GROUP DBA B AND G INTERNATIONAL

Inventor(s): (std): KANISHAK RICHARD A ; MARTIN KIRK ALAN

12) Family number: 50499517 (US2012015862A)

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Title: CLEANING SOLUTION

Abstract: Disclosed are cleaning solutions. More particularly, non-toxic solutions of base, water, alcohol and detergent, that effectively and surprisingly eliminate contaminating aliphatic acids in aqueous solutions. When present as a foam or even a contaminating film remaining on various parts and surfaces, aliphatic acid contaminants can be present a large and costly problem in manufacturing operations, cleaning tasks, personal hygiene. The need to remove such contaminants arises in a myriad environments and situations, such as during the manufacture of detergents, pharmaceuticals, consumer products, coring and core analysis, manipulation of oils, fuels, fermentation applications, manufacture of emollients, moisturizers, liquors, foods such as seafood, milk, butter and other dairy products, water processing, paper products, tissue culture, reusable clinical equipment, and the like. Presented are cleaning compositions and methods that effectively eliminate and prevent build up of such dangerous and costly contaminants in aqueous solutions.

Classifications:

International (IPC 8-9): C09K3/00 C11D1/75 C11D3/04 C11D3/20 C11D3/26 C11D3/43 C11D3/44 C11D3/60 (Advanced/Invention)

CPC: C11D3/43 C11D3/2006 C11D3/044 C11D3/04 C11D3/2003 C11D1/75

US: 252/189 252/189S 252/192 252/192S 510/185 510/188 510/191 510/238 510/364 510/365 510/433 510/435 510/436 510/503 510/505 510/506 510/509

Family:

Publication number	Publication date	Application number	Application date
US2012015862 AA	20120119	US20110183282	20110714
US2014200171 AA	20140717	US20130080570	20131114
US8609602 BB	20131217	US20110183282	20110714

Priority:

US20100364347P 20100714 US20110183282 20110714 US20130080570 20131114

Probable Assignee: ANATRACE PRODUCTS LLC

Assignee(s): (std): AFFYMETRIX INC ; ANATRACE PRODUCTS LLC ; HUANG LIJUN M ; HUFF SETH M ; MITTAL RITESH ; HUANG LIJUN ; TANG LIANG ; TRAVIS BENJAMIN R

Assignee(s): OPUS BANK ; FIDUS MEZZANINE CAPITAL LP ; LBC CREDIT AGENCY SERVICES LLC AGENT AS ; EDGE BIOSYSTEMS INC ; GENERAL ELECTRIC CAPITAL AGENT AS CORP ; FIDUS MEZZANINE CAPITAL LP COLLATERAL AGENT AS

Inventor(s): (std): HUANG LIJUN ; HUANG LIJUN M ; HUFF SETH M ; MITTAL RITESH ; TANG LIANG ; TRAVIS BENJAMIN R

Agent(s): PEARNE AND GORDON LLP

13) Family number: 12527020 (US6058738A)

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Title: Method of forming glass having integral polarizing and non-polarizing regions

Abstract: Method of making polarizing glass having integral polarizing and non-polarizing regions is disclosed. The method involves applying a protective glass/frit material capable of blocking reducing gas to the surface of the glass to form a desired pattern, exposing the glass to a reducing gas atmosphere to render unprotected glass polarizing, and removing the

protective glass/frit material to reveal underlying non-polarizing regions.

Classifications:

International (IPC 8-9): C03C14/00 C03C17/04 C03C23/00 C03C3/064 C03C3/11 C03C3/17 C03C4/00 C03C4/06

C03C8/10 C03C8/14 G02B1/08 G02B5/30 G02B6/126 G02B6/13 G02C7/12 (Advanced/Invention);

C03C3/17 G02B6/12 (Advanced/Non-invention)

International (IPC 1-7): C03B37/00 C03C14/00 C03C15/00 C03C17/04 C03C23/00 C03C3/064 C03C3/11 C03C3/17 C03C4/06 C03C8/10 C03C8/14 C03C8/24 G02B1/08 G02B5/30 G02C7/12

CPC: C03C3/064 C03C3/11 C03C4/00 C03C4/06 C03C8/10 C03C8/14 C03C14/006 C03C17/04 C03C23/00 C03C2214/08 C03C2214/30 C03C2218/33 G02B5/3033 G02B6/126 G02B6/13 G02B2006/12116

European: C03C14/00F C03C17/04 C03C23/00 C03C3/064 C03C3/11 C03C4/00 C03C4/06 C03C8/10 C03C8/14 G02B5/30P1 G02B6/126 G02B6/12A G02B6/12P G02B6/13 M03C214/08 M03C214/30 M03C218/330 S02B6/12R14

US: 427/163.1 427/165 427/269 427/270 427/271 427/272 427/282 427/287 501/13 65/30.1 65/30.11 65/32.1 65/32.3 65/32.4 65/33.6

JP F-Term: 2H006 2H049 2H049/BA02 2H049/BA23 2H049/BB01 2H049/BC03 2H149 2H149/AB26 2H149/BA02 2H149/BA17 2H149/BB26 2H149/FA41/W 2H149/FA42/W 2H149/FA51/W 2K010 4G062 4G062/AA04 4G062/BB05 4G062/DA04 4G062/DA05 4G062/DA06 4G062/DB03 4G062/DB04 4G062/DC04 4G062/DD01 4G062/DD02 4G062/DD03 4G062/DD04 4G062/DE01 4G062/DF01 4G062/EA01 4G062/EA02 4G062/EA03 4G062/EA10 4G062/EB01 4G062/EB02 4G062/EB03 4G062/EC01 4G062/EC02 4G062/EC03 4G062/EC04 4G062/ED01 4G062/EE01 4G062/EF01 4G062/EG01 4G062/FA01 4G062/FA10 4G062/FB01 4G062/FC01 4G062/FD01 4G062/FE01 4G062/FF01 4G062/FG01 4G062/FH01 4G062/FJ01 4G062/FK01 4G062/FL01 4G062/GA01 4G062/GA10 4G062/GB01 4G062/GC01 4G062/GD01 4G062/GE01 4G062/HH01 4G062/HH02 4G062/HH03 4G062/HH04 4G062/HH05 4G062/HH07 4G062/HH09 4G062/HH11 4G062/HH13 4G062/HH15 4G062/HH17 4G062/HH20 4G062/JJ01 4G062/JJ03 4G062/JJ06 4G062/JJ07 4G062/JJ08 4G062/KK01 4G062/KK03 4G062/KK05 4G062/KK07 4G062/KK10 4G062/NN01

JP F-Index: C03C3/064 C03C3/11 C03C8/10 G02B1/08 G02B5/30 G02C7/12

Family:

Publication number	Publication date	Application number	Application date
DE69802774 D1	20020117	DE19986002774	19980902
DE69802774 T2	20020808	DE19986002774T	19980902
EP0909744 A2	19990421	EP19980116599	19980902
EP0909744 A3	19990428	EP19980116599	19980902
EP0909744 B1	20011205	EP19980116599	19980902
JP11194218 A2	19990721	JP19980294775	19981016
KR100488201 B1	20050707	KR19980043322	19981016
KR19990037158 A	19990525	KR19980043322	19981016
US6058738 A	20000509	US19980173892	19981016
US6089042 A	20000718	US19990327870	19990608

Priority:

US19970063741 19971017 US19970063741P 19971017 KR19980043322 19981016
US19980173892 19981016 US19990327870 19990608

Probable Assignee: CORNING INC

Assignee(s): (std): CORNING INC

Assignee(s): CORNING INC CORNING ; CORNING INCORPORATED

Inventor(s): (std): SARHANGI AHMAD ; GILL SHERRY JEANNE

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

14) Family number: 29580625 (US2007248957A)

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Title: ENCODED SOLID SUPPORTS FOR BIOLOGICAL PROCESSING AND ASSAYS USING SAME

Abstract: Combinations, called matrices with memories, of matrix materials with remotely addressable or remotely programmable recording devices that contain at least one data storage unit are provided. The matrix materials are those that are used in as supports in solid phase chemical and biochemical syntheses, immunoassays and hybridization reactions. The matrix materials may additionally include fluophors or other luminescent moieties to produce luminescing matrices with memories. The data storage units are non-volatile antifuse memories or volatile memories, such as EEPROMS, DRAMS or flash memory. By virtue of this combination, molecules and biological particles, such as phage and viral particles and cells, that are in proximity or in physical contact with the matrix combination can be labeled by programming the memory with identifying information and can be identified by retrieving the stored information. Combinations of matrix materials, memories, and linked molecules and biological materials are also provided. The combinations have a multiplicity of applications, including combinatorial chemistry, isolation and purification of target macromolecules, capture and detection of macromolecules for analytical purposes, selective removal of contaminants, enzymatic catalysis, cell sorting, drug delivery, chemical modification and other uses. Methods for electronically tagging molecules, biological particles and matrix support materials, immunoassays, receptor binding assays, scintillation proximity assays, non-radioactive proximity assays, and other methods are also provided.

Classifications:

International (IPC 8-9): B01J19/00 B01L3/00 B01L3/14 C07B61/00 C07H21/00 C07K1/00 C07K1/04 C07K1/13 C07K17/00 C07K17/06 C08J7/16 C12M3/00 C12N11/00 C12N15/09 C12Q1/00 C12Q1/58 C12Q1/68 C12Q1/70 C40B30/00 C40B30/04 C40B40/06 C40B40/10 C40B50/14 C40B50/16 C40B50/18 C40B60/06 C40B60/08 C40B60/14 C40B70/00 G01N1/00 G01N15/14 G01N21/64 G01N31/00 G01N33/00 G01N33/48 G01N33/50 G01N33/53 G01N33/542 G01N33/543 G01N33/566 G01N35/00 G01N37/00 G06F17/30 G06F19/00 G06K19/00 G06K19/06 G06K7/10 G08C19/00 G08C23/04 G09F3/00 G11C13/02 G11C13/04 G11C17/00 (Advanced/Invention); B01L3/14 C07B61/00 C12N15/09 C12Q1/68 C12Q1/70 C40B40/06 C40B40/10 C40B50/14 C40B60/14 C40B70/00 G01N15/14 G01N33/53 G01N33/566 G01N35/00 G01N37/00 G08C19/00 (Advanced/Non-invention); B01J19/00 B01L3/00 C07B61/00 C07H21/00 C07K1/00 C07K17/00 C12M3/00 C12N15/09 C12Q1/68 C12Q1/70 G01N33/53 G01N33/566 G01N35/00 G01N37/00 G06F19/00 G08C19/00 G08C23/00 G11C13/02 (Core/Invention); C40B40/04 C40B60/14 C40B70/00 G01N15/14 G01N35/00 (Core/Non-invention)

International (IPC 1-7): A61K38/00 B01J19/00 B01L3/00 B01L3/14 B07C5/36 C07B61/00 C07C255/41 C07C255/60 C07C323/32 C07D213/40 C07D307/52 C07D317/58 C07D333/20 C07H21/00 C07H21/04 C07K1/00 C07K1/04 C07K1/13 C07K14/00 C07K16/00

C07K17/00 C07K17/06 C07M21/00 C07M21/04 C08F259/00
C08F8/00 C08G63/48 C08J7/18 C08L33/02 C12M1/00 C12M1/34
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G01N35/02 G01N35/04 G01N37/00 G06F17/30 G06F19/00 G06G7/58
G06K19/00 G06K19/06 G06K7/10 G09F3/00 G11C13/02 G11C13/04
G11C17/00 H01L21/336

CPC: B01J2219/00283 B01J2219/00554 B01L3/50825 B01L3/5453
C07H21/00 G01N2333/9121 G01N2500/00 G11C13/02
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B01J2219/00319 B01J2219/00454 B01J2219/00691 C08J7/16
C08J2327/12 C40B50/14 G01N33/54353 G01N33/54393
G11C2213/81 B01L2300/022 B01L2300/024 B01L3/50255
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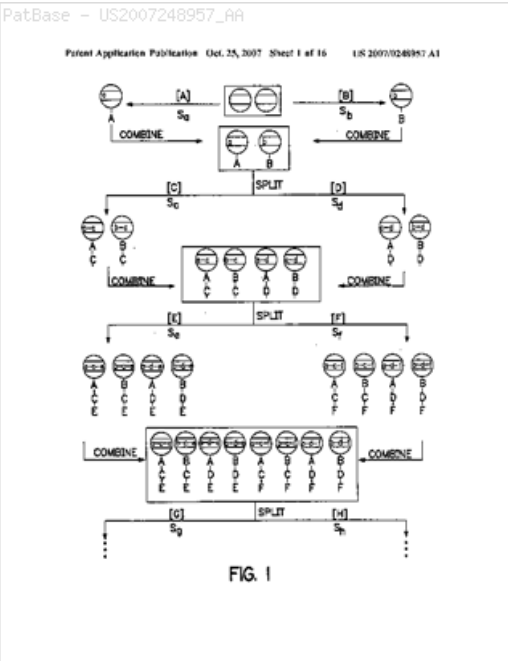
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Family:

Publication number	Publication date	Application number	Application date
AT254965 E	20031215	AT19960916437T	19960425
AT347101 E	20061215	AT19970912649T	19971007
AT362397 E	20070615	AT19960934064T	19961003
AU199659185 A1	19961129	AU19960059185	19960425
AU199672573 A1	19970428	AU19960072573	19961003
AU199735779 A1	19980114	AU19970035779	19970624
AU199749767 A1	19980505	AU19970049767	19971007
AU199862479 A1	19980807	AU19980062479	19980122
AU707444 B2	19990708	AU19960059185	19960425
CA2216645 AA	19970926	CA19962216645	19960425
CA2267769 AA	19990406	CA19972267769	19971007
CN1181720 A	19980513	CN19961093374	19960425
DE69630881 D1	20040108	DE19966030881	19960425
DE69630881 T2	20040902	DE19966030881T	19960425
DE69637085 D1	20070628	DE19966037085	19961003
DE69737025 D1	20070111	DE19976037025	19971007
EA199700257 A1	19981224	EA19970000257	19960425
EP0822861 A1	19980211	EP19960916437	19960425
EP0822861 B1	20031126	EP19960916437	19960425
EP0853497 A2	19980722	EP19960934064	19961003
EP0853497 B1	20070516	EP19960934064	19961003
EP0931259 A2	19990728	EP19970912649	19971007
EP0931259 B1	20061129	EP19970912649	19971007
EP0959985 A2	19991201	EP19980904656	19980122
JP11511238 T2	19990928	JP19960530562T	19960425



KR19990008052 A	19990125	KR19970707576	19960425
US2007248957 AA	20071025	US20040011452	20041214
US2009226891 AB	20090910	US20040011452	20041214
US2011212857 AA	20110901	US20110099198	20110502
US2011237459 AA	20110929	US20110158302	20110610
US2012238466 AA	20120920	US20120478689	20120523
US2013090260 AA	20130411	US20120708778	20121207
US5741462 A	19980421	US19950428662	19950425
US5751629 A	19980512	US19950484504	19950607
US5874214 A	19990223	US19950538387	19951003
US5925562 A	19990720	US19950480196	19950607
US5961923 A	19991005	US19960723423	19960930
US6017496 A	20000125	US19960709435	19960906
US6025129 A	20000215	US19950567746	19951205
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US6340588 BA	20020122	US19980051022	19980922
US6352854 BA	20020305	US19950480147	19950607
US6372428 BA	20020416	US19980098122	19980616
US6416714 BA	20020709	US19950484486	19950607
US7935659 BB	20110503	US20040011452	20041214
US8219327 BB	20120710	US20110099198	20110502
WO9636436 A1	19961121	WO1996US06145	19960425
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WO9712680 A3	19970821	WO1996US15999	19961003
WO9749653 A2	19971231	WO1997US11035	19970624
WO9749653 A3	19980226	WO1997US11035	19970624
WO9815825 A2	19980416	WO1997US15754	19971007
WO9815825 A3	19980730	WO1997US15754	19971007
WO9831732 A2	19980723	WO1998US01295	19980122
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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 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 SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

Abstract: A treatment mechanism for keratin, including hair and epidermis, in which a chemical is applied in a substantially dry state. The chemical is adapted to release sulfur from said keratin, thereby softening it. The keratin is then rinsed with water, preparing the keratin to be exfoliated from the skin or, in the case of hair, cut or shaved. The preferred chemical is a salt of fluoric acid being either tin or sodium based.

Classifications:

International (ipc 8-9): A61K8/02 A61K8/20 A61K8/21 A61Q3/00 A61Q9/00 A61Q9/02 A61Q9/04 C11D11/00 C11D7/08 C11D7/12 (Advanced/Invention);

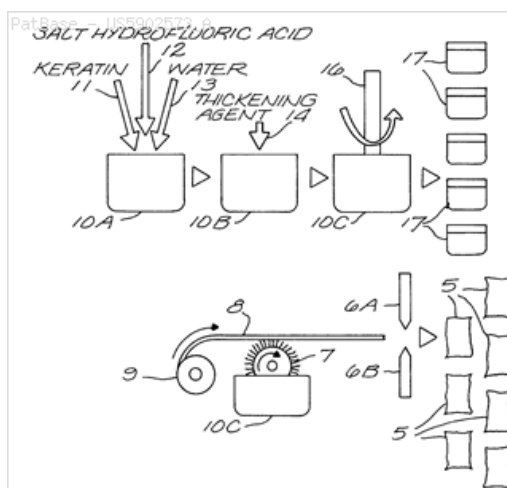
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European: A61K7/04D A61K7/50D A61K8/02 A61K8/20 A61K8/21 A61Q3/00 A61Q9/00 A61Q9/02 A61Q9/04 C11D11/00B2A C11D7/08 K61K201/08 K61K800/28

US: 132/202 424/401 424/61 424/63 424/64 424/673 424/70.1 424/701 510/529 8/137



Family:

Publication number	Publication date	Application number	Application date
DE19848251 A1	19990708	DE19981048251	19981020
US5902573 A	19990511	US19970954134	19971020
US5980873 A	19991109	US19970888948	19970707
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Priority:

US19970888948 19970707 US19970954134 19971020 US19990307514 19990507

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Inventor(s): (std): KAPRAL ALES ; KAPRAL ALES M

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16) Family number: 28224927 (US2002077259A)

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Title: STABILIZED ALKALINE COMPOSITIONS FOR CLEANING MICROELECTRONIC SUBSTRATES

Abstract: The invention provides aqueous alkaline compositions useful in the microelectronics industry for stripping or cleaning semiconductor wafer substrates by removing photoresist residues and other unwanted contaminants. The compositions typically contain (a) one or more metal ion-free bases at sufficient amounts to produce a pH of about 10-13 and one or more bath stabilizing agents having at least one pKa in the range of 10-13 to maintain this pH during use; (b) optionally, about 0.01 percent to about 5 percent by weight (expressed as percent SiO₂) of a water-soluble metal ion-free silicate; (c) optionally, about 0.01 percent to about 10 percent by weight of one or more chelating agents; (d) optionally, about 0.01 percent to about 80 percent by weight of one or more water-soluble organic co-solvents; and (e) optionally, about 0.01 percent to about 1 percent by weight of a water-soluble surfactant.

Classifications:

International (ipc 8-9): B08B7/00 C11D C11D11/00 C11D3/00 C11D3/02 C11D3/08 C11D3/30 C11D3/33 C11D3/36 C11D3/39 C11D7/14 C11D7/26 C11D7/32 C11D7/34 C11D7/36 C11D7/50 C23F1/32 C23G1/22 G03F G03F7/42 H01L21/02 H01L21/304 H01L21/306 H01L21/3213 (Advanced/Invention);

C11D3/00 G03F7/42 H01L21/311 (Advanced/Non-invention);

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G03F (Subclass/Invention)

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US: 134/10 134/19 134/19S 134/2 134/28 134/28S 134/29 134/29S 134/2S 134/3 134/30 134/30S 134/34 134/34S 134/35 134/35S 134/36 134/36S 134/3S 134/41 134/41S 134/42 134/42S 134/902 252/79.1 252/79.5 257/E21.228 257/E21.228S 257/E21.255 257/E21.255S 257/E21.313 438/745 438/906 510/175 510/176 510/176S 510/178 510/178S 510/401

JP F-Term: 2H096 2H096/AA25 2H096/AA27 2H096/LA01 2H096/LA03 2H096/LA07 2H196 2H196/AA25 2H196/AA27 2H196/LA01 2H196/LA03 2H196/LA07 5F057 5F157 5F157/AA42 5F157/AA46 5F157/AA48 5F157/AA64 5F157/AA93 5F157/AC04 5F157/BC03 5F157/BC05 5F157/BC07 5F157/BC13 5F157/BC15 5F157/BC53 5F157/BD02 5F157/BD03 5F157/BD33 5F157/BE12 5F157/BE22 5F157/BE33 5F157/BE46 5F157/BE58 5F157/BE59 5F157/BF12 5F157/BF22 5F157/BF38 5F157/BF39 5F157/EB32 5F157/EB21 5F157/DB57 4H003 4H003/DA15 4H003/EA20 4H003/EB04 4H003/EB07 4H003/EB12 4H003/EB13 4H003/EB19 4H003/EB22 4H003/EB24 4H003/EB28 4H003/ED31 4H003/ED34 4H003/EE04 4H003/FA28 5F157/AA28 5F157/AA77 5F157/AA91 5F157/AC01 5F157/BB01 5F157/BB11 5F157/BD08 5F157/BD09 5F157/BE23 5F157/BE48 5F157/CB03 5F157/CB13 5F157/CB15 5F157/CB22 5F157/CB28 5F157/CE05 5F157/DC82



Family:

Publication number	Publication date	Application number	Application date
AT288468 E	20050215	AT20010977863T	20010928
AT436043 E	20090715	AT19990925649T	19990517
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AU200196947 A1	20020429	AU20010096947	20010928
AU200196947 A5	20020429	AU20010096947	20010928
CA2330747 AA	20001101	CA19992330747	19990517
CA2330747 C	20100727	CA19992330747	19990517
CA2425613 AA	20030411	CA20012425613	20010928
CN100370360 C	20080220	CN19998008801	19990517
CN1205325 C	20050608	CN20018017467	20010928
CN1309785 A	20010822	CN19998008801	19990517
CN1469918 A	20040121	CN20018017467	20010928
DE60108774 D1	20050310	DE20016008774	20010928
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DE60108774 T2	20060316	DE20016008774T	20010928
DE69941088 D1	20090820	DE19996041088	19990517
DK1105778 T3	20091019	DK19990925649T	19990517
EP1105778 A1	20010613	EP19990925649	19990517
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EP1326951 A1	20030716	EP20010977863	20010928
EP1326951 B1	20050202	EP20010977863	20010928
ES2328309 T3	20091111	ES19990925649T	19990517
HK1039806 A1	20081219	HK20020101291	20020221
HK1039806 B	20081219	HK20020101291	20020221
HK1062310 A1	20060120	HK20040105196	20040715
HK1062310 A1	20041029	HK20040105196	20040715
HK1062310 A3	20041029	HK20040105196	20040715
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IL139546 A0	20020210	IL19990139546	19990517
IL139546 A1	20050831	IL19990139546	19990517
IL155429 A0	20031123	IL20010155429	20010928
IL155429 A1	20060221	IL20010155429	20010928
IN00526CN2003 A	20050415	IN2003CN00526	20030411
IN206990 B	20070629	IN2003CN00526	20030411
JP2003526111 T2	20030902	JP20000550003T	19990517
JP2004511917 T2	20040415	JP20020536403T	20010928
JP4565741 B1	20101020	JP20000550003T	19990517
JP4565741 B2	20101020	JP20000550003T	19990517
JP4758055 B2	20110824	JP20020536403T	20010928
KR100610387 B1	20060809	KR20007012953	19990517
KR20010034866 A	20010425	KR20007012953	19990517
KR20030051721 A	20030625	KR20037005353	20010928
MXPA00011391 A1	20050620	MX2000PA11391	19990517
MXPA03003353 A1	20041202	MX2003PA03353	20010928
MY121446 A	20060128	MY19990001939	19990518
PT1105778 T	20090923	PT19990925649T	19990517
TH21687 B	20070403	TH20011004171	20011012
TH30235 B	20110704	TH19991001673	19990517
TH37725 A	20000320	TH19991001673	19990517
TH56882 A	20030620	TH20011004171	20011012
TWI226520 B	20050111	TW19990108110	19990518
TWI294909 B	20080321	TW20010125230	20011012
US2002077259 AA	20020620	US20010859142	20010516
US6465403 BA	20021015	US20000701114	20001117
US6585825 BA	20030701	US20000688559	20001016
US6599370 BB	20030729	US20010859142	20010516
WO0233033 A1	20020425	WO2001US42406	20010928
WO9960448 A1	19991125	WO1999US10875	19990517
WO9960448 C1	19991229	WO1999US10875	19990517

Priority:

US19980085681P 19980518	US19980085861P 19980518	US19990115084P 19990107
WO1999US10875 19990517	US20000688559 20001016	KR20007012953 20001117
US20000701114 20001117	US20010859142 20010516	WO2001US42406 20010928

Probable Assignee: AVANTOR PERFORMANCE MATERIALS LLC

Assignee(s): (std): AVANTOR PERFORMANCE MAT INC ; MALLINCKRODT BAKER INC ; MALLINCKRODT INC ; MALLINCRODT BAKER INC ; SKEE DAVID C

Assignee(s): NUSIL TECHNOLOGY LLC ; APPLIED SILICONE CO LLC ; DAVID C SKEE ; MALLINCKRODT LLC ; JEFFERIES FINANCE LLC ; GOLDMAN SACHS BANK USA COLLATERAL AGENT AS ; DRIED CRANBERRIES FLOAT BAKER KO PO RAY LTD ; MALLINCKRODT BAKER INC 675 MCDONNELL BOULEVARD P O BOX 5840 ; NALLINCKRODT INC. ; CREDIT SUISSE CAYMAN ISLAND BRANCH AG ; CREDIT SUISSE CAYMAN ISLANDS BRANCH AG ; M S MALLINCKRODT BAKER INC ; AVANTOR PERFORMANCE MATERIALS INC ; AVANTOR PERFORMANCE MATERIALS LLC ; AVANTOR PERFORMANCE MATERIALS LLC WAS AVANTOR PERFORMANCE MATERIALS INC.. ; AVANTOR PERFORMANCE MATERIALS LLC WAS KNOWN AS AVANTOR PERFORMANCE MATERIALS INC.. ; BANK OF NEW YORK MELLON TRUST CO NA NOTES COLLATERAL AGENT AS

Inventor(s): (std): DAVID C SKEE ; DC SKEE ; SKEE C ; SKEE C DAVID ; SKEE D C ; SKEE DAVID C ; SKEE DAVID

Inventor(s): DAVID SKEE C ; C DAVID C SKEE ; D C SKEE

Agent(s): OSLER HOSKIN AND HARCOURT LLP; CARPMAELS AND RANSFORD; CHINA PATENT AGENT HK LTD; CHINA PATENT AGENT HK LTD 22 F GREAT EAGLE CENTRE 23 HARBOUR ROAD; EITAN PEARL LATZER AND COHEN ZEDEK; EITAN MEHULAL AND SADOT; REINHOLD COHN AND PARTNERS; AOYAMA TAMOTSU; YAMADA TAKUJI; TANAKA MITSUO; IWASAKI MITSUTAKA; NAKAJIMA SHOJI; KOJIMA KAZUAKI; WOORIN PATENT FIRM

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 CR CU CY CZ DE DK DM DZ 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 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

17) Family number: 14947143 (US2003138831A)

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Title: METHOD FOR SEQUENCING AND CHARACTERIZING POLYMERIC BIOMOLECULES USING APTAMERS AND A METHOD FOR PRODUCING APTAMERS

Abstract: The present invention relates to methods for sequencing a polymeric biomolecule and methods for structurally characterizing the same comprising using aptamers. In a preferred embodiment of this invention, these methods relate to using the single polymeric biomolecule. The invention also relates to a method for selecting aptamers useful for sequencing nucleic acids and aptamers generated by the method. The invention also provides aptamers that recognize and bind to AMP, dAMP, GMP, dGMP, CMP and dCMP.

Classifications:

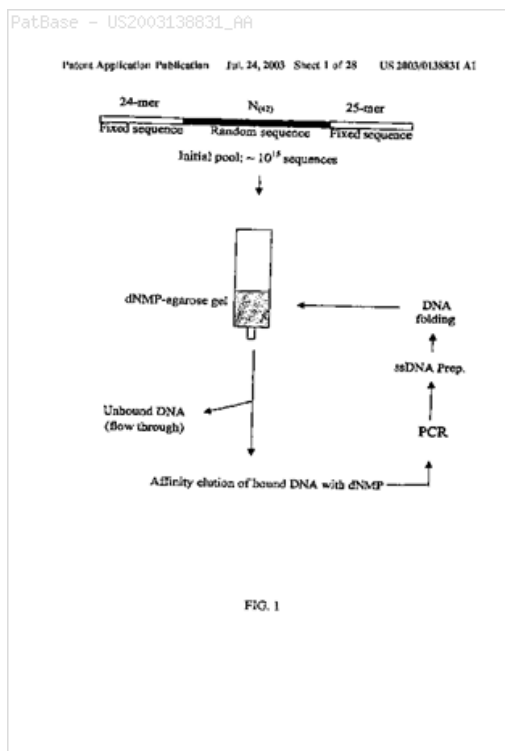
International (IPC 8-9): C12Q1/68 C12Q1/6811 C12Q1/6869 (Advanced/Invention)

International (IPC 1-7): C07H21/00 C07H21/02 C07H21/04 C12P19/34 C12Q1/68 G01N33/53

CPC: C12Q1/6811 C12Q1/6869

European: C12Q1/68A8 C12Q1/68E

US: 435/6 435/6.1 435/6.100S 435/6.12 435/6.120P 435/6P 435/7.1 435/7.100S 435/91.1 536/23.1 536/24.2 536/24.3 536/24.31 536/24.32 536/25.4



Family:

Publication number	Publication date	Application number	Application date
AU200057237 A1	20001212	AU20000057237	20000525
AU200057237 A5	20001212	AU20000057237D	20000525
US2003138831 AA	20030724	US20020309690	20021203
US6515120 BA	20030204	US20000578634	20000525
WO0071755 A2	20001130	WO2000US14401	20000525
WO0071755 A3	20020228	WO2000US14401	20000525

Priority:

US19990135863P 19990525 US20000578634 20000525 WO2000US14401 20000525
US20020309690 20021203

Probable Assignee: GE HEALTHCARE BIO SCIENCES CORP

Assignee(s): (std): KWAGH JAE GYU ; MACKLIN JOHN J ; MITSIS PAUL G ; PRAELUX INC ; ULMER KEVIN M

Assignee(s): AMERSHAM BIOSCIENCES CORP ; GE HEALTHCARE BIO SCIENCES CORP

Inventor(s): (std): KWAGH JAE GYU ; MACKLIN JOHN J ; MITSIS PAUL G ; ULMER KEVIN M

Inventor(s): JAE GYU KWAGH ; JOHN J MACKLIN ; KEVIN M ULMER ; PAUL G MITSIS

Designated states: AE AG 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 DZ 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 MA MC MD MG MK ML MN MR MW MX MZ 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

18) Family number: 34298671 (WO07022026A2)

© PatBase

Title: APPARATUS FOR ASSAY, SYNTHESIS AND STORAGE, AND METHODS OF MANUFACTURE, USE, AND MANIPULATION THEREOF

Abstract: The invention features methods of making devices, or "platens", having a high-density array of through-holes, as well as methods of cleaning and refurbishing the surfaces of the platens. The invention further features methods of making high- density arrays of chemical, biochemical, and biological compounds, having many advantages over conventional, lower-density arrays. The invention includes methods by which many physical, chemical or biological transformations can be implemented in serial or in parallel within each addressable through-hole of the devices. Additionally, the invention includes methods of analyzing the contents of the array, including assaying of physical properties of the samples.

Classifications:

International (IPC 8-9): C12M1/00 C12M1/34 C12M3/00 C12N11/02 C12N5/00 C12N5/06 C12Q1/00 C12Q1/02 C12Q1/68 G01N33/15 G01N33/48 G01N33/50 G01N37/00 (Advanced/Invention); C12M1/00 C12M1/34 C12M3/00 C12N11/00 C12N5/00 C12N5/06 C12Q1/00 C12Q1/02 C12Q1/68 G01N33/15 G01N33/48 G01N33/50 G01N37/00 (Core/Invention)

CPC: G01N30/466 G01N30/6091 B01L3/50255 B01L3/0268 B01L3/0293 B01L3/50857 B01L2200/0689 B01L2300/0819 B01L2300/10 B01L2400/0442 G01N35/1074 H01J49/04E3

European: B01L3/50255 B01L3/50857 G01N35/10M5 H01J49/04E3 L01L200/06N L01L3/02D10 L01L3/02H2 L01L300/08B6 L01L300/10 L01L400/04F12

JP F-Term: 2G045 2G045/AA40 2G055 2G058 4B029 4B029/AA08 4B029/AA21 4B029/BB11 4B029/CC03 4B029/FA01 4B029/FA15 4B029/GA03 4B029/GB09 4B033 4B033/NA16 4B033/NB02 4B033/NB26 4B033/NB34 4B033/NB57 4B033/NB58 4B033/NB68 4B033/NB70 4B033/ND05 4B033/NF06 4B033/NG05 4B063 4B063/QA18 4B063/QQ42 4B063/QQ52 4B063/QQ79 4B063/QR77 4B063/QR82 4B063/QS39 4B065 4B065/AA90 4B065/BC42 4B065/BD35 4B065/BD39 4B065/CA46

JP F-Index: C12M1/00/A C12N11/02 C12N5/00/D C12N5/00/E C12N5/00/201 C12N5/00/202/A C12N5/071 C12Q1/02 C12Q1/68/A G01N33/15/Z G01N33/48/M G01N33/50/Z G01N37/00/102

PatBase - WO/022026_A2

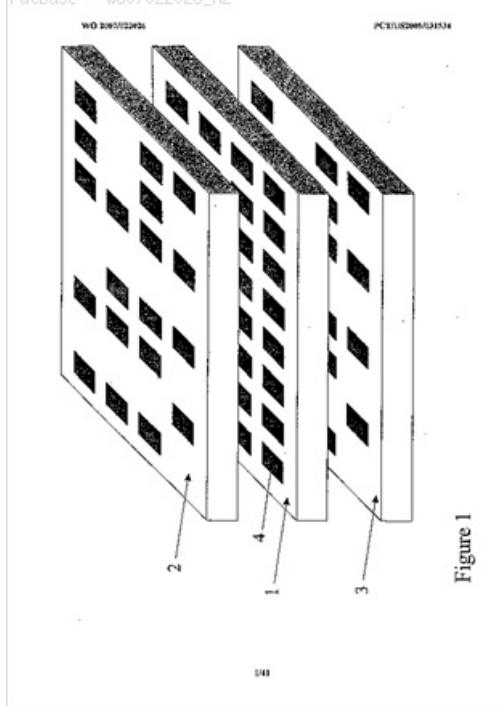


Figure 1

Family:

Publication number	Publication date	Application number	Application date
AU2006279763 AA	20070222	AU20060279763	20060810
CA2619250 AA	20080211	CA20062619250	20060811
EP1920045 A2	20080514	EP20060801354	20060810
EP1920045 A4	20110706	EP20060801354	20060810
JP2009504161 T2	20090205	JP20080526264T	20060810
WO07022026 A2	20070222	WO2006US31534	20060810
WO07022026 A3	20080124	WO2006US31534	20060810

Priority:

US20050707501P 20050811 WO2006US31534 20060810 WO2006US31534 20060811

Probable Assignee: LIFE TECHNOLOGIES CORP

Assignee(s): (std): BIOTROVE INC ; BRENNAN COLIN ; HESS ROBERT ; HOROWITZ DANIEL ; ILYIN SERGEY E ; KANIGAN TANYA S ; LIFE TECHNOLOGIES CORP ; OZBAL CAN ; LINTON JOHN

Inventor(s): (std): BRENNAN COLIN ; HESS ROBERT ; HOROWITZ DANIEL ; ILYIN SERGEY E ; KANIGAN TANYA S ; LINTON JOHN ; OZBAL CAN

Inventor(s): ROBERT HESS ; SERGEY E ILYIN ; TANYA S KANIGAN ; JOHN LINTON ; CAN OZBAL ; COLIN BRENNAN ; DANIEL HOROWITZ

Agent(s): GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; ZWICKER JOERK ET AL

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MW MX 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 SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

19) Family number: 58456 (US3410804A)

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Title: Cleaning compositions and method of using the same

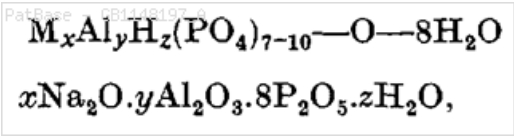
Abstract: 1,148,197. Cleaning compositions. STAUFFER CHEMICAL CO. 9 Nov., 1966 [3 Jan., 1966], No. 50234/66. Heading C5D. Cleaning compositions inhibited against attack on glass and glazed ceramic and porcelain surfaces comprise 0A5-20 percent by weight of at least one alkali metal aluminium orthophosphate and 80-99 percent by weight of at least one caustic alkali, alkali metal carbonate, phosphate, silicate, borate, sulphate or chlorinated cyanurate, or chlorinated cyanuric acid, chlorinated trisodium phosphate or a detergent. The alkali metal aluminium orthophosphate may be an acidic orthophosphate of the formula wherein M is an alkali metal, x is 1-5, y is 2-4 and z is 11-17, with the sum of x+3y+z equal to the sum of the valences of the phosphate radicals, i.e. 21-30; or an alkaline orthophosphate of the approximate empirical composition wherein x is 6-15, y is 1-5-4-5 and z is 4-40. The detergent is preferably a low- or non- foamer, e.g. a nonionic alkyl aryl polyether or amine polyglycol condensate or an anionic sodium dodecyl diphenylether disulphonate, or if a moderate- or high-foaming detergent is used, a foam depressant such as a silicone compound may be added. Germicidal quaternary ammonium compounds, e.g. benzethonium chloride, are optionally added and the compositions may also contain 20-80 percent by weight of a condensed phosphate builder and/or water-softening or chelating ingredients such as EDTA and nitrilo acetic acid. The compositions, which are formed in powders or granules, may be dissolved in water and marketed in solution, suspension or emulsion form.

Classifications:

International (IPC 8-9): C11D7/00 C11D7/16 (Advanced/Invention); C11D7/00 C11D7/02 (Core/Invention)

International (IPC 1-7): C03C3/16 C11D3/06 C11D7/00 C11D7/16

CPC: C11D3/046 C11D3/3955 C11D7/06 C11D7/10 C11D7/12 C11D7/14 C11D7/16
European: C11D3/04S C11D3/395F C11D7/06 C11D7/10 C11D7/12 C11D7/14 C11D7/16
US: 252/187.1 252/187.33 252/187.34 252/99 423/269 423/306 423/308 423/312 510/219 510/227 510/233 510/238 510/379 510/381 510/508



Family:

Publication number	Publication date	Application number	Application date
BE692128 A	19670706		19670103
CH489595 A	19700430	CH19660017997	19661215
DE1617203 A1	19710225	DE19661617203	19661126
FR1506967 A	19671222	FR19660089423	19661229
GB1148197 A	19690410	GB19660050234	19661109
IL26825 A1	19700719	IL19660026825	19661108
NL146876 B	19750815	NL19670000057	19670103
NL6700057 A	19670704	NL19670000057	19670103
US3410804 A	19681112	US19660517896	19660103

Priority:

US19660517896 19660103

Probable Assignee: STAUFFER CHEMICAL CO

Assignee(s): (std): STAUFFER CHEMICAL CO

Assignee(s): STAUFFER CHEMICAL COMPANY ; STAUFFER CHEMICAL COMPANY NEW YORK ; STAUFFER CHEM CO

Inventor(s): (std): EDWARD NELSON WALSH ; NELSON WALSH EDWARD ; WALSH EDWARD N

Agent(s): REINHOLD COHN AND PARTNERS

20) Family number: 29252440 (US5320908A)

© PatBase

Title: DEPOSITION OF AN EXTREMELY THIN SILVER LAYER ON A NONCONDUCTING SUBSTRATE

Abstract: Metallic silver is deposited upon the surface of a nonconducting substrate using a multi-step wet deposition process. The surface is cleaned, and then activated in an aqueous solution containing stannous tin. The silver is deposited as a colloidal material from an aqueous solution of a silver-containing salt, a reduction agent that reduces the salt to form the metallic silver, and a deposition control agent that prevents the silver from nucleating throughout the solution. After the substrate is coated, the coating is stabilized in an aqueous solution of a salt of a metal from the platinum group of gold, dissolved in dilute hydrochloric acid. The process is particularly effective for depositing uniform films of 2 to 2000 Angstroms thickness, which strongly adhere to the substrate.

Classifications:

International (IPC 8-9): A01N25/10 A01N59/16 A61L2/16 A61L27/00 A61L29/00 A61L29/10 A61L29/16 A61L31/00

C23C18/28 C23C18/30 C23C18/44 (Advanced/Invention);

A01N25/10 A01N59/16 A61L2/16 (Advanced/Non-invention)

International (IPC 1-7): A01N25/10 A01N59/16 A61K7/40 A61L2/16 A61L27/00 A61L29/00 A61L31/00 B05D3/04 B32B15/04 B32B27/00 C23C18/30 C23C18/42 C23C18/44 C23C26/00

CPC: Y10S604/905 C23C18/285 A61L15/18 A61L15/46 A61L31/088 A61L31/16 A61L2300/608 A61L2300/61 A61L2300/802 A61L29/16 A61L29/106 A61L2300/102 A61L2300/104 A61L2300/404 A61L2300/45 A61L2300/452 A61L2300/606 C23C18/44 Y10T428/12556 Y10T428/12562 Y10T428/12569 Y10T428/12875 Y10T428/12889 Y10T428/12896 Y10T428/31692 Y10T428/31707

European: A61L15/18 A61L15/46 A61L27/54 A61L29/10R A61L29/16 A61L31/08B6 A61L31/16 C23C18/28B C23C18/44 K61L300/102 K61L300/104 K61L300/404 K61L300/450 K61L300/452 K61L300/606 K61L300/608 K61L300/610 K61L300/802

US: 427/304 427/305 427/306 427/437 427/443.1 428/434 428/461 428/465 428/624 428/625 428/626 428/670 428/672 428/673 604/264 604/265 604/328 604/905

JP F-Term: 4K022 4K022/AA03 4K022/AA04 4K022/AA13 4K022/AA15 4K022/AA16 4K022/AA20 4K022/AA21 4K022/AA22 4K022/AA41 4K022/AA49 4K022/BA01 4K022/CA04 4K022/CA18 4K022/DA01 4K022/DB01 4K022/DB02 4K022/DB04 4K022/DB05 4K022/DB06 4K022/DB07 4K022/DB30 4K022/EA04 4H011 4H011/AA01 4H011/BA01 4H011/BB18 4H011/BC19 4K022/AA37 4K022/CA03 4K022/CA16 4K022/CA17 4K022/CA22 4K022/DA03 4K022/EA02 4H011/AA02 4H011/DA08 4H011/DC08 4H011/DC10 4H011/DD07 4H011/DH02 4H011/DH04 4H011/DH05 4H011/DH06 4H011/DH08 4H011/DH14 4H011/DH18 4H011/DH19 4H011/DH27 4H011/DH28 4K022/BA18 4K022/BA34 4K022/BA36 4K022/CA05 4K022/CA20 4K022/CA21

JP F-Index: C23C18/30 C23C18/44 A01N59/16/A A01N25/10

Family:

Publication number	Publication date	Application number	Application date
AT134719 E	19960315	AT19900108396T	19900504
AU199054734 A1	19901108	AU19900054734	19900504
AU642872 B2	19931104	AU19900054734	19900504
CA2016081 AA	19901104	CA19902016081	19900504
CA2016081 C	19990406	CA19902016081	19900504
DE69025495 D1	19960404	DE19906025495	19900504
DE69025495 T2	19960711	DE19906025495T	19900504
DK0400349 T3	19960318	DK19900108396T	19900504
EP0400349 A1	19901205	EP19900108396	19900504
EP0400349 B1	19960228	EP19900108396	19900504
EP0693576 A1	19960124	EP19950112862	19900504
EP1375700 A1	20040102	EP20030017503	19900504
ES2086328 T3	19960701	ES19900108396T	19900504
FI902219 A0	19900503	FI19900002219	19900503
FI95816 B	19951215	FI19900002219	19900503
FI95816 C	19960325	FI19900002219	19900503
GR3019899 T3	19960831	GR19960401281T	19960513
JP2645431 B2	19970825	JP19900118482	19900507
JP3030687 B2	20000410	JP19950320886	19951208
JP3219085 A2	19910926	JP19900118482	19900507

JP8325743 A2	19961210	JP19950320886	19951208
JP8333687 A2	19961217	JP19950320892	19951208
NO304746 B1	19990208	NO19900001974	19900503
NO901974 A	19901105	NO19900001974	19900503
NO901974 A0	19900503	NO19900001974	19900503
NO901974 B1	19990208	NO19900001974	19900503
US5320908 A	19940614	US19930017623	19930212
US5395651 A	19950307	US19920897614	19920610
US5747178 A	19980505	US19950399281	19950306
US5965204 A	19991012	US19980072019	19980504
US6224983 BA	20010501	US19990374709	19990813

Priority:

US19890347016 19890504 CA19902016081 19900504 EP19900108396 19900504
EP19950112862 19900504 JP19900118482 19900507 US19900630333 19901213
US19920897614 19920610 US19930017623 19930212 US19950399281 19950306
US19980072019 19980504 US19990374709 19990813

Probable Assignee: BACTIGUARD AB

Assignee(s): (std): ADTECH HOLDINGS LTD ; AD TECH HOLDINGS LTD

Assignee(s): AD TECH HOLDINGS LTD ST HELIER CHANNEL ISLANDS GB ; ADOTETSUKU HORUDEINGUSU LTD ; ADTEC HORUDEINGUSU LTD ; ADTECH HOLDING ; ADTECH HOLDINGS LIMITED ; AD TECH HOLDINGS LIMITED ; BACTIGUARD NAUTILUS HOUSE LA COUR DES CASEMES ; BACTIGUARD AB ; KAUPTHING BANK SVERIGE AS SECURITY AGENT AB ; KAUPTHING BANK SVERIGE AB (PUBL) SECURITY AGENT AS ; SODERVALL BILLY V ; LUNDEBERG THOMAS ; KAUPTHING BANK SVERIGE AB PUBL SECURITY AGENT AS

Inventor(s): (std): SODERVALL BILLY V ; THOMAS LUNDEBERG ; BILLY VALTER SODERVALL ; SODERVALL BILLY VALTER ; LUNDEBERG THOMAS

Inventor(s): LUNDEBERG THOMAS S 18131 LIDINGOE SE ; BIRII BARUTERU SODERUBARU ; NAME NOT GIVEN ; TOOMASU RUNDEBERUGU ; SODERVALL BILLY VALTER S 28500 MARKARYD SE

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; FETHERSTONHAUGH AND CO

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

21) Family number: 33036292 (US2006112972A)

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Title: METHODS AND COMPOSITIONS FOR REMOVING METAL OXIDES

Abstract: The invention relates to methods and compositions for removing metal oxide soils from surfaces. The compositions include an anionic surfactant and a pH adjuster at an acidic pH. In one embodiment, the invention relates to a method of removing a metal oxide soil from a surface by (1) applying a use composition to the surface, the use composition having a pH adjuster in an amount sufficient to provide a use pH at or below 7, an anionic surfactant in an amount to remove a portion of the metal oxide soil, and a carrier, (2) removing the metal oxide soil from the surface with the use composition, and (3) rinsing the surface to remove the use composition and the metal oxide soil.

Classifications:

International (IPC 8-9): B08B3/00 (Advanced/Invention);

B08B3/00 (Core/Invention)

CPC: C11D1/345 C11D3/0042 C11D3/0073 C11D3/2086

European: C11D1/34C C11D3/00B15 C11D3/00B8 C11D3/20E5

US: 134/2 134/22.1 134/22.11 134/22.12 134/22.18 134/22.19 134/26 134/28 134/3 134/30 134/34 134/35 134/36 134/40 134/41 134/42

Family:

Publication number	Publication date	Application number	Application date
US2006112972 AA	20060601	US20040000261	20041130
US7611588 BB	20091103	US20040000261	20041130

Priority:

US20040000261 20041130

Probable Assignee: ECOLAB INC

Assignee(s): (std): ECOLAB INC

Inventor(s): (std): STAUB RICHARD K ; HEI ROBERT D ; STAUB RICHARD ; RUHR RICK O ; ROBERT D H ; PEITERSEN NATHAN D

Inventor(s): PEITERSEN NATHAN ; ROBERT D ; ROBERT D HEI ; RUHR RICK

Agent(s): ECOLAB INC; ANDREW D

22) Family number: 48465132 (US2011063782A)

© PatBase

Title: CONDUCTIVE FILM STACKED MEMBER, ELECTRO-OPTICAL DEVICE, AND ELECTRONIC APPARATUS

Abstract: A conductive film stacked member includes: a first conductive film formed on a substrate; and a second conductive film formed on the first conductive film, wherein the width of the second conductive film is narrower than the width of the first conductive film, and the second conductive film has a surface convexly curved in the direction away from the first conductive film in a cross-sectional view.

Classifications:

International (IPC 8-9): B32B17/06 B32B3/00 G06F3/041 G06F3/045 G09F9/00 G09F9/30 H01B5/14 H05K7/00 (Advanced/Invention);

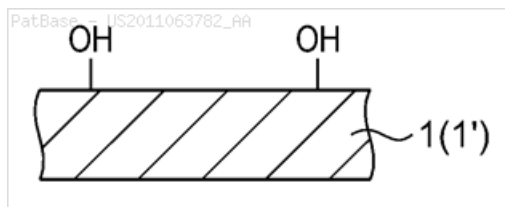
G06F3/041 H01B5/14 (Core/Non-invention)

CPC: G06F2203/04103 G06F3/044 G06F2203/04111 Y10T428/24628 B32B17/06 G06F3/0412 H01B5/14

European: G06F3/044 S06F203/04111

US: 361/679.01 361/679.010P 361/735 428/174 428/174S

JP F-Term: 5B068 5B068/AA22 5B068/AA33 5B068/AA39 5B068/BB06 5B068/BC02 5B068/BC13 5B087 5B087/AA04



5B087/AB02 5B087/AC11 5B087/CC02 5B087/CC03 5B087/CC16 5B087/CC37 5C094 5C094/AA36 5C094/BA27
 5C094/BA31 5C094/BA43 5C094/DA13 5C094/EA05 5C094/FA02 5C094/FB12 5C094/JA08 5C094/JA09 5G435 5G435/AA07
 5G435/BB05 5G435/BB06 5G435/BB12 5G435/EE49 5G435/HH12 5G435/HH20
JP F-Index: G06F3/041/330/H G06F3/044/124 G06F3/045/F G09F9/00/366/A G09F9/30/330/Z

Family:

Publication number	Publication date	Application number	Application date
CN102023746 A	20110420	CN201010287106	20100915
CN102023746 B	20140402	CN201010287106	20100915
JP2011064751 A2	20110331	JP20090213008	20090915
KR101162061 B1	20120703	KR20100086818	20100906
KR20110030323 A	20110323	KR20100086818	20100906
TW201126546 A	20110801	TW20100130363	20100908
TWI413990 B	20131101	TW20100130363	20100908
US2011063782 AA	20110317	US20100848453	20100802
US8456849 BB	20130604	US20100848453	20100802

Priority:

JP20090213008 20090915

Probable Assignee: SEIKO EPSON CORP

Assignee(s): (std): HIRAI TOSHIMITSU ; ISHIDA KOHEI ; SEIKO EPSON CORP ; OKAMOTO EIJI

Inventor(s): (std): HIRAI TOSHIMITSU ; ISHIDA KOHEI ; OKAMOTO EIJI ; TOSHIMITSU HIRAI ; KOHEI ISHIDA ; EIJI OKAMOTO

Agent(s): HARNESS DICKEY AND PIERCE P L C ; HARNESS DICKEY AND PIERCE PLC

23) Family number: 49513798 (US2013216811A)

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Title: NANOTAPE AND NANOCARPET MATERIALS

Abstract: Provided are nanostructure-containing nanotape materials. The materials may be incorporated at the interface between two other structures to provide strength and toughness at the interface. The materials may also be applied to a standalone structure to provide strength and toughness. Also provided are related methods of fabricating the nanotape materials, as well as gas diffusion membranes and fuel cells that include nanostructured materials.

Classifications:

International (IPC 8-9): B01D67/00 B01D69/02 B01D71/02
 B32B37/16 B82Y30/00 B82Y40/00 C01B31/02 H01M4/86 H01M8/02
 H01M8/10 (Advanced/Invention)

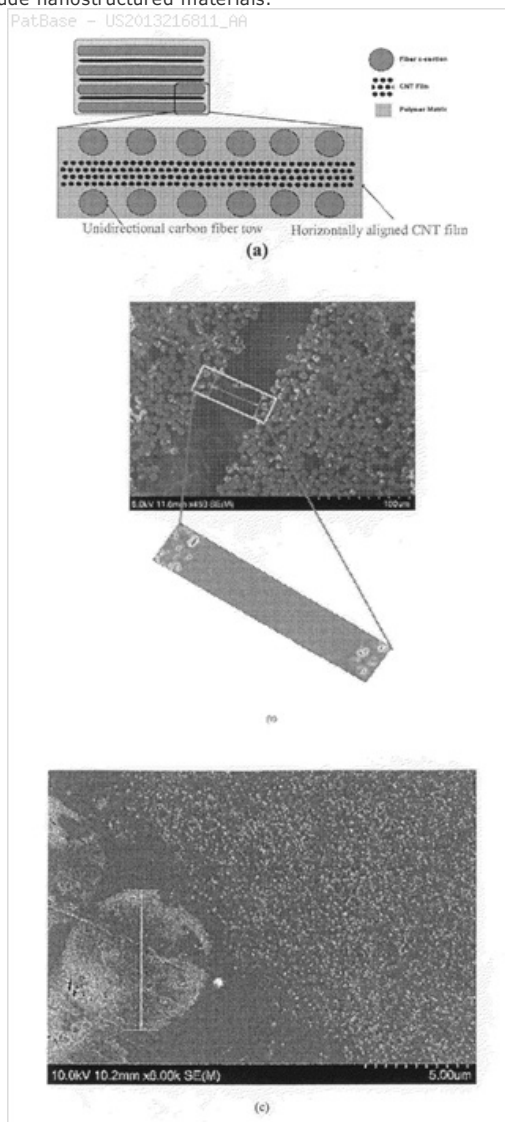
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 C04B35/803 C04B35/806 C04B35/83 C04B2235/5288 Y10T156/10
 Y10T442/30 Y10T428/249921 C01B32/162 C01B32/17

European: B82Y30/00 B82Y40/00 C01B31/02B4B2 C01B31/02B4D2
 C04B35/117 C04B35/565 C04B35/80B C04B35/80D C04B35/83
 M01B202/34 M04B235/52J2

US: 156/246 156/60 264/334 428/220 428/221 442/181

JP F-Term: 3C082 4G146 4G146/AA11 4G146/AB06 4G146/AD17
 4G146/AD22 4G146/AD24 4G146/AD26 4G146/BA11 4G146/BA42
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 4G146/BC44 4G146/CB10 4G146/CB17 4G146/CB35 4G146/CB39
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JP F-Index: B82Y30/00 B82Y40/00 C01B31/02/101/F C01B32/152
 C01B32/168 H01M4/86/H H01M8/02/E H01M8/10



Family:

Publication number	Publication date	Application number	Application date
EP2521694 A2	20121114	EP20110729194	20110106
JP2013541125 T2	20131107	JP20120548118T	20110106
US2013216811 AA	20130822	US20110520878	20110106
WO11106109 A2	20110901	WO2011US20360	20110106
WO11106109 A3	20130510	WO2011US20360	20110106

Priority:

US20100335532P 20100107 US20100339733P 20100305 WO2011US20360 20110106
US20110520878 20110106

Probable Assignee: OF HAWAII UNIV

Assignee(s): (std): GHASEMI NEHJAD MOHAMMED NAGHI ; GHASEMI NEJHAD MEHRDAD ; GUDAPATI VAMSHI M ; UNIV HAWAII

Assignee(s): OF HAWAII UNIV ; UNIVERSITY OF HAWAII

Inventor(s): (std): GHASEMI NEHJAD MOHAMMED NAGHI ; GHASEMI NEJHAD MEHRDAD ; GUDAPATI VAMSHI M

Agent(s): INTES DIDIER GERARD ANDRE; HOSHINO OSAMU; ONO SHINJIRO; TOMITA HIROYUKI; KOBAYASHI YASUSHI; ROSEDALE JEFFREY 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 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

24) Family number: 41577622 (US2008057561A)

© PatBase

Title: CELL CULTURE TREATMENT APPARATUS AND CELL CULTURE TREATMENT METHOD

Abstract: The present invention provides a cell culture treatment device for culturing, treating and collecting cells, which includes a flow path, a cell-retaining section, a solution inlet, a solution outlet, a cell collection port and a lid. The present invention also provides an device for easily, efficiently separating and collecting the cells thereby in a short period of time, and provides a method therefor.

Classifications:

International (IPC 8-9): C12M1/00 C12M1/12 C12M3/00 C12N1/00 C12N1/20 C12N5/04 C12N5/06 (Advanced/Invention); C12M1/00 C12M1/12 C12M3/00 C12N1/00 C12N1/20 C12N5/04 C12N5/06 (Core/Invention)

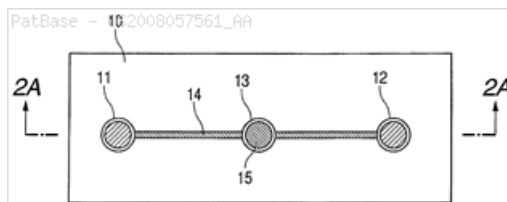
CPC: C12M23/38 C12M23/12 C12M25/04

European: C12M1/12C

US: 435/243 435/243P 435/297.1 435/297.100S 435/297.2 435/297.200S

JP F-Term: 4B029 4B029/AA02 4B029/BB02 4B029/BB11 4B029/CC02 4B029/CC10 4B029/DG08 4B029/DG10 4B065 4B065/AA01 4B065/AA72 4B065/AA88 4B065/AA90 4B065/BC21 4B065/BC42 4B065/BD14

JP F-Index: C12M1/00/D C12M3/00/A C12N1/20/A C12N5/00/E C12N5/00/F C12N5/00/202/A C12N5/00/203 C12N5/04 C12N5/071



Family:

Publication number	Publication date	Application number	Application date
JP2008054521 A2	20080313	JP20060232178	20060829
US2008057561 AA	20080306	US20070843564	20070822

Priority:

JP20060232178 20060829

Probable Assignee: CANON INC

Assignee(s): (std): CANON KK

Assignee(s): CANON INC ; CANON KABUSHIKI KAISHA

Inventor(s): (std): TAKAHASHI ATSUSHI ; IBII TAKAHISA ; HONMA TSUTOMU

Agent(s): FITZPATRICK CELLA HARPER AND SCINTO

25) Family number: 30143300 (US2002027088A)

© PatBase

Title: SINGLE PATIENT DOSE MEDICAMENT DISPENSER WITH APPLICATOR

Abstract: A dose package for applying a material with an applicator having a separate material and applicator portion. In one embodiment, a portion of a cover is removable, exposing the material and applicator. In another embodiment, a plurality of material wells are used to mix different materials to be dispensed with an applicator. In another embodiment, a material well is squeezed to dispense the material onto an applicator.

Classifications:

International (IPC 8-9): A61C5/06 A61F13/38 A61F13/40 A61M35/00 B65D25/08 B65D51/32 B65D69/00 B65D75/32 B65D75/36 B65D75/54 B65D75/58 B65D77/24 B65D81/24 B65D81/32 B65D83/00 (Advanced/Invention);

B65D75/36 B65D83/00 (Advanced/Non-invention);

A61C5/00 A61M35/00 B65D75/28 B65D75/52 B65D77/24 B65D81/32

B65D83/00 (Core/Invention);

B65D75/28 (Core/Non-invention)

International (IPC 1-7): A45D44/00 A46B3/00 A61C19/00 A61F13/36 A61J1/00 A61J1/14 A61M35/00 B65D25/08 B65D69/00

B65D71/00 B65D75/36 B65D75/54 B65D75/58 B65D77/24

B65D81/32 B65D83/00 B65D83/10 C09K13/00 C09K13/04

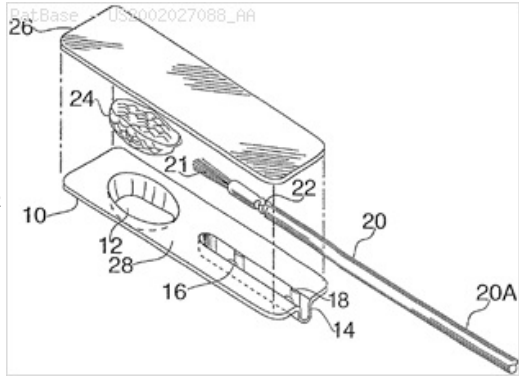
C09K13/06

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B65D75/327 B65D75/328 B65D75/54 B65D2575/3227 A61C5/60

A61C5/66 B65D77/245 A61M35/003 B65D75/36 B65D75/5855

B65D81/3294
European: A61C5/06 A61C5/06A A61M35/00B A61M35/00B2
B65D51/32 B65D75/32D1 B65D75/32D3 B65D75/32D3B B65D75/54
B65D75/58F B65D77/24B B65D81/32M L05C17/005C
L65D575/32Y1B L65D75/36
US: 206/15.3 206/15.300S 206/209 206/210 206/219 206/229
206/361 206/469 252/79.1 252/79.2 252/79.4 401/129 401/132
JP F-Term: 3E013 3E013/AB03 3E013/AC01 3E013/AC03
3E013/AC11 3E013/AC16 3E013/AD22 3E013/AE06 3E013/AF02
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3E067/AC04 3E067/AC05 3E067/AC06 3E067/BA10 3E067/BA15
3E067/BA26 3E067/BA34 3E067/BB14 3E067/BC02 3E067/BC07
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JP F-Index: A61M35/00/X B65D75/32 B65D81/32/B B65D83/00/G



Family:

Publication number	Publication date	Application number	Application date
AU199528730 A1	19960222	AU19950028730	19950627
DE19581697 T	19970619	DE19951081697T	19950627
DE19581697 T1	19970619	DE19951081697T	19950627
DE29522347 U1	20020516	DE19952022347U	19950627
DE60219567 D1	20070531	DE20026019567	20021010
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DE60219567 T2	20080103	DE20026019567T	20021010
DE60236556 D1	20100708	DE20026036556	20021010
DE69519575 D1	20010111	DE19956019575	19950627
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DE69533528 D1	20041021	DE19956033528	19950627
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DE69533735 D1	20041209	DE19956033735	19950627
DE69533735 T2	20050310	DE19956033735T	19950627
EP0770021 A1	19970502	EP19950924084	19950627
EP0770021 A4	19980415	EP19950924084	19950627
EP0770021 B1	20001206	EP19950924084	19950627
EP0770021 B2	20050504	EP19950924084	19950627
EP1035033 A2	20000913	EP20000110390	19950627
EP1035033 A3	20001220	EP20000110390	19950627
EP1035033 B1	20040915	EP20000110390	19950627
EP1197442 A2	20020417	EP20010129750	19950627
EP1197442 A3	20020502	EP20010129750	19950627
EP1197442 B1	20041103	EP20010129750	19950627
EP1302213 A2	20030416	EP20020022930	20021010
EP1302213 A3	20040114	EP20020022930	20021010
EP1302213 B1	20070418	EP20020022930	20021010
EP1816089 A1	20070808	EP20070007731	20021010
EP1816089 B1	20100526	EP20070007731	20021010
JP10503150 T2	19980324	JP19960505744T	19950627
JP2003175077 A2	20030624	JP20020297960	20021010
JP2009165840 A2	20090730	JP20090048315	20090302
JP3877764 B2	20070207	JP19960505744T	19950627
JP4304363 B2	20090729	JP20020297960	20021010
US2002027088 AA	20020307	US20010976225	20011012
US2004134815 AA	20040715	US20030730499	20031208
US2005269219 AA	20051208	US20050199408	20050808
US2008035495 AA	20080214	US20070821342	20070622
US5660273 A	19970826	US19940275003	19940713
US5954996 A	19990921	US19960680136	19960715
US6116414 A	20000912	US19990342756	19990629
US6328159 BA	20011211	US20000590058	20000608
US6685013 BB	20040203	US20010976225	20011012
US6959808 BB	20051101	US20030730499	20031208
US7243789 BB	20070717	US20050199408	20050808
US7828142 BB	20101109	US20070821342	20070622
WO9603326 A1	19960208	WO1995US08203	19950627

Priority:

US19940275003 19940713	DE19951081697 19950627	EP19950924084 19950627
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US19990342756 19990629	US20000590058 20000608	US20010976225 20011012
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US20050199408 20050808	US20070821342 20070622	

Probable Assignee: CENTRIX INC

Assignee(s): (std): CENTRIX INC ; DISCKO JOHN J JR

Assignee(s): CENTRIX INC SHELTON CONN US ; DISCKO JOHN J

Inventor(s): (std): DISCKO JOHN JR ; DISCKO JR ; DISCKO JR JOHN J ; JOHN DISCKO JR ; DISCKO JOHN J ; DISCKO JOHN J JR ; DISCKO JOHN

Inventor(s): DISCKO JOHN JJR ; JR JOHN J ; DISCKO JOHN JUN HAMDEN CONN US ; DISCKO JOHN JUN ; DISCKO

Agent(s): GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER ANWALTSSOZIETAET; PAUL A FATTIBENE FATTIBENE AND FATTIBENE; FATTIBENE AND FATTIBENE; PAUL A; ARTHUR T

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

26) Family number: 31395321 (US2003134433A) © PatBase

Title: ELECTRONIC SENSING OF CHEMICAL AND BIOLOGICAL AGENTS USING FUNCTIONALIZED NANOSTRUCTURES

Abstract: This invention provides for an apparatus and a method for detecting the presence of pathogenic agents with sensors containing functionalized nanostructures integrated into circuits on silicon chips. The nanostructures are functionalized with molecular transducers that recognize and bind targeted analytes which are diagnostic of the pathogenic agent of interest. The molecular transducer includes a receptor portion, which binds the analyte, and an anchor portion that attaches to the nanostructure. Upon binding of the analyte, a change in molecular configuration represented by the newly formed receptor-analyte complex creates a force that is transmitted to the nanostructure via the anchor portion of the transducer. The effect of the force transmitted to the nanostructure is to alter its conductivity. The change in conductivity of the nanotube thus represents a signal that indicates the presence of the pathogenic agent of interest.

Classifications:

International (IPC 8-9): A61B5/05 A61B5/08 A61B5/083 A61B5/145 A61K31/202 A61K31/395 A61N1/36 B01D53/94 B01J19/00 B01J23/42 B01J23/44 B01J23/46 B01J35/06 B01J8/06 B05D5/12 B82B1/00 B82B3/00 B82Y10/00 B82Y15/00 B82Y30/00 C01B31/02 C12M1/00 C12M1/34 C12M3/00 C12N11/14 C12N11/16 C12Q1/00 C12Q1/68 C30B25/00 C40B60/12 D01F9/12 F02M25/06 G01N1/00 G01N1/28 G01N21/00 G01N21/75 G01N27/00 G01N27/02 G01N27/12 G01N27/22 G01N27/26 G01N27/28 G01N27/30 G01N27/327 G01N27/40 G01N27/403 G01N27/411 G01N27/414 G01N27/416 G01N31/12 G01N31/22 G01N33/00 G01N33/483 G01N33/497 G01N33/53 G01N33/543 G01N33/551 G01N33/566 G01N33/568 G01N33/66 G01N37/00 G01N7/00 G01R27/08 G05D23/00 G06F19/00 G08B21/00 H01B1/24 H01J1/02 H01J1/62 H01J63/04 H01L21/288 H01L23/48 H01L27/108 H01L27/14 H01L29/00 H01L29/06 H01L29/66 H01L29/768 H01L29/82 H01L51/00 H01L51/30 H05K13/00 (Advanced/Invention); A61B5/05 A61B5/08 A61B5/1486 B82B1/00 B82Y15/00 B82Y40/00 B82Y5/00 B82Y99/00 C12M1/00 C12N15/09 C12Q1/68 G01N15/06 G01N27/00 G01N27/12 G01N27/403 G01N27/416 G01N30/96 G01N33/00 H01L51/00 H01L51/05 (Advanced/Non-invention); A61B5/05 A61B5/08 A61K31/185 A61K31/395 A61N1/36 B01J19/00 B01J8/02 B82B3/00 C01B31/00 C12M1/00 C12M1/34 C12M3/00 C12N11/00 C12Q1/68 C30B25/00 F02M25/06 G01N1/00 G01N21/00 G01N27/00 G01N27/02 G01N27/12 G01N27/22 G01N27/26 G01N27/28 G01N27/30 G01N27/327 G01N27/40 G01N27/403 G01N27/406 G01N27/416 G01N31/22 G01N33/00 G01N33/483 G01N33/53 G01N33/543 G01N33/551 G01N33/566 G01N37/00 G01N7/00 G01N27/08 G05D23/00 G06F19/00 H01B1/24 H01J1/00 H01J63/00 H01L23/48 H01L27/108 H01L29/00 H01L29/02 H01L29/66 H01L51/00 (Core/Invention); A61B5/05 A61B5/08 B82B1/00 C12M1/00 C12N15/09 C12Q1/68 G01N15/06 G01N27/00 G01N27/416 G01N30/00 G01N33/00 H01L51/00 H01L51/05 (Core/Non-invention)

International (IPC 1-7): A61B5/08 B82B3/00 C12M1/34 C12Q1/68 G01N1/00 G01N21/00 G01N27/12 G01N31/22 G01N33/00 G01N33/543 H01J1/62 H01J63/04 H01L21/00 H01L27/14 H01L29/06 H01L29/82 H01L29/84 H02H1/00

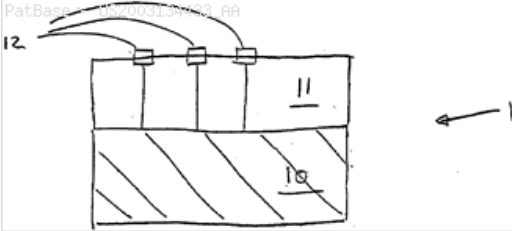
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G01N33/483/E

Family:

Publication number	Publication date	Application number	Application date	
AU2003291385 AA	20040603	AU20030291385	20031107	
BRPI0417802 A	20070410	BR2004PI17802	20041220	
EP1558933 A1	20050803	EP20030768779	20031107	
EP1664724 A2	20060607	EP20040788761	20040913	
EP1664724 A4	20070502	EP20040788761	20040913	
EP1680353 A2	20060719	EP20040821666	20040917	
EP1680353 A4	20120411	EP20040821666	20040917	
EP1695072 A1	20060830	EP20040815114	20041220	
EP1695072 A4	20110810	EP20040815114	20041220	
EP1781771 A2	20070509	EP20050810377	20050824	
EP1831670 A2	20070912	EP20050855662	20051223	
EP1831670 A4	20100915	EP20050855662	20051223	
EP1941270 A2	20080709	EP20060851621	20060718	
EP1941270 A4	20110316	EP20060851621	20060718	
EP2007379 A2	20081231	EP20070754869	20070403	
EP2007379 A4	20091209	EP20070754869	20070403	
EP2029013 A2	20090304	EP20070756204	20070504	
EP2029013 A4	20110928	EP20070756204	20070504	
EP2198146 A1	20100623	EP20080798291	20080820	
JP2006505806 T2	20060216	JP20050507121T	20031107	
JP2007505323 T2	20070308	JP20060526418T	20040913	
JP2007515227 T2	20070614	JP20060545585T	20041220	
JP2008511008 T2	20080410	JP20070530178T	20050824	
JP2008525822 T2	20080717	JP20070549560T	20051223	
JP2009532064 T2	20090910	JP20090504284T	20070403	
JP2009537219 T2	20091029	JP20090510967T	20070504	
JP2010537823 T2	20101209	JP20100524086T	20080820	
JP2012247432 A2	20121213	JP20120175154	20120807	
JP5611041 B2	20141022	JP20100524086T	20080820	
JP5743974 B2	20150701	JP20120175154	20120807	
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US2004043527 AA	20040304	US20020280265	20021026	
US2004132070 AA	20040708	US20030704066	20031107	
US2004253741 AA	20041216	US20040773631	20040206	
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US2005169798 AA	20050804	US20050090550	20050325	
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US2005245836 AA	20051103	US20040019792	20041220	
US2005279987 AA	20051222	US20030656898	20030905	
US2006055392 AA	20060316	US20050111121	20050420	
US2006228723 AA	20061012	US20050259414	20051025	
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US2007045756 AA	20070301	US20060488465	20060718	
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WO05026694 A2	20050324	WO2004US30136	20040913
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WO05094221 A2	20051013	WO2004US30562	20040917
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WO06071895 A3	20070208	WO2005US47143	20051223
WO07114931 A2	20071011	WO2007US08422	20070403
WO07114931 A3	20081224	WO2007US08422	20070403
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WO07136523 A3	20081002	WO2007US10836	20070504
WO08039165 A2	20080403	WO2006US28079	20060718
WO08039165 A3	20080807	WO2006US28079	20060718
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WO08052104 A2	20080502	WO2007US82503	20071025
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WO09032534 A1	20090312	WO2008US73746	20080820

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Probable Assignee: NANOMIX INC

Assignee(s): (std): BRADLEY KEITH ; GRUNER GEORGE ; JOSHI VIKRAM ; HAN TZONG RU ; GABRIEL JEAN CHRISTOPHE P ; NANOMIX INC ; NIEMANN JOSEPH ; GANDHI SHRIPAL ; JOINER CHARLES STEVEN JR ; MICKELSON

WILLIAM ; OLSON DARIN ; GANDHI SHRIPAL C ; JOHNSON BRADLEY N ; KUZMYCH OLEKSANDR ; JOSHI KANCHAN A ; GRUENER GEORGE ; GANDHI SHIRPAL C ; STAR ALEXANDER ; STETTER JOSEPH R ; WYATT JEFFREY ; STETTNER JOSEPH R ; SOSNOWSKI RON ; TU EUGENE ; VALCKE CHRISTIAN ; WANG QIAN ; PASSMORE JOHN L ; SKARUPO SERGEI ; PASSMORE JOHN LOREN ; RADTKEY RAY ; OUBORG WILLEM JAN ; RAMAKRISHNAN KASTOORIRANGANATH ; SKARUPO SERGIE ; ARMITAGE N PETER ; BEN BARAK NADAV ; COLLINS PHILIP G ; DAVIS ALONA ; CHANG DANIEL M ; CHANG YING LAN ; BRIMAN MIKHAIL ; DAVID THOMAS ; BRYANT CRAIG ; THOMAS DAVID ; UNIV CALIFORNIA ; RAMAKRISHNAN KASTOORIRANGANATHAN

Assignee(s): UNIV OF CALIFORNIA ; ALTERNATIVE ENERGY RESOURCES INC ; ARMITAGE N P ; SILICON VALLEY BANK ; THE UNIV OF CALIFORNIA ; THE REGENTS OF THE UNIVERSITY OF CALIFORNIA ; DAVIS ALONA J ; THE UNIV ; MORGAN STANLEY SENIOR FUNDING INC ; NXP BV ; NXP F K A FREESCALE SEMICONDUCTOR INC BV

Inventor(s): (std): ARMITAGE N P ; BRADLEY KEITH ; CHANG DANIEL M ; DAVIS ALONA ; DAVIS ALONA J ; GABRIEL JEAN CHRISTOPHE P ; GANDHI SHIRPAL C ; GANDHI SHRIPAL ; GRUNER GEORGE ; HAN TZONG RU ; JOINER CHARLES STEVEN JR ; JOSHI VIKRAM ; MICKELSON WILLIAM ; RAMAKRISHNAN KASTOORIRANGANATHAN ; SOSNOWSKI RON ; STAR ALEXANDER ; STETTNER JOSEPH R ; WANG QIAN ; WYATT JEFFREY ; WYATT JEFFREY ; BRIMAN MIKHAIL ; BEN BARAK NADAV ; JEAN CHRISTOPHE P GABRIEL ; CHARLES STEVEN JOINER JR ; WUDL FRED ; SWANSON BASIL ; SKARUPO SERGIE ; SKARUPO SERGEI ; RAMAKRISHNAN KASTOORIRANGANATH ; PASSMORE JOHN LOREN ; PASSMORE JOHN L ; OUBORG WILLEM JAN ; OLSON DARIN ; NIEMANN JOSEPH ; KUZMYCH OLEKSANDR ; JOSHI KANCHAN A ; JOINER CHARLES S JR ; JOHNSON BRADLEY N ; GRUENER GEORGE ; GANDHI SHRIPAL C ; GANDHI SHIRPAL C ; GABRIEL JEAN CHRISTOPHE ; COLLINS PHILIP G ; COLLINS PHILIP ; CHANG YING LAN ; STETTER JOSEPH R ; STETTNER JOSEPH R ; THOMAS DAVID ; TU EUGENE ; VALCKE CHRISTIAN ; BRYANT CRAIG ; ARMITAGE N PETER ; RADTKEY RAY ; VIKRAM JOSHI ; JOSEPH R STETTNER ; JEFFREY WYATT ; GEORGE GRUNER ; ALEXANDER STAR

Inventor(s): ARMITAGE N ; JOINER CHARLES S ; CHANG DANIEL ; JOINER CHARLES SJR ; STETTER JOSEPH ; PASSMORE JOHN ; JOHNSON BRADLEY ; JOINER CHARLES

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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

27) Family number: 31986128 (WO05010169A2)

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Title: HIGH THROUGHPUT OR CAPILLARY-BASED SCREENING FOR A BIOACTIVITY OR BIOMOLECULE

Abstract: The invention provides systems and methods for maintaining and allowing a cell from a mixed population of uncultivated cells to be maintained, proliferate and grow, comprising encapsulating in a microenvironment at least a single cell from the population; placing the encapsulated cell in a growth column; and incubating the encapsulated cell in the growth column under conditions allowing the encapsulated cell to survive and be maintained, thereby isolating and maintaining the cell. The invention also provides systems and methods for identifying a biomolecule of interest from a population of cells, comprising: encapsulating at least one cell from a population in a microenvironment; placing the microenvironment comprising at least one cell in a growth column; incubating the microenvironment in the growth column under conditions allowing the encapsulated cell to survive and be maintained, thereby isolating and maintaining the cell; isolating said cell comprising the and identifying a biomolecule interest from said encapsulated cell.

Classifications:

International (ipc 8-9): A61P11/00 A61P31/00 A61P35/00 A61P37/02 B01J19/00 B01L3/00 C12N1/15 C12N1/19 C12N1/21 C12N15/10 C12N15/12 C12N5/02 C12N5/08 C12Q1/02 C12Q1/68 C40B40/02 G01N33/50 G01N33/569 (Advanced/Invention); C40B40/06 C40B60/14 (Advanced/Non-invention); C12N (Subclass/Invention)

International (ipc 1-7): C12N

CPC: G01N33/569 B01J19/0046 B01J2219/00351 B01J2219/00367 B01J2219/00416 B01J2219/00479 B01J2219/00481 B01J2219/00522 B01J2219/00585 B01J2219/00596 B01J2219/00605 B01J2219/0061 B01J2219/00612 B01J2219/00619 B01J2219/00621 B01J2219/00626 B01J2219/00637 B01J2219/00644 B01J2219/00659 B01J2219/00677 B01J2219/00686 B01J2219/00689 B01J2219/00702 B01J2219/00722 B01J2219/0074 B01J2219/00743 B01L3/5085 B01L3/50857 B82Y30/00 C12N15/1037 C12N15/1055 C12Q1/02 C40B40/02 C40B40/06 C40B60/14 G01N33/5005

European: B01J19/00C B01L3/5085 B01L3/50857 B82Y30/00 C12N15/10C1 C12N15/10C6 C12Q1/02 C40B40/02 G01N33/50D G01N33/569 L01J219/00C10B16 L01J219/00C10B16B L01J219/00C10B2 L01J219/00C2D L01J219/00C2D14B L01J219/00C2D4B L01J219/00C2J L01J219/00C2J2 L01J219/00C2L7F2 L01J219/00C4B L01J219/00C4H L01J219/00C4L12 L01J219/00C4L2 L01J219/00C4L24 L01J219/00C4L2D L01J219/00C4L2F L01J219/00C4L2H2H L01J219/00C4L2H4 L01J219/00C4L2J2 L01J219/00C4L2L4 L01J219/00C4L3D L01J219/00C6F L01J219/00C6F2 L01J219/00C6P L01L3/50857 M40B40/06 M40B60/14

PatBase - WO05010169_A2

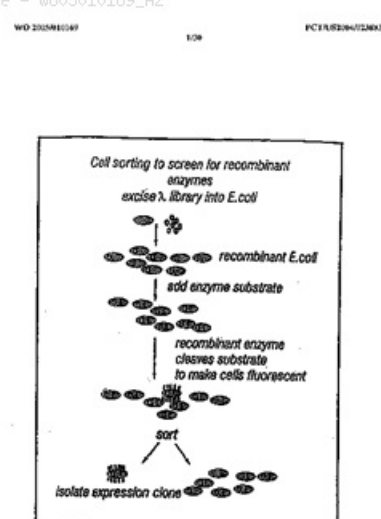


FIGURE 1

Family:

Publication number	Publication date	Application number	Application date
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WO05010169 A2	20050203	WO2004US23883	20040723	
WO05010169 A3	20090430	WO2004US23883	20040723	

Priority:

US20030626477 20030723

Probable Assignee: DIVERSA CORP

Assignee(s): (std): DIVERSA CORP ; KELLER MARTIN ; ZENGLER KARSTEN

Inventor(s): (std): KELLER MARTIN ; ZENGLER KARSTEN

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
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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

Search history

Search PN=(WO2016179009) (Results 1)

1:

Search [SP]: 1. a method of cleaning a container said method comprising: a. providing a containerb. cleaning the container with an acidic detergent composition at 30-60 degrees centigrade for 1-15 minutes using a bottlewashing apparatus, wherein the detergent composition having, based on the total weight of the composition: i. 1-60 weight percent of an acid,ii. 1-60 weight percent of a solvent, andiii. 1-10 weight percent of a nonionic surfactantc. rinsing the container with waterd. cleaning the container with caustic solution at 30-60 degrees centigrade for 0.5-15 minutes ande. rinsing the container with potable water. 2. the method of claim 1, wherein the acid is selected from the group consisting of a phosphoric acid, a sulfuric acid, a sulfamic acid, a methylsulfamic acid, a hydrochloric acid, a hydrobromic acid, a hydrofluoric acid, a nitric acid, a hydroxyacetic (glycolic) acid, a citric acid, a lactic acid, a formic acid, an acetic acid, a propionic acid, a butyric acid, a valeric acid, a caproic acid, a gluconic acid, an itaconic acid, a trichloroacetic acid, an urea hydrochloride acid, a benzoic acid, an oxalic acid, a maleic acid, a fumaric acid, an adipic acid, a terephthalic peroxyacetic acid, a peroxyoctanoic acid, and any combination thereof. 3. the method of claim 1, wherein the acidic detergent composition further comprising 1-5 weight percent of an additive based on the total weight of the composition, the additive selected from the group consisting of a sequestrant, a surfactant, a buffer, a biocide, and any combination thereof. 4. the method of claim 1, wherein a ph of the acidic detergent composition is 6.0 or less. 5. the method of claim 1, wherein the solvent comprising one or any combination of water, a butyl diglycol, a diglycol, ethanol, an isopropanol, a 1,2-propylene glycol, and a butylene glycol. 6. the method of claim 1, wherein the nonionic surfactant is selected from the group consisting of a polyalkene oxide, a polyalkylene oxide, an alkanoamide, an alkyl polyethylene oxide, an alkylphenol polyethylene oxide, a polyoxyethylenated alkyl amine oxide, a polyoxyethylenated polyoxypropylene glycol, an alkyl polyglucoside, an alkyl carboxylic acid esters, a polyoxyethylenated mercaptan, an alkyl diglyceride, a polyoxyethylenated alkanolamine, a polyalkoxylated amide, a tertiary acetylenic glycol, a t-octylphenoxy polyethoxyethanol, a polyoxyethylenesorbitan monolaurate, a polyoxyethylenesorbitan monolaurate, a polyoxyethylenesorbitan monopalmitate, a polyoxyethylenesorbitan monostearate, a polyoxyethylenesorbitan monooleate, a polyoxyethylenesorbitan monotrioleate, an (octylphenoxy) polyethoxyethanol, a triethyleneglycol monolauryl ether, a sorbitan monolaurate, and any combination thereof. 7. the method of claim 1, wherein the caustic solution is selected from the group consisting of naoh, lioh, koh, nh4oh, mg(oh)2, ca(oh)2, and any combination thereof. 8. the method of claim 1, wherein the caustic solution comprises at least one additive selected from the group consisting of edta, egta, nta, dtpa, heida, ids, mgda, glida, gluda, a gluconic acid and/or a gluconate, 2,2'-bipyridyl, phosphonic acid, a complex phosphate, a phosphonate, and any mixture and salt thereof. 9. the method of claim 1, further comprising at least one additional cleaning or pre-rinsing step. 10. the method of claim 1, wherein said container is a container selected from the group comprising glassware and refillable pet. 11. the method of claim 1, wherein: a. the caustic solution comprising 1-4 weight percent of a caustic comprising 0.2-0.8 weight percent additive, based on the total weight of the caustic solution andb. the acidic detergent composition comprising 1-5 weight percent of an acid, based on the total weight of the acid detergent composition. 12. a detergent for use in a bottlewashing apparatus comprising: a. an acid-based detergent having, based on the total weight of the composition: i. 1-60 weight percent of an acid,ii. 1-60 weight percent of a solvent, andiii. 1-10 weight percent of a nonionic surfactant,wherein a ph of the acid-based detergent is less than 6 andb. a caustic-based detergent,wherein a ph of the caustic-based detergent is greater than 13. 13. the detergent of claim 12, wherein the acid is selected from the group consisting of a phosphoric acid, a sulfuric acid, a sulfamic acid, a methylsulfamic acid, a hydrochloric acid, a hydrobromic acid, a hydrofluoric acid, a nitric acid, a hydroxyacetic (glycolic) acid, a citric acid, a lactic acid, a formic acid, an acetic acid, a propionic acid, a butyric acid, a valeric acid, a caproic acid, a gluconic acid, an itaconic acid, a trichloroacetic acid, an urea hydrochloride acid, a benzoic acid, an oxalic acid, a maleic acid, a fumaric acid, an adipic acid, a terephthalic peroxyacetic acid, a peroxyoctanoic acid, and any combination thereof. 14. the detergent of claim 12, wherein the acid-based detergent further comprising 1-5 weight percent of an additive based on the total weight of the composition, the additive selected from the group consisting of a sequestrant, a surfactant, a buffer, a biocide, and any combination thereof. 15. the detergent of claim 12, wherein a ph of the acidic detergent composition is 6.0 or less. 16. the detergent of claim 12, wherein the solvent comprising any one or combination of water, a butyl diglycol, a diglycol, ethanol, an isopropanol, a 1,2-propylene glycol, and a butylene glycol. 17. the detergent of claim 12, wherein the nonionic surfactant is selected from the group consisting of a polyalkene oxide, a polyalkylene oxide, an alkanoamide, an alkyl polyethylene oxide, an alkylphenol polyethylene oxide, a polyoxyethylenated alkyl amine oxide, a polyoxyethylenated polyoxypropylene glycol, an alkyl polyglucoside, an alkyl carboxylic acid esters, a polyoxyethylenated mercaptan, an alkyl diglyceride, a polyoxyethylenated alkanolamine, a polyalkoxylated amide, a tertiary acetylenic glycol, a t-octylphenoxy polyethoxyethanol, a polyoxyethylenesorbitan monolaurate, a polyoxyethylenesorbitan monolaurate, a polyoxyethylenesorbitan monopalmitate, a polyoxyethylenesorbitan monostearate, a polyoxyethylenesorbitan monooleate, a polyoxyethylenesorbitan monotrioleate, an (octylphenoxy) polyethoxyethanol, a triethyleneglycol monolauryl ether, a sorbitan monolaurate, and any combination thereof. 18. the detergent of claim 12, wherein the caustic solution is selected from the group consisting of naoh, lioh, koh, nh4oh, mg(oh)2, ca(oh)2, and any combination thereof. 19. the detergent of claim 12, wherein the caustic solution comprises at least one additive selected from the group consisting of edta, egta, nta, dtpa, heida, ids, mgda, glida, gluda, a gluconic acid and/or a gluconate, 2,2'-bipyridyl, phosphonic acid, a complex phosphate, a phosphonate, and any mixture and salt thereof. 20. a detergent for use in a bottlewashing apparatus comprising: a. an acid-based detergent having, based on the total weight of the composition: i. 1-60 weight percent of an acid, the acid is selected from the group consisting of a phosphoric acid, a sulfuric acid, a sulfamic acid, a methylsulfamic acid, a hydrochloric acid, a hydrobromic acid, a hydrofluoric acid, a nitric acid, a hydroxyacetic (glycolic) acid, a citric acid, a lactic acid, a formic acid, an acetic acid, a propionic acid, a butyric acid, a valeric acid, a caproic acid, a gluconic acid, an itaconic acid, a trichloroacetic acid, an urea fumaric acid, an adipic acid, a terephthalic peroxyacetic acid, a peroxyoctanoic acid, and any combination thereof,ii. 1-60 weight percent of a solvent, the solvent comprising any one or combination of water, a butyl diglycol, a diglycol, ethanol, an isopropanol, a 1,2-propylene glycol, and a butylene glycol, andiii. 1-10 weight percent of a nonionic surfactant, the nonionic surfactant is selected from the group consisting of a polyalkene oxide, a polyalkylene oxide, an alkanoamide, an alkyl polyethylene oxide, an alkylphenol polyethylene oxide, a polyoxyethylenated alkyl amine oxide, a polyoxyethylenated polyoxypropylene glycol, an alkyl polyglucoside, an alkyl carboxylic acid esters, a polyoxyethylenated mercaptan, an alkyl diglyceride, a polyoxyethylenated alkanolamine, a polyalkoxylated amide, a tertiary acetylenic glycol, a t-octylphenoxy polyethoxyethanol, a polyoxyethylenesorbitan monolaurate, a polyoxyethylenesorbitan monolaurate, a polyoxyethylenesorbitan monopalmitate, a polyoxyethylenesorbitan monostearate, a polyoxyethylenesorbitan monooleate, a polyoxyethylenesorbitan monotrioleate, an (octylphenoxy) polyethoxyethanol, a triethyleneglycol monolauryl ether, a sorbitan monolaurate, and any combination thereof, wherein a ph of the acid-based detergent is less than 6 andb. a caustic-based detergent, the caustic solution is selected from the group consisting of naoh, lioh, koh, nh4oh, mg(oh)2, ca(oh)2, and any combination thereofwherein a ph of the caustic-based detergent is greater than 13. (Results 8)

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1) Family number: 32093341 (US2004173244A)

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Title: CLEANING METHOD FOR REMOVING STARCH

Abstract: The described cleaning process comprises an alkaline and an acid cleaning step as well as one or more additional alkaline and/or acid cleaning steps, in particular for the mechanical cleaning of crockery in commercial dishwashers, in which primarily deposits of starch can be removed exceptionally well.

Classifications:

International (IPC 8-9): A47L15/00 A47L15/16 A47L15/42 A47L15/44
B08B3/00 B08B3/02 B08B3/04 B08B3/08 B08B7/00 B08B7/04
B08B9/20 C11D11/00 C11D17/00 C11D17/04 C11D3/00 C11D3/02
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C11D7/34 C11D7/36 (Advanced/Invention);

A47L15/42 B08B3/08 C11D11/00 C11D17/00 C11D3/02 C11D3/20 C11D7/02 C11D7/22 (Core/Invention)

International (IPC 1-7): A47L15/00 B08B3/00 B08B3/02 B08B3/04 B08B3/08 B08B7/00 C11D11/00 C11D17/00 C11D3/00 C11D3/02 C11D3/2 C11D3/20 C11D3/36 C11D7/00 C11D7/06 C11D7/06 C11D7/08 C11D7/08 C11D7/26 C11D7/34 C11D7/36

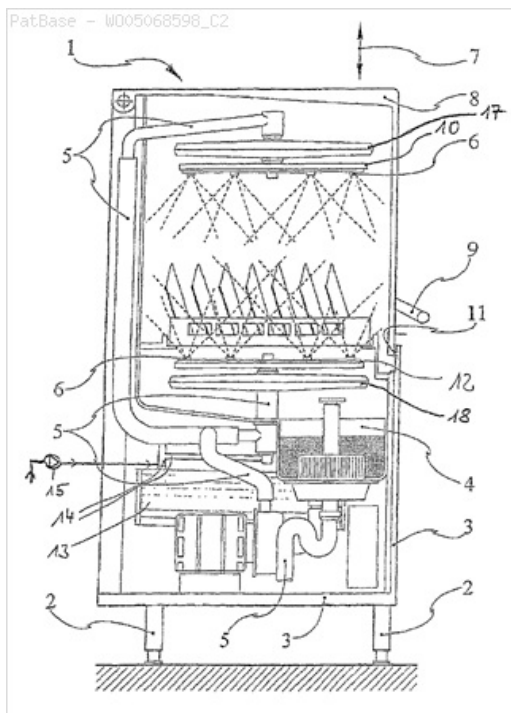
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European: A47L15/00A C11D11/00B2D C11D11/00B8 C11D17/00H8T8 C11D17/04B2 C11D3/04A C11D3/04H C11D3/20E C11D7/06 C11D7/08 C11D7/26E C11D7/34 C11D7/36 K47L15/00E4 K47L15/00E6 K47L601/20

US: 134/25.1 134/25.2 134/25.200P 134/26 134/27 134/27S 134/28 134/28S 134/29 134/29S 134/30 134/34 134/56D 134/57D 134/58 134/58.00DS 134/58D 134/99.2

JP F-Term: 3B082 3B082/BD01 3B201 3B201/AA46 3B201/BB11 3B201/BB22 3B201/BB82 3B201/BB96 3B201/CB01 3B201/CC01 4H003 4H003/BA12 4H003/DA19 4H003/DB01 4H003/DC02 4H003/EA03 4H003/EA04 4H003/EA21 4H003/EB07 4H003/EB08 4H003/EB22 4H003/EB24 4H003/EB30 4H003/ED02 4H003/FA28

JP F-Index: A47L15/00/Z A47L15/42/D B08B3/08/Z C11D17/00 C11D7/06 C11D7/08 C11D7/26 C11D7/34 C11D7/36



Family:

Publication number	Publication date	Application number	Application date
AT277157 E	20041015	AT20020743135T	20020531
AT362807 E	20070615	AT20030772309T	20031106
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BRPI0316171 A	20050927	BR2003PI16171	20031106
CA2448548 AA	20031030	CA20022448548	20020531
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DE10127919 A1	20021219	DE20011027919	20010608
DE10257391 A1	20040624	DE20021057391	20021206
DE50201125 D1	20041028	DE20025001125	20020531
DE60314007 D1	20070705	DE20036014007	20031106
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EP1392807 A1	20040303	EP20020743135	20020531
EP1392807 B1	20040922	EP20020743135	20020531
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ES2230503 T3	20050501	ES20020743135T	20020531
JP2004533301 T2	20041104	JP20030503746T	20020531
JP4202910 B2	20081224	JP20030503746T	20020531
PL201167 B1	20090331	PL20020367269	20020531
PL367269 A1	20050221	PL20020367269	20020531
US2004173244 AA	20040909	US20030479669	20031204
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US2011308553 AA	20111222	US20110096151	20110520
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WO04052564 A1	20040624	WO2003EP12366	20031106
WO05068598 A1	20050728	WO2004US34477	20041018
WO05068598 C2	20050901	WO2004US34477	20041018

Priority:

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WO2003EP12366	20031106	WO2003EP12923	20031119	US20030740371	20031218
US20110096151	20110520	US20120527487	20120619		

Probable Assignee: ECOLAB USA INC

Assignee(s): (std): STROTHOFF WERNER ; TROLL WINFRIED ; MAIER HELMUT ; FURBER JOHN ; MASER BRYAN ; FAUBEL HEIKO ; MASER BRYAN A ; FURBER JOHN P ; ECOLAB USA INC ; BESSE MICHAEL ; BESSE MICHAEL E ; ECOLAB GMBH AND CO OHG ; ECOLAB INC

Assignee(s): ECOLAB INC ST PAUL

Inventor(s): (std): BESSE MICHAEL ; FURBER JOHN ; HEIKO FAUBEL ; HELMUT MAIER ; MAIER HELMUT ; MASER BRYAN ; STROTHOFF WERNER ; TROLL WINFRIED ; WERNER STROTHOFF ; WINFRIED TROLL ; MASER BRYAN A ;

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PATENTANWALTE PARTNERSCHAFT MBB WERKPATENT; AOKI ATSUSHI; ISHIDA TAKASHI; KOGA
TETSUJI; NISHIYAMA MASAYA; 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
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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

2) Family number: 31627000 (US6247478B) © PatBase

Title: Cleaning method for polyethylene terephthalate containers

Abstract: A method for cleaning polyethylene terephthalate containers including contacting the PET container with an alkaline wash solution having a temperature ranging of less than about 60 degrees centigrade is disclosed. The alkaline wash solution is formulated from a first concentrate, a second concentrate, an alkalinity source, and a balance of water. The first concentrate preferably has a first nonionic surfactant, a first builder, and acid in an amount effect to provide a phase stable solution. The second concentrate preferably has a second nonionic surfactant and a second builder. The first and second concentrate are present in the wash solution in a concentration ranging from about 0.3 weight percent to 2.0 weight percent. Preferably, the first nonionic surfactant has a cloud point ranging from about 5 degrees centigrade to 60 degrees centigrade

Classifications:

International (ipc 8-9): B08B3/00 B08B3/04 B08B3/08 B08B3/10 B08B9/08 C11D1/24 C11D1/66 C11D1/72 C11D11/00 C11D17/00 C11D17/08 C11D3/02 C11D3/04 C11D3/20 C11D3/33 C11D3/34 C11D3/36 C11D3/60 C11D7/00 (Advanced/Invention);

B08B3/08 B08B9/08 C11D17/08 C11D3/04 (Advanced/Non-invention);

B08B3/04 B08B3/08 B08B3/10 B08B9/08 C11D1/02 C11D1/66 C11D11/00 C11D17/08 C11D3/02 C11D3/04 C11D3/20

C11D3/26 C11D3/34 C11D3/36 C11D3/60 (Core/Invention)

International (ipc 1-7): A23L3/00 B08B3/04 B08B3/08 B08B3/10 B08B9/08 C11D1/24 C11D17/08 C11D3/04 C11D3/075 C11D3/20 C11D3/33 C11D3/34 C11D3/36 C11D3/60 C11D7/00

CPC: C11D1/24 C11D1/66 C11D3/042 C11D3/044 C11D3/2075 C11D3/3409 C11D3/3418 C11D3/361 C11D11/0035

European: C11D1/24 C11D1/66 C11D11/00B2D4 C11D3/04A C11D3/04H C11D3/20E C11D3/34B C11D3/36B M11D3/34A

US: 134/22.1 134/22.19 134/25.1 134/25.2 134/25.4 134/35 510/219 510/243 510/405 510/421 510/434 510/435 510/436 510/477 510/480

JP F-Term: 3B116 3B116/AA22 3B116/BB01 3B116/BB82 3B116/CA01 3B116/CC01 3B201 3B201/AA21 3B201/BB01 3B201/BB82 3B201/BB92 3B201/BB93 3B201/BB94 3B201/BB96 4H003 4H003/AC05 4H003/AC08 4H003/AC23 4H003/AC24 4H003/BA12 4H003/CA14 4H003/CA16 4H003/DA12 4H003/DB01 4H003/DC01 4H003/DC02 4H003/EA04 4H003/EA21 4H003/EB06 4H003/EB07 4H003/EB08 4H003/EB16 4H003/EB22 4H003/EB24 4H003/FA13 4H003/FA15 4H003/FA28 4H003/FA32

JP F-Index: B08B3/08/A B08B9/08 C11D1/72 C11D17/00 C11D17/08 C11D3/04 C11D3/20 C11D3/33 C11D3/34

Family:

Publication number	Publication date	Application number	Application date
AR007642 AA	19991110	AR1997P102845	19970627
AU199710521 A1	19980610	AU19970010521	19961115
AU734264 B2	20010607	AU19970010521	19961115
BRPI9612785 A	20010807	BR1996PI12785	19961115
CA2271819 AA	19990513	CA19962271819	19961115
CA2271819 C	20070130	CA19962271819	19961115
CN1222598 C	20051012	CN19961080554	19961115
CN1242039 A	20000119	CN19961080554	19961115
DE69632836 D1	20040805	DE19966032836	19961115
DE69632836 T2	20050721	DE19966032836T	19961115
EP0946701 A1	19991006	EP19960941351	19961115
EP0946701 A4	20000308	EP19960941351	19961115
EP0946701 B1	20040630	EP19960941351	19961115
JP2001504535 T2	20010403	JP19980523593T	19961115
JP4163754 B2	20081008	JP19980523593T	19961115
NZ335914 A	19991028	NZ19960335914	19961115
PL188662 B1	20050331	PL19960333461	19961115
PL333461 A1	19991220	PL19960333461	19961115
TW546379 B	20030811	TW19970108811	19970624
US6247478 BA	20010619	US19990297993	19990707
US6554005 BA	20030429	US20000668972	20000925
WO9822566 A1	19980528	WO1996US18261	19961115
ZA9705113 A	19981210	ZA19970005113	19970610

Priority:

BR1996PI12785 19961115	CN19961080554 19961115	NZ19960335914 19961115
PL19960333461 19961115	US19960018261 19961115	WO1996US18261 19961115
US19990297993 19990707	US20000668972 20000925	

Probable Assignee: ECOLAB INC

Assignee(s): (std): CORDS BRUCE R ; ECOLAB INC ; WICHMANN GERALD K ; WEI GUANG JONG JASON ; MCSHERRY DAVID D ; HERDT BRENDON L ; VALENCIA ARTURO

Assignee(s): ECOLAB INC ST PAUL ; HERDT BRANDON L

Inventor(s): (std): CORDS B R ; HERDT BRENDON L AND ; WEI G J JASON ; WICHMANN G K ; WICHMANN K ; WEI JASON ; MCSHERRY DAVID ; MCSHERRY D ; HERDT L ; HERDT BRANDON L ; GUANG JONG JASON WEI ; GERALD K WICHMANN ; G K WICHMANN ; G J JASON WEI ; DAVID D MCSHERRY ; CORDS R ; BRUCE R CORDS ; BRENDON L HERDT ; BRANDON L HERDT ; B R CORDS ; ARTURO VALENCIA ; WEI GUANG JONG J ; WICHMANN GERALD K ; WEI GUANG JONG JASON ; VALENCIA ARTURO ; MCSHERRY DAVID D ; HERDT BRENDON L ; CORDS BRUCE R

Inventor(s): DAVID MCSHERRY

Agent(s): GRIFFITH HACK; GOUDREAU GAGE DUBUC; LAVERY DE BILLY LLP

Designated states: AL AM AT AU AZ BA BB BE BG BR BY CA CH CN CU CZ DE DK EE ES FI FR GB GE GR HU IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI

3) Family number: 33021286 (US2006111267A)

© PatBase

Title: METHOD OF CLEANING CONTAINERS FOR RECYCLING

Abstract: A method of cleaning recycled glass containers comprising exposing a container to a caustic solution and rinsing the container with a rinse solution is taught herein. The rinse solution comprises a chelating agent and optionally an acid, or an acid that can function as a chelator. Glass containers cleaned by the method are also described.

Classifications:

International (IPC 8-9): B08B3/08 B08B9/08 B65D13/02 C03C23/00 C11D11/00 C11D3/33 C11D3/37 C11D7/04 C11D7/08 C11D7/16 C11D7/26 C11D7/32 C11D7/36 (Advanced/Invention);

C11D11/00 C11D7/26 C11D7/32 C11D7/36 (Advanced/Non-invention);

B08B3/08 B08B9/08 B65D13/00 C03C23/00 C11D11/00 C11D3/26 C11D3/37 C11D7/02 C11D7/22 (Core/Invention); C03C C11D (Subclass/Invention)

International (IPC 1-7): C03C23/00 C03C23/00 C11D11/00 C11D11/00 C11D7/16 C11D7/16 C11D7/26 C11D7/26 C11D7/32 C11D7/32 C11D7/36 C11D7/36

CPC: Y10T428/131 C03C23/0075 C11D7/16 C11D7/265 C11D7/3245 C11D7/3254 C11D7/3281 C11D11/0035 C11D7/36

European: C03C23/00F C11D11/00B2D4 C11D7/16 C11D7/26E C11D7/32E C11D7/32F C11D7/32K C11D7/36

US: 428/34.4 428/34.400P 510/514 510/514S

JP F-Term: 3B116 3B116/AA23 3B201 3B201/AA23 3B201/BB91 3B201/BB96 4H003 4H003/BA12 4H003/DA05 4H003/EA08 4H003/EA21 4H003/EB07 4H003/EB08 4H003/EB12 4H003/EB13 4H003/EB15 4H003/EB16 4H003/EB24 4H003/FA07 4H003/FA23

JP F-Index: B08B3/08/Z B08B9/08 C11D3/33 C11D7/04 C11D7/08 C11D7/16 C11D7/26 C11D7/32 C11D7/36

Family:

Publication number	Publication date	Application number	Application date
AR051419 AA	20070110	AR2005P104613	20051103
AT455166 E	20100115	AT20050821031T	20051102
AU2005305095 AA	20060518	AU20050305095	20051102
AU2005305095 BB	20110714	AU20050305095	20051102
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CN101048488 A	20071003	CN200580036837	20051102
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CN101659521 B	20130710	CN200910173532	20051102
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EP1824958 B1	20100113	EP20050821031	20051102
ES2356347 T3	20110407	ES20050821031T	20051102
IN01873KN2007 A	20070810	IN2007KN01873	20070525
IN265905 B	20150327	IN2007KN01873	20070525
JP2008519144 T2	20080605	JP20070540392T	20051102
JP5345321 B2	20131120	JP20070540392T	20051102
KR101142601 B1	20120503	KR20077010000	20051102
KR20070073856 A	20070710	KR20077010000	20051102
MX2007005085 A1	20070625	MX20070005085	20051102
US2006111267 AA	20060525	US20050265315	20051102
US2008069986 AA	20080320	US20070942605	20071119
WO06052578 A2	20060518	WO2005US39598	20051102
WO06052578 A3	20060810	WO2005US39598	20051102
ZA200703570 A	20080827	ZA20070003570	20051102

Priority:

US20040624616 20041103 US20040624616P 20041103 WO2005US39598 20051102
US20050265315 20051102 US20070942605 20071119

Probable Assignee: JOHNSON DIVERSEY INC

Assignee(s): (std): CLIFTON MARK V ; DIVERSEY INC ; JOHNSON DIVERSEY INC ; MARLOW BERT R ; MEHTA ANISH ; SPERLING BARRY D ; JOHNSON DIVERSEY INC

Assignee(s): DIVERSEY INC WAS KNOWN AS JOHNSON DIVERSEY INC.. ; CITIBANK NA ADMINISTRATIVE AGENT AS

Inventor(s): (std): CLIFTON MARK V ; MARLOW BERT R ; MEHTA ANISH ; SPERLING BARRY D ; SPERLING BARRY ; MARLOW BERT ; CLIFTON MARK V MARLOW BERT R M ; ANISH MEHTA

Inventor(s): CLIFTON MARK ; BERT R MARLOW ; BARRY D SPERLING ; MARK V CLIFTON

Agent(s): SPRUSON AND FERGUSON; FINLAYSON AND SINGLEHURST; VAN HEUVEL MARGARETHA; FUJINO IKUO; TAKANASHI NORIMICHI; KATO NOBUAKI; OCHI TAKAO; OKABE MASAO; USUI SHINICHI; OKABE YUZURU; SC JOHNSON COMMERCIAL MARKETS INC; JOHNSON DIVERSEY 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 KM KN KP KR KZ LC LI 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

4) Family number: 1332486 (US4181623A)

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Title: Cleaning compositions

Abstract: A composition suitable for cleaning glass or glazed ceramic articles is described which comprises, by weight, 0.05 percent to 0.5 percent hydrofluoric acid or an acid salt thereof, a second water-soluble acid selected from the group consisting of 0.02 percent to 4 percent of acetic acid, hydroxy acetic acid, propionic acid and lactic acid and 0.05 percent to 0.8 percent of a non-oxidizing mineral acid other than hydrofluoric acid, 0.01 to 0.5 percent of a water-soluble anionic or nonionic organic detergent, 0 percent to 10 percent of a solvent selected from the group consisting of C1-C4 alkyl ethers of

ethylene glycol, C1-C4 alcohols and C2-C4 ketones and the balance water. Such compositions reduce water spots and stains and leave a shiny finish.

Classifications:

International (IPC 8-9): C11D1/00 C11D3/00 C11D3/02 C11D3/43 C11D7/00 C11D7/08 (Advanced/Invention); C11D3/02 C11D3/43 C11D7/02 (Core/Invention)

International (IPC 1-7): A47L1/00 C11D1/00 C11D1/02 C11D1/28 C11D1/29 C11D1/66 C11D1/72 C11D1/83 C11D10/02 C11D3/00 C11D3/04 C11D3/065 C11D3/075 C11D3/20 C11D3/43 C11D3/44 C11D3/60 C11D7/00 C11D7/08 C11D7/50

CPC: C11D3/042 C11D3/2075 C11D3/43

European: C11D3/04A C11D3/20E C11D3/43

US: 134/3 134/40 252/143 252/79.1 252/79.3 510/108 510/182 510/238 510/421 510/432

Family:

Publication number	Publication date	Application number	Application date
AU197833589 A1	19790830	AU19780033589	19790224
AU521767 B2	19820429	AU19780033589	19780224
BE864914 A	19780703	BE19780185947	19780315
CA1092004 A1	19801223	CA19780298943	19780315
FR2384018 A1	19781013	FR19780007172	19780313
FR2384018 B1	19830422	FR19780007172	19780313
GB1571438 A	19800716	GB19770010881	19770315
MY8300074 A	19831231	MY19830000074	19831230
US4181623 A	19800101	US19780886982	19780315

Priority:

GB19770010881 19770315 CA19780298943 19780315

Probable Assignee: COLGATE PALMOLIVE CO

Assignee(s): (std): COLGATE PALMOLIVE CO

Assignee(s): COLGATE PALMOLIVE COMPANY ; COLGATE PALMOLIVE CY ; DILLARSTONE ALAN ; STRAW ALAN ; COLGATE PALMOLIVE

Inventor(s): (std): DILLARSTONE ALAN ; STRAW ALAN

Inventor(s): STRAW A ; ALAN DILLARSTONE ; ALAN STRAW

Agent(s): RI; FB RICE PTY LTD; SMART AND BIGGAR

5) Family number: 20479424 (WO9725403A1)

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Title: PROCESS FOR CLEANING AND DISINFECTING OF MILKING PLANTS

Abstract: The invention relates to a process for cleaning and disinfecting of milking plants. The milking plant is cleaned at least once a week with a non-disinfecting alkaline cleaning agent and with an acidic cleaning agent which contains, as disinfecting constituents, anionic surfactants, fatty acids, alkyl phosphonic acids and/or ether carboxylic acids.

Classifications:

International (IPC 8-9): A01N25/30 A01N57/20 A23C7/02 C11D11/00 C11D3/48 C11D7/06 C11D7/08 (Advanced/Invention); A01N25/30 A01N57/00 A23C7/00 C11D11/00 C11D3/48 C11D7/02 (Core/Invention)

International (IPC 1-7): A01J7/02 A01N37/02 A23C7/02 C11D1/83 C11D3/48

CPC: C11D11/0064 C11D3/48 A01J7/022 A01N25/30 A01N57/20 C11D7/06 C11D7/08 C11D11/0041

European: A01J7/02 A01J7/02C A01N25/30 A01N57/20 C11D11/00B2D6 C11D3/48 C11D7/06 C11D7/08

Family:

Publication number	Publication date	Application number	Application date
AT208418 E	20011115	AT19960944622T	19961220
AU199713043 A1	19970801	AU19970013043	19961220
DE19600475 A1	19970710	DE19961000475	19960109
DE59608166 D1	20011213	DE19965008166	19961220
DK0879276 T3	20020218	DK19960944622T	19961220
EP0879276 A1	19981125	EP19960944622	19961220
EP0879276 B1	20011107	EP19960944622	19961220
ES2167618 T3	20020516	ES19960944622T	19961220
WO9725403 A1	19970717	WO1996EP05783	19961220

Priority:

DE19961000475 19960109 DE19965008166 19961220 WO1996EP05783 19961220

Probable Assignee: HENKEL ECOLAB GMBH AND CO OHG

Assignee(s): (std): BRAGULLA SIEGFRIED ; HENKEL ECOLAB AND CO OHG ; HENKEL ECOLAB GMBH AND CO OHG ; LOOS GERARD DE

Assignee(s): HENKEL ECOLAB GMBH AND CO OHG 40589 DUESSELDORF DE ; DE LOOS GERARD

Inventor(s): (std): LOOS GERARD DE ; DE LOOS GERARD ; BRAGULLA SIEGFRIED

Inventor(s): BRAGULLA SIEGFRIED 40789 MONHEIM DE ; LOOS GERARD DE HILLEGOM NL

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

6) Family number: 32508792 (US2005282722A)

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Title: TWO PART CLEANING COMPOSITION

Abstract: A two part cleaning composition, apparatus and method of use is described. One part of the cleaning composition contains an oxidizing agent. The two part cleaning composition provides for shelf stability during storage by controlling the pH solution at a different level in each of the first part and the second part of the composition. At a point of use of the cleaning composition, the first part and the second part are combined resulting in an automatic adjustment of the pH level through admixture of the first part and the second part to provide a pH level for the combined composition to achieve optimum cleaning of a surface with the composition. One part of the cleaning composition is maintained at a pH of from about 4 to

about 5 and a second part of the composition is maintained at a pH of greater than 10. The pH of the combined composition at the point of use is from 7 to 12, preferably from about 8 to about 11. Surfaces suitable for treatment by the cleaning composition include hard surfaces, e.g. bathroom and kitchen surfaces, and soft surfaces, e.g. carpet.

Classifications:

International (IPC 8-9): B65D81/32 C11D1/75 C11D17/04 C11D3/02 C11D3/20 C11D3/39 C11D3/395 (Advanced/Invention); C11D1/14 C11D1/29 (Advanced/Non-invention); B65D81/32 C11D1/75 C11D17/04 C11D3/02 C11D3/20 C11D3/39 C11D3/395 (Core/Invention); C11D1/02 (Core/Non-invention)

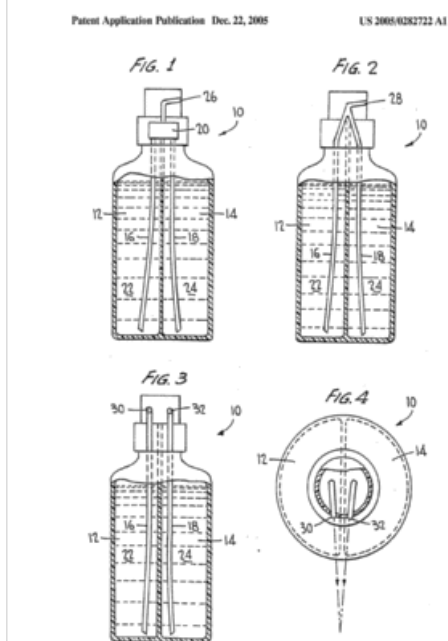
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CPC: B65D81/3283 C11D1/146 C11D1/29 C11D1/75 C11D3/044 C11D3/2037 C11D3/2068 C11D3/2086 C11D3/3947 C11D3/3956 C11D17/041

European: B65D81/32L C11D1/75 C11D17/04B C11D3/04H C11D3/20B1T C11D3/20C C11D3/20E5 C11D3/395H C11D3/39H M11D1/14D M11D1/29

US: 510/302

PatBase - US2005282722_AA



Family:

Publication number	Publication date	Application number	Application date
US2005282722 AA	20051222	US20040869748	20040616
WO06007371 A1	20060119	WO2005US21158	20050615

Priority:

US20040869748 20040616

Probable Assignee: JOHNSON AND SON INC S C

Assignee(s): (std): JOHNSON AND SON INC S C ; MCREYNOLDS KENT B ; SHAER ELIAS H

Assignee(s): S C JOHNSON AND SON INC

Inventor(s): (std): MCREYNOLDS KENT B ; SHAER ELIAS H

Agent(s): SC JOHNSON AND SON 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 KM KP KR KZ LC 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

7) Family number: 55978284 (US2014069466A)

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Title: METHOD OF REDUCING SOIL REDEPOSITION ON A HARD SURFACE USING PHOSPHINOSUCCINIC ACID ADDUCTS

Abstract: Methods employing detergent compositions effective for reducing soil redeposition and accumulation on hard surfaces are disclosed. The detergent compositions employ phosphinosuccinic acid adducts in combination with an alkalinity source and gluconic acid or salts thereof, copolymers of acrylic acid and maleic acids or salts thereof, sodium hypochlorite, sodium dichloroisocyanurate or combinations thereof.

Classifications:

International (IPC 8-9): A01N25/30 A01N37/02 A01N37/16 A01N59/00 A01P1/00 A47L15/42 A61L2/18 B08B3/08 B08B9/20 C11D1/00 C11D1/34 C11D1/66 C11D1/72 C11D1/722 C11D1/83 C11D1/86 C11D11/00 C11D17/00 C11D3/00 C11D3/02 C11D3/04 C11D3/06 C11D3/08 C11D3/10 C11D3/20 C11D3/33 C11D3/36 C11D3/37 C11D3/39 C11D3/48 C11D3/60 C11D7/06 C11D7/12 C11D7/14 C11D7/22 C11D7/36 C23G1/14 (Advanced/Invention)

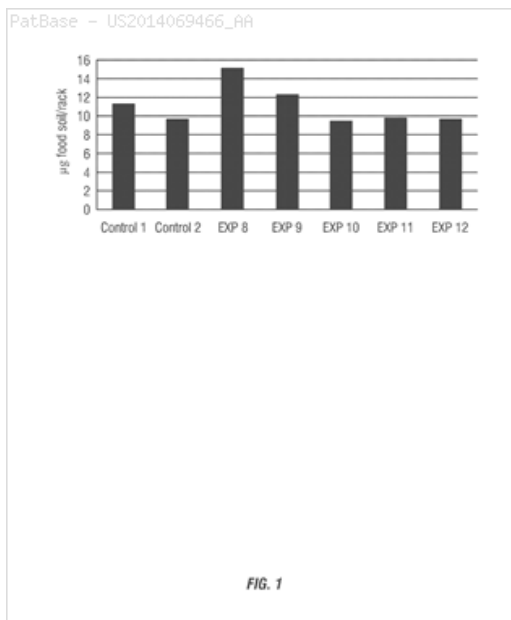
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US: 1/1 134/25.2 134/28 134/42 422/34 424/616 510/108 510/109 510/161 510/220 510/221 510/224 510/225 510/228 510/229 510/234 510/243 510/244 510/245 510/272 510/294 510/298 510/400 510/435 510/445 510/446 510/451 510/469 510/477 510/509 510/511

JP F-Term: 3B201 3B201/AA46 3B201/BB92 3B201/BB94 4H003 4H003/AC06 4H003/AC08 4H003/AC23 4H003/BA12 4H003/DA05 4H003/DA09 4H003/DA12 4H003/DA17 4H003/DC01 4H003/EA15 4H003/EA16 4H003/EA21 4H003/EB24 4H003/EB28 4H003/FA07 4H003/FA28 4K053 4K053/PA01 4K053/QA01 4K053/RA21 4K053/RA27 4K053/RA28 4K053/RA45 4K053/RA66 4K053/SA04 4K053/SA07 3B082 4H003/BA01 4H003/BA09 4H003/BA15 4H003/DA11 4H003/DA13 4H003/DA14 4H003/DA19 4H003/DB04 4H003/EB30 4H003/ED02 4H003/FA21

JP F-Index: B08B3/08/Z C11D1/00 C11D1/66 C11D1/72

C11D1/722 C11D3/04 C11D3/08 C11D3/10 C11D3/36 C11D3/37
C11D7/06 C11D7/12 C11D7/14 C11D7/22 C11D7/36 C23G1/14
A47L15/42/Z C11D3/06



Family:

Publication number	Publication date	Application number	Application date
AU2013315902 AA	20140320	AU20130315902	20130904
AU2013315902 BB	20170209	AU20130315902	20130904
AU2017203073 AA	20170601	AU20170203073	20170509
AU2017203073 BB	20181004	AU20170203073	20170509
BR112015005698 A2	20170704	BR20151105698	20130904
CA2883394 AA	20150227	CA20132883394	20130904
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EP2895586 A1	20150722	EP20130837225	20130904
EP2895586 A4	20160615	EP20130837225	20130904
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EP2986697 A4	20161005	EP20140784618	20140414
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US2014228275 AA	20140814	US20140257527	20140421
US2014235521 AA	20140821	US20140260901	20140424
US2014238445 AA	20140828	US20140268598	20140502
US2014308162 AA	20141016	US20130863001	20130415
US2014378366 AA	20141225	US20140479489	20140908
US2017233684 AA	20170817	US20170581156	20170428
US2017321165 AA	20171109	US20170660469	20170726
US2018251708 AA	20180906	US20180974130	20180508
US8748365 BB	20140610	US20120614150	20120913
US8871699 BB	20141028	US20120614020	20120913
US9023784 BB	20150505	US20130965339	20130813
US9255242 BB	20160209	US20140257527	20140421
US9670434 BB	20170606	US20140479489	20140908
US9752105 BB	20170905	US20140268598	20140502
US9994799 BB	20180612	US20140260901	20140424
WO14042931 A1	20140320	WO2013US58016	20130904
WO14042932 A1	20140320	WO2013US58022	20130904
WO14172280 A1	20141023	WO2014US34011	20140414

Priority:

US20120614020	20120913	US20120614150	20120913	US20130863001	20130415
US20130965339	20130813	AU20130315902	20130904	JP20150531955T	20130904
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US20170581156	20170428	AU20170203073	20170509	US20170660469	20170726
JP20170182117	20170922	US20180974130	20180508		

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VOORHEES AND SEASE PLC; MCKEE VOORHEES AND SEASE; SORENSSEN ANDREW D

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